1920-BICYCLES-1920

Made of the best materials obtainable at these prices under careful supervision by reliable manufacturers. All bicycles shown are equipped with the finest standard parts and embody the most popular and modern features. **Buy Here.**

"MARATHON"

Frame—1 in. 20 gauge, seamless tubing, flush joints, full lugs and arch rest.
Finish—3 coats cherry red, olive green head and spears.
Mud Guards—Enameled to match frame.
Wheels and Rims—Standard 28 in., 32 spoke front, 36 spoke rear, steel rims.
Tires—26x2½ non-skid, single tube puncture sealing, fully guaranteed.
Fork—Tapered sides, nickeled crown.
Crank Hanger—1 piece, drop forged, oval pattern, 7 in.
Sprocket—Standard 81, 26 tooth front, 9 tooth rear.
Saddle—Leather cushion top, coil spring.
Handle Bar—Nickel plated, 1 in. extension post, moulded leather grips.

1K1417—For Men.	20 in. frame. Atherton coaster brake	Each, $33.75
1K1418— "	22 " " " "	34.00
1K1419—For Women.	20 " " " "	33.00
1K1420— "	22 " " " "	34.00

"Clipper Jr."—Duplicate throughout of our "Marathon" model shown above, except 24x1¾ in. drop frame rear mud and skirt guards; 30 tooth front, 9 tooth rear sprockets, gear 62, 6½ in. crank hanger.

1K1402—For Boys.	16 in. frame. "New Departure" coaster brake	Each, $25.75
1K1403—For "	18 " " " " "	30.00
1K1404—For Girls.	16 " " " " "	30.00
1K1405—For "	18 " " " " "	34.55

Pedals—"Marathon" rat trap, nickel plated.
Hubs—"New Departure" front hub.
Chain—Diamond roller, 3/4x1 in. pitch.
Cones—Lathe turned, full polished.

"SPEEDER SPECIAL"

Frame—1 in. 20 gauge seamless tubing, motorcycle construction frame with graceful curved top bar, reinforced fish tail flush joints.
Finish—Battleship grey and national blue band and spear.
Mud Guards—Enameled, same color as frame, but reversed to add contrast.
Wheels—Standard 28 in., 32 spoke front, 36 spoke rear.
Tires—26x2 in. straight side, non-skid puncture sealing, fully guaranteed.
Fork—Tapered, nickeled crown, nickeled ends.
Gear—Standard 81, 26 tooth front, 9 tooth rear sprocket.
Crank Hanger—1 pc., drop forged oval pattern, 7 in.
Saddle—Nickeled leather top, padded with curled hair, double suspension spring construction.
Pedals—Standard rat trap, nickel plated, ball-bearing.
Hubs—"Atherton" coaster brake, tapped front and rear.
Coaster Brake—"Atherton."
Chain—Diamond roller, 3/4x1 in. pitch.
Pump—Telescope, nickel plated brass, attached with frame clamp.
1K1432—Men's size frame, adjustable to any rider by raising or lowering saddle and handle bars. 1 in crate. Each, **$36.50**

"FLYING MERCURY" BICYCLE

Modified model, lighter in weight but still retains its long service qualities.
Frame—1 in. seamless tubing, reinforced truss drop bar, welded finish joints, drop mast post, motorcycle type.
Finish—Seven coats deep orange baked enamel with blue band.
Mud Guards—Motorcycle type broad side, channel sides over tires.
Wheels—Std.½ in., 32 spoke front, 36 spoke rear.
Rims—Steel lined clincher rims, enameled, extra heavy nickel plated spokes.
Tires—"Juragon" extra heavy "Bull Dog Grip" stitcher, quick detachable automobile type, 28x1½, deep cut crossbar tread, endless inner tubes, non-detachable rims, fully guaranteed.
Fork—Oval crown, tapering sides.
Saddle—Motorcycle type, leather cushion top stuffed with hair, shock-absorbing springs.
Gear—Standard 81, 26 tooth front, 9 tooth rear sprockets.
Handle Bars—Motorcycle type, nickel plated, rubber grips.
Pedals—Motorcycle type, rubber tread, standard ball bearing.
Hubs—"New Departure" front, solid bar nickeled hub.
Coaster Brake—"New Departure."
Stand—Enameled, automatic latching, channel iron.
Chain—Diamond roller, 3/4x1 in. latch.
Crank Hanger—1 pc. drop forged, diamond pattern, 7 in.
Sprocket—26 tooth front, 9 tooth rear.
Pump—Telescope frame pump, nickel plated.
Luggage Carrier—Motorcycle type all steel enameled to match frame.
1K1440—Adjustable front large boy's size to full grown man's size by raising saddle and handle bar. Fully equipped including "New Departure" coaster brake. Each, **$44.50**

GUARANTEE FOR ALL BICYCLES

EVERY part is guaranteed, except tires, for 12 months from date of purchase, against defects in workmanship or materials. Tires are guaranteed for the season in which they are purchased. Tires are not guaranteed against punctures or blowouts. Any parts will be replaced without charge when sent direct to us transportation charges prepaid. Returns must come through the merchant, not the rider. We make no allowance for repairs made locally.

"LIBERTY FLYER"

Military model, light wt., easy running, racy in appearance, well balanced and staunchly built; smart color combination. A big value.

SPECIFICATIONS:

Frame—1 in. 20 gauge seamless tubing, reinforced fish tail fork joints, standard 26 in. frame with 20 in. wheels, suited to a boy to ride, is in all respects standard full size man's model.

Finish—5 coats of forestry green enamel over sanitary undercoat. The head is bottom bent with deep spears.

Wheels and Rims—26 in. standard full size, nickel plated spokes, 38 front, 36 rear wood rims.

Tires—"Congo" non-skid, puncture sealing, fully guaranteed.

Fork—Tapered sides, oval crown.

Crank Hanger—1 piece, drop forged diamond pattern, 7 in.

Gear—Standard 81, 56 tooth front, 8 tooth rear sprocket.

Saddle—Solid leather top, spiral spring suspension shock absorber.

Handle Bar—"Shilly" scout motorcycle type with rubber grips.

Pedals—Standard "Pirate" rubber cushion.

Hubs—"New Departure" solid bar head.

Chain—Diamond roller, 3/4 in. pitch.

Mud Guards—Heritage ship with forestry green center stripes.

Sprocket—32 tooth front, 9 tooth rear.

Pump—Nickel plated brass telescope, attached to pump with clamp.

1K1445—Special drop frame, designed for boys not big enough for man's standard size. Can be ridden by full grown man. Completely equipped with "New Departure" coaster brake. 4 in. crate. Each, **$37.50**

"ROYAL ROADSTER"

Highest quality equipment. Attractively enameled. Cannot be duplicated at this price.

SPECIFICATIONS:

Frame—Arch truss, reinforced fish tail flush joints, 1 in. 20 gauge seamless tubing.

Finish—7 coats of bright Kelly green enameled over fine coat of lead color and one coat pearlescent of pink golden brown.

Wheels—Standard nickel spokes, 28 spoke front, 32 spoke rear, heavy tangent strength 26 to 28 lbs., steel lined clincher aluminum finished rims.

Tires—"Paragon" non-skid, extra heavy tread, automobile clincher type with high grade gum inner tube.

Mud Guards—Enameled to match frame.

Fork—Raised nickeled rib, 2 hole nickeled crown.

Crank Hanger—1 pc., dropped forged, diamond pattern.

Gear—Standard 81, 56 tooth front, 9 tooth rear sprocket.

Pedals—English pattern, ball-bearing, non-slip.

Saddle—Oversize top, steel side plates, coil spring front, double spiral shock absorbing rear springs.

Handle Bar—Wide sweep, fitted with 6 in. motorcycle type molded rubber grips.

Hubs—"New Departure" solid bar front.

Chain—Diamond roller, 3/4 in. pitch.

Pump—Telescope frame, nickel plated brass with clip.

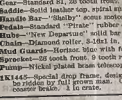
Men's—With "New Departure" coaster brake.

1K1435—30 in. frame, " " " } Each, **$42.50**
1K1436—28 in. " " "
1K1437—26 in. " " "

U. S. FLAGS

This showing includes flags of all popular selling grades. The wide variety of sizes in muslin, cotton, wool and silk gives you a selection that cannot be equaled anywhere, quality and price considered.

U. S. UNMOUNTED FLAGS



Cotton Bunting, Sewed—Sewed stripes, printed stars, canvas heading and metal grommets, unmounted.

1K7264—2x 5 ft. 6 dos in bdl. Doz. $2.75
1K7265—3 " 5 " 1 in bdl. . . Each, 1.25
1K7266—3x 6 " 1 " . . . " 1.85
1K7267—4x10 " 1 " . . . " 2.75

Union Bunting, Sewed—Specially woven cotton fabric, is tougher than wool bunting and will wear longer, sewed stars and stripes, canvas heading with grommets. 1 in pkg.

1K7245—3½x 4 ft. . . . . Doz. $13.50
1K7845—3x 5 " . . . . . Each, $2.00
1K7246—4x 6 " . . . . . " 2.50
1K7247—5x 8 " . . . . . " 3.75
1K7248—6x10 " . . . . . " 4.95
1K7249—8x12 " . . . . . " 7.50
1K7244—10x15 " . . . . . " 10.00

Wool Bunting, Sewed—"Tufex" surface, guaranteed fast color Standard U. S. bunting, red, white and blue field, sewed stripes, "Tufex" hard woven white stripes, a feature which prevents ripping under ordinary conditions. Regulation number of stars. 1 in bdl.

1K7235—3x 5 ft. . Each, $3.25 | 1K7237—6x10 ft. . . Each, $ 9.50
1K7835—4 " . . " 4.00 | 1K7238—7x10 " . . . " 11.65
1K7236—4x 6 " . . " 5.50 | 1K7239—7x12 " . . . " 13.75
1K7836—5x 8 " . . " 6.75 | 1K7240—8x12 " . . . " 16.00
1K7836—5x 8 " . . " 8.25 | 1K7241—8x20 " . . . " 23.50

U. S. PRINTED MUSLIN FLAGS—Mounted

Finest staffs, best Sea Island fine muslin, printed with fast oil colors, mounted on clean smooth staffs.

	Trade No.	Size	Grs. in bdl.	Grs.
1K7200— 2	2	2 x 3	1	$0.85
1K7202— 3	3	3 x 5	1	.95
1K7203— 5	5	4 x 6	1	1.00
1K7204— 6	6	5 x 8	1	1.50
			1 in pkg.	
1K7205— 5½	7	4 x 10½	1	Grs. $4.00
1K7206— 7	8	5 x 12	1	4.75
1K7207— 9	11	6 x 18	1 doz. Doz.	7.00
			1 in pkg.	
1K7208— 7½	12	x23	1 dz. bdl. Dz.	7.15
			1 dz. bdl. Grs.	$17.00
1K7209— 8A	14	x24	1 dz. bdl. Dz.	7.35
			1 dz. bdl. Grs.	$18.50
1K7210— 8	18	x27½	1 dz. bdl. Dz.	7.85
			1 dz. bdl. Grs.	$19.50
1K7211— 9	22	x36	1 dz. bdl. Dz.	8.95
1K7212—10	27	x43	1 "	9.75
1K7214—11½	36	x56	1 "	12.50

U. S. PRINTED COTTON FLAGS—Mounted

Gilt sparhead staffs, soft finish, heavy muslin. Popular for parade and decorative display.

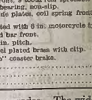
	Doz. in bgr.	Doz.
1K7273—4x6 ft.	6	$ 6.75
1K7274—10x15 "	1	12.50
1K7276—12x17 "	1	17.50
1K7277—18x24 "	1	$22.00
1K7278—24x30 "	1	45.00

U. S. PRINTED SILK FLAGS—Mounted

Gilt spear head varnished staffs, heavy American silk, hemmed stripes.

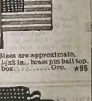
	Doz.
1 doz. in pkg.	
1K7251— 4x 6 in.	$ 2.25
1K7252— 5x 8 "	1.60
1K7253— 7x10 "	2.40
1K7254— 8x12 "	3.50
1K7255— 10x15 "	4.50
1K7256—12x18 "	6.00
1K7257—16x24 "	10.50

U. S. JAP SILK FLAG



NOTE—Sizes are approximate.

1K7801—4x5½ in., brass pin ball top, 1 doz. in box . . . . . Grs. $95



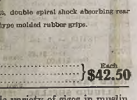
Mounted on black sticks, gilt spear tops.

	Grs.
1K7818—2x3 in. 1 grs. in bx.	$1.65
1K7824—5x7 in. 1 doz. in pkg.	
Grs. $6.75	Doz. $.90
1K7827—10x15 in. 1 grs. in pkg.	
Grs. $28.50	Doz. $2.50

U. S. JAP SILK LAPEL FLAGS

1K7829—1¼ in. bow, 1 grs. in bx. Grs. $1.00
1K7830—1¾ in. bow, 1 grs. in bx. Grs. 1.50
1K7839—1¾ in. bow, ¼ grs. in box. Grs. 2.00
1K7838—1¾ in. bow, ½ grs. in box. Grs. 3.00

COMPLETE U. S. FLAG, POLE AND BRACKET OUTFITS



9x12 ft.—Printed cotton bunting flag, 6 ft. 1 pc. varnished hardwood pole with ball end and halyards, malleable bracket.

1K7371—1 doz. outfits in bdl. Doz. outfits, $17.25

3x5 ft.—Printed cotton bunting flag, 6 ft. 1 pc. pole with ball end and halyards, malleable bracket.

1K7372—Complete in counter box. Each, $1.50

"KODAV" DAVENETTES

Decidedly the most practical styles on the market. While providing extra sleeping accommodations they also form elegant additions to the living room. Fold and unfold easily. Ample room within for 40 lb mattress, blanket and pillows. Equipped with the well known "Sesag" springs. Opens into full size bed. Davenettes measure 52x22 in. when closed and when opened into bed measure in length 6 feet. These are built by one of America's best known makers

Solid oak, seat closed 49x22 in., ht. of back above seat 18½ in., width of arms 4 in., width of front post 4 in. Crated, 300 lbs.

Imit. Brown Spanish Leather—	Each
P4260—Golden	T. O.
P4271—Fumed	

Moleskin Brown Spanish Leather—	Each
P4257—Golden	$46.00
P4258—Fumed	

Solid oak, seat closed, 52x22 in., ht. of back 17½ in., width of arms 3½ in., width of front post 3½ in. Crated, 150 lbs.

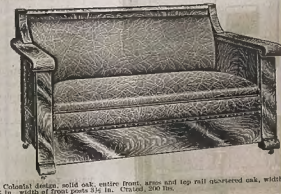
Imit. Black Leather—	Each
P4075—Golden	$44.00

Moleskin Brown Spanish Leather—	Each
P4551—Fumed	$46.00

Mission style, solid oak, width of arms 3½ in., width of front posts 3½ in. Crated, 150 lbs.

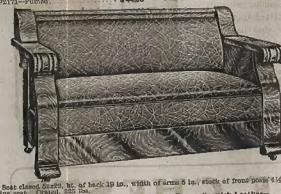
Imit. Brown Spanish Leather—	Each
P2179—Golden	$44.00
P2171—Fumed	

Moleskin Brown Spanish Leather—	Each
P2177—Golden	$52.00
P2178—Fumed	



Colonial design, solid oak, entire front, arms and top rail shortened oak, width of arms 3½ in., width of front posts 3½ in. Crated, 200 lbs.

Imit. Brown Spanish Leather—	Each
P2175—Golden	$52.50
P2175—Fumed	



Seat closed 52x22, ht. of back 19 in., width of arms 5 in., stock of front posts 4½ in., full spring seat. Crated, 250 lbs.

Imit. Brown Spanish Leather—	Each
P2190—Mahog. ven., pol. frames	$52.50

Gen. Brown Spanish Leather—	Each
P4697—Quartered oak, fumed, golden	T. O.
P4691—	

Heavy stock, seat closed 52x22, ht. of back 18 in., width of arms 4 in., Crated, 340 lbs.

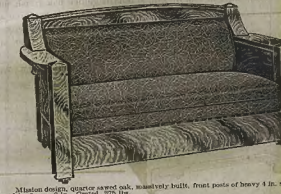
Imit. Brown Spanish Leather—	Each
P4715—Quartered oak, golden	$55.25
P4715N—Gen. mahogany veneer	

Gen. Brown Spanish Leather—	Each
P4716—Quartered oak, golden	$76.50
P4716N—Gen. mahogany veneer	

Quartered oak, seat closed 52x22, ht. of back 20 in., width of arms 7 in., stock of front post 5 in., hand polished finish. Crated, 250 lbs.

Imit. Brown Spanish Leather—	Each
P4721—Fumed	$52.00

Gen. Brown Spanish Leather—	Each
P4720—Golden	T. O.
P4720—Fumed	



Mission design, quarter sawed oak, massively built, front posts of heavy 4 in. square stock, width of arms 6 in. Crated, 375 lbs.

Imit. Brown Spanish Leather—	Each
P2186—Golden	$55.25
P2187—Fumed	

Genuine Brown Spanish Leather—	Each
P2188—Golden	$78.50
P2189—Fumed	

DAVENETTE PAD ..... Each, **$7.50**

P6077—Fits any davenette shown on this page. Choice cotton felt, 3½ in. box, blue and white striped floral art tick. Burlapped, 35 lbs.

3 PC. "KODAV" SUITS

ped with the well known "Seng" springs. Arm chairs and rockers have steel spring super-construction. They match the davenette perfectly in design and finish.

Handsome, serviceable living room suits, combining desirable utility features. Davenette opens with a well balanced motion into a comfortable full size bed, equip-

Colonial design, selected quarter sawed oak, all posts are 4 in. wide, all arms 4 in. wide. Crated, 300 lbs.

Imit. Brown Spanish Leather—
P2334—Golden
P2335—Fumed
SUIT (3 pcs.) **$78.00**

Moleskin Brown Spanish Leather—
P2336—Golden
P2337—Fumed
SUIT (3 pcs.) **$97.50**

Colonial design, selected quartered oak fronts, arms and top rails, posts 4 in. wide, arms 4 in. wide. Crated, 300 lbs.

Brown Moleskin Spanish Leather—
P2335—Golden
SUIT (3 pcs.), **$82.50**

Brown Moleskin Spanish Leather—
P2333—Fumed
SUIT (3 pcs.). **$82.50**

Quartered oak, mission design, revolving bed davenport, width of arms and front posts 5½ in., ht. of back above seat 19 in. Crated, 300 lbs.

Spanish Moleskin Leather—
P1931—Golden
SUIT (3 pcs.), **$111.25**

Spanish Moleskin Leather—
P1934—Fumed
SUIT (3 pcs.), **$111.25**

Tapestry—
P1937—Mahogany
SUIT (3 pcs.), **$154.00**

QUARTERED OAK "KODAV" DAVENETTES

Massive in appearance, shaped front post. Selected from among our leading values. Feature this item and secure an extra profit.

Brown imitation Spanish leather, selected quartered oak, massive shaped front post and arms 4½ in. wide, back 19 in. high, full spring seat closed 52x22 in. Crated, 240 lbs.

P4698 —Golden polish finish. Each, **$65.25**

P4713 —Fumed finish. Each, **$65.25**

MOLESKIN SPANISH LEATHER

Shown on this page are many items upholstered in Moleskin Spanish Leather, a type of imitation leather which in appearance closely resembles the genuine. Only an expert can discern the difference. It is the highest grade imitation leather made and will outwear most grades of the genuine leather that have been used by furniture manufacturers during the past few years. Its lower cost and excellent wearing qualities are its greatest recommendations.

SOLID GOLD CAMEO BROOCHES—Beautiful Designs of Distinction

Each in velvet lined box.

J3088 J3079 J3074 J3210

Bright Finish—10k, hand engraved mounting, pink cameo center, ring for chain.

J3088—Cameo 8x10 ..... Each, **$ 9.50**
J3082—Cameo 9x11¼ ..... " **10.75**
J3090—Cameo 12x15 ..... " **13.75**

Green Gold Finish—10k, hand engraved mounting, carnelian cameo, ring for chain.

J3079—Cameo 9x11¼ ..... Each, **$13.25**

Burnished Finish—10k, twisted gold cord and genuine pearl border, cameo center, ring for attaching to necklace.

J3084—Cameo 9x11 ..... Each, **$13.50**
J3075—Cameo 9x11¼ ..... " **16.50**
J3093—Cameo 15x21½ ..... " **19.75**

Green Gold Finish—10k, pierced gallery effect mounting, green gold leaf border, pink cameo, ring for chain.

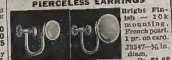
J3080—Cameo 9x11¼ ..... Each, **$16.75**

SOLID GOLD BAR PINS

J2707—9 in., 10k, bright finish, burnished gallery effect filigree design, small style leaves, 3 baroque pearls, cut cornered center. 1 on card..... Each, **$6.00**

J2707—9¼ in., 14k, green gold finish, gallery effect hand engraved mountings, platinum finish, fancy bar center, 3 cut sapphires, 2 cut diamond settings. Each in velvet lined box..... Each, **$44.50**

PIERCELESS EARRINGS



J3241 J3249

Bright Finish—10k, 2 on mounting, French pair, 1 pr. on card.
J3247—3/16 in. diam..... Fr. **$1.65**
J3245—¼ in. diam..... " **2.10**

SOLID GOLD KNIVES

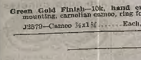
For Watch Chains

J3940—2 1/16 in., 10k sides, Roman finish, plated strengthening pc., 2 blades, curved pen and file. 1 in pkg..... Each, **$2.25**

J3908—2¾ in., 10k sides, Roman finish, plated strengthening pc., 2 blades, 1 in pkg..... Each, **$5.75**

CUFF BUTTONS—Plain and Diamond Set

For Soft Cuffs



J3870 J3799 J3871 J3872 J3873

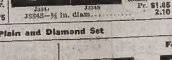
J3870—English finish, engraved border, burnished signet, connecting rope, plated connecting links. 1 pr. on card..... Fr. **$2.25**

J3799—10k, plain Roman finish rope, bright edges, plated connecting links. 1 pr. on card..... Fr. **$3.75**

J3871—10k tops, English finish, engraved border, burnished signet center, plated connecting links. 1 pr. on card, in velvet lined box..... Fr. **$5.75**

J3872—10k, bright green gold finish, twisted cord and bead design, burnished signet center, pierced border. 1 pr. in velvet lined box..... Fr. **$7.25**

J3873—10k top and base, English finish, engine turned top, beaded plain signet center, gold filled reinforced post. 1 pr. on card..... Fr. **$3.75**



J3799 J3851 J3835

J3851—10k top and base, plain Roman finish, star set diamond, gold filled reinforced post. 1 pr. on card..... Fr. **$3.75**

For Stiff Cuffs

J3835—10k, heavy wt., Roman finish, genuine diamond star cut center. Each pr. in velvet lined box..... Fr. **$21.50**

SOLID GOLD SCARF PINS—Favorite Styles

J3177 J3179 J3163 J3130

J3177—10k, English finish, openwork design, ruby style settings. 1 on card. Each, **$1.55**

J3179—10k, bright finish, fancy engraved border, ruby style setting. 1 on card. Each, **$3.75**

J3163—10k, bright finish, openwork design, genuine diamond setting. Each, **$7.25**
1 on card.....

J3130—10k, white gold mounting, Japanese pearl, genuine cut diamond setting. Each in velvet lined box..... Each, **$25.00**

SOLID GOLD "ACROSS THE VEST" CHAINS

Swivel and ring ends, for attaching pocket knives, etc. (except J4956). Each in velvet box.

J4956—30k, 13 in., bright finish, cable links alternating with ribbed bars. Each, **$5.50**

J4957—10k, 13 in., bright finish, round cord links..... Each, **$6.50**

J4884—10k, 18½ in., bright finish, fancy double links, swivel and spring ring, each link colored. Each, **$8.75**

J4956—10k, 12¾ in., bright finish, cable links alternating with fancy shaped engraved bars. Each in velvet lined box. Each, **$12.75**

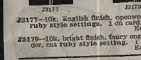
J4961—10k, 12¾ in., English finish, heavy cord links. Each in velvet lined box. Each, **$14.25**

J4955—White bar, 10k, 12 in., bright finish, heavy round French curb links, bar drop chain with spring ring for charm. Each, **$18.50**

STERLING SILVER JEWELRY PLATINOID FINISH

Most popular jewelry of the day—non-tarnishable sterling silver and platinoid finish with brilliant style settings. Very attractive—sells on sight. Big profits can be realized.

PLATINOID FINISH BAR PINS—Fancy Open Work Designs



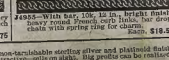
J3011—2¼ in., sterling silver top, openwork mounting, small brilliant style settings. Each on card, ribbon wrapped. Each, **$1.25**

J3013—3 in., sterling silver, openwork design, brilliant style cluster settings. Each on card, ribbon wrapped. Each, **$3.50**

J3014—2¼ in., sterling silver, non-tarnishable platinoid finish, 3 cut stones and beaded border, brilliant cluster setting, 1 on card, ribbon wrapped. Each, **$4.50**
safety catch.....

J3020—2¼ in., sterling silver non-tarnishable platinoid finish, gallery effect, fancy effect beaded embroidery, brilliant style cluster settings, safety catch..... Each, **$7.25**

STERLING SILVER BROOCHES —Openwork Designs



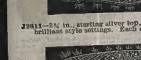
J3446—1¼ in., sterling silver top, openwork design, brilliant style settings, safety catch. Each on card, ribbon wrapped. Each, **$1.65**

J3449—2 in., sterling silver, pierced design, brilliant style settings. Each on card, ribbon wrapped..... Each, **$2.95**

DIAMOND RINGS—Engagement, Cluster and Fancy Settings

POPULAR PRICED DIAMOND RINGS—Engagement Style

Slightly imperfect. Cut stones of great brilliancy. Imperfections are so slight as to be detected only by closest inspection. Each stone is set, in 14k solid gold hand-made mounting. Each in velvet box.



J3054 J3055 J3056 J3057 J3060

J3054—¼ ct. Ea. **$21.50** J3055—¼ ct. Ea. **$ 28.50** J3056—½ ct. Ea. **$ 75.00** J3057—¾ ct. Ea. **$210.00** J3060—1 ct. Ea. **$340.00**
J3058—¼ ct. " **32.00** J3059—½ ct. " **150.00** J3061—1 ct. " **460.00**

FIRST QUALITY DIAMOND RINGS—Engagement Style, Absolutely Perfect

Guaranteed perfect, fine quality white stones free from flaws or imperfections. Each stone is set in 14k solid gold hand-made mountings. Each in velvet box.

J3021 J3023 J3024 J3027 J3030 J3033

J3021—¼ ct. Ea. **$33.50** J3023—¼ ct. Ea. **$ 59.50** J3027—½ ct. Ea. **$237.00** J3033—1 ct. Ea. **$465.00**
J3022—½ ct. " **68.00** J3024—½ ct. " **195.00** J3030—¾ ct. " **315.00** J3034—1¼ ct. " **595.00**

FANCY DIAMOND RINGS—Single & Cluster Set

—Gold and Platinum Top Mountings

J3245 J3247 J3238 J3244

J3246—14k, green gold finish, high pierced gallery effect mounting, platinum top, genuine cut diamond..... Each, **$49.50**

J3247—14k, engagement style setting, bright finish, platinum top, cluster of 7 genuine cut diamonds, top appearance of 1 ct. diamond..... Each, **$97.50**

J3238—14k, engagement style, bright finish, platinum top, cluster of 7 genuine cut diamonds, top appearance of 1 ct. diamond..... Each, **$97.50**

J3244—14k, engagement style, bright finish, engraved shank, platinum top, cluster setting of 7 genuine cut diamonds, has appearance of 1 ct. diamond. Each, **$100.00**

J2967—14k white gold mounting throughout, openwork pierced gallery effect, fancy effect shank, large genuine cut diamond. Each, **$57.50**

J3389—14k, high pierced gallery effect mounting, platinum top, cluster setting of 7 genuine cut diamonds..... Each, **$100.00**

OPTICAL GOODS

Machinists and many other working men use them constantly.

Tremendous demand for eye glasses, spectacles, shades and goggles makes this a very profitable line for you. Every auto owner needs a pair or two. Get your share of this trade by showing a complete line of this merchandise.

RIDING TEMPLE SPECTACLES

J8613—Solid white metal soldered saddle bridge, nose screw and temple joint, size 0 eye lens. Asstd. sizes 0 to 3. 1 doz. in box. Doz. $2.25

J8617—High grade gold alloy frame, closed style, 0 eye size white lens. Asstd. sizes 0 to 3. 1 doz. in box. . . . Doz. $2.45

Rimless

J8623—1⅛ in. round white optical lenses, beveled and polished both sides. Highly finished, gold alloy frame, clamped joints, white temples. Asstd. sizes 2 to 40, 10 to 30 in 2 sizes apart. SPECIFY SIZES. 1 doz. in box. Doz. $4.50

SUN SPECTACLES AND EYE GLASSES

Plain glass, protection from glare or snow at sides.

Rimmed

J8624—Gold alloy riding bows, spring wire temples, patented screw, nickeled saddle bridge, 00 eye, large size smoked lens, light, medium and dark. Asstd. 1 doz. in box. Doz. $1.95

J8629—Riding bows, nickel plated steel, smoked, extra large size smoked lenses. 1½ in. 1 doz. in box. . . . Doz. $2.50

J8672—Ground edge smoked mica-proof lenses, rimless gold alloy corrugated offset eye glasses and riding bow spectacles. Asstd. 1 doz. on card in box. Doz. $2.50

COLORED LENS SPECTACLES

J8639—2 colors, gold alloy riding bow, 1⅝ in. amber, blue bound and smoked lens. Asstd. 1 doz. in box. . . . Doz. $2.25

BIFOCAL SPECTACLES

J8602—Riding bows, nickeled steel frame, 00 eye, smoked lower for reading, sizes 5 to 10 and 6 to 24. Asstd. 1 doz. in box. Doz. $2.65

J8687—Gold alloy riding temples, white convex lenses, permanent bifocal clamped joints, sizes 3 to 16 and 4 to 18. Asstd. 1 doz. in box. Doz. $3.75

READING AND SEWING GLASS ASST.

Highly polished round with each sort, representing 12 sizes.

J8675—13 styles, gold alloy and nickeled riding bow temples and corrugated offset eye glasses, oval and round colored eye protectors. Asstd. 1 doz. on card in box. Doz. $3.75

White temples, white lens riding bow spectacles. 0 eye riding bow spectacles. 00 eye riding bow spectacles. Asstd. 1 doz. in box. Doz. $3.75

White lens framed eyeglasses, nickeled riding bow temples. White lens riding temple spectacles. White lens riding temple spectacles, nickeled saddle bridge, folding bow rimless eyeglasses. Asstd. 1 doz. in box. Doz. $3.75

J8677—Gold alloy riding bows, white lenses, 1⅝ in. Asstd. 12 doz. in corrugated case. Doz. $1.95

J8678—Gold alloy riding bows, white lenses, 1⅝ in. Asstd. 12 doz. in corrugated case. Doz. $1.95

EYE PROTECTING SPECTACLE ASST.

J8643—4 colors, gold alloy riding temple, nickeled screw ends, saddle bridge, large size glass lens, 1⅝ and 2 nickeled rims and 3 amber. Asstd. 1 doz. on card in box. . . . Doz. $2.25

AMBER COLOR SPECTACLES AND EYE GLASSES

Spectacles—Riding bow, large amber color lens, nickel and gilt alloy. Doz. $2.10

Eye Glasses—Large 60 size mica-proof lenses, 1½ in. nickel and gilt alloy, adjustable spring, straight and offset guards. Doz. $2.65

EYE SHADES

J8654—Trans-parent and opaque green eyeshade, nickel plated, adjustable. Asstd. 1 doz. in box. Doz. $.75

J8655—Leatherette Metal—Strengthened bottom. 1 doz. in box. Doz. $.60

J8656—For straight temples. Doz. $.60

J8657—Half velvet lined. 1 doz. in box. Doz. $.95

J8658—For riding bows. Doz. $.95

EYE PROTECTORS

J8926—1¼ in. amber color celluloid lenses, highly polished round tortoise shell metal frame and hinged riding bows. 1 doz. in box. Doz. $1.25

3 pcs. Plain Lenses—Gold alloy nickeled frame, nose-piece and temples, 1¼ in. round lenses. 1 doz. on easel card in box. Doz. $1.25

J8978—White lens. . . . $1.95
J8979—Amber lens. . . . $2.00

SHELL FRAME SPECTACLES

J8710—1½ in. micoquille amber lenses, tortoise finish frame and nosepiece, clamp joints, nickeled riding temples, hinged paper boxes. ½ doz. in box. Doz. $2.50

GOLD ALLOY AMBER EYE PROTECTOR

J8676—4 styles, round lens, gold alloy spring wire corrugated offset eye protectors, riding bow temples. Asstd. 1 doz. on easel card in box. Doz. $3.25

J8680—Shellette frames, gold alloy spring wire corrugated offset nosepiece, large oval and round amber micoquille lenses. Asstd. 1 doz. on card in box. Doz. $3.95

J8681—Shellette frames, gold alloy spring wire corrugated offset nosepiece, large oval and round amber micoquille lenses. Asstd. 1 doz. on card in box. Doz. $3.95

J8682—Safety—Interchangeable frame, solid white metal frame, wire screen sides, heavy cable bows, largest side shields made. Asstd. 1 doz. in box. Doz. $4.25

J8683—White lens. . . . $4.50
J8685—Amber lens. . . . $4.75

LARGE LENS EYE PROTECTORS

1¾ in. Plain Lenses—Nickel plated riding temples, 1 doz. in pkg. Doz.
J8681—White lens. . . . $2.25
J8682—Smoked lens. . . . 2.45

3 pcs. Plain Lenses—Gold alloy nickeled frame, nose-piece and temples, 1¾ in. round lenses. 1 doz. on easel card in box. Doz. $2.25

J8978—White lens. . . . $1.95
J8979—Amber lens. . . . 2.00

SHELL FRAME SPECTACLES

J8714—1¼ in. round white optical lenses, tortoise shell and polished steel frame, highly finished celluloid temples, clamp joints. Asstd. sizes 8 to 40, 10 to 30 in 2 sizes apart. SPECIFY SIZES. 1 doz. in box. Doz. $3.50

AUTOMOBILE GOGGLES

Amber—Micoquille lenses polished tortoise finish frame, wire sides, ventilated. 1 doz. in box. Doz.
J8703—1¼ in. lens. . . . $4.50
J8704—1½ in. lens. . . . 5.00

J8705—Micoquille lenses, polished tortoise finish frame, wire sides, ventilated, flexible bows. Doz.
J8706—1¼ in. lenses. . . . $4.50
J8707—1½ in. lenses. . . . 5.00

Rubber Covered Riding Temple—Fine quality leather, wire sides, ventilated, very comfortable, fit close to the face. 1 in case.
J8709—1¼ in. amber lenses. . . . $1.00
J8710—1¼ in. lenses, flexible bows. . . . 1.25
J8711—1½ in. lenses, flexible bows. . . . 1.40
Solid celluloid frame bridge. . . . Each, $1.20

J8708—4 styles, crystal & tortoise frames, fine quality riding bows, large curbas lens, fit close to face, accident proof lenses. Asstd. 6 pcs. on velvet card in box. Each, 95c

(Total for asst. $5.70)

SHELL RIM EYE GLASS

J8717—1⅛ in. round white optical convex lenses, ground and polished both sides, colored style imit. shell rim and guard. Asstd. sizes 0 to 40, 14 to 24. Specify sizes. Doz. $2.75

WINDY WEATHER AND AUTO GOGGLES

"Leaner"—1½ in. white lens, very leather mask, metal frame and cap, elastic under lip bands. Doz.
J8381—1 doz. in box. . . . 69c

Round Edges—1½ in. white lens, semi-oval inclined, soft fat bound, ventilated aluminum finish cups, head elastic, wide flat elastic. Doz.
J8707—1 doz. in box. . . . 85c

"Berkshire" Auto—Large size, oval inclined lenses in metal cups, nickel trimmed, wide flat elastic over plated aluminum finish cups. 1 doz. in box. Doz.
J8696—White lenses. $2.25

Stitched Bound Edges—1¼ in. white lens, fine quality leather bound edges, ventilated cups, flat elastic.
J8698—1 doz. in box. Doz. $2.95

Ventilated Leather Sides—1¼ in. white lenses, nickel rim, adjustable flexible leather sides, flat elastic. Doz.
J8713—1 in case. Each, 95c

WILLSON'S GOGGLES

Comfortable styles for every purpose. They afford protection against sun, all glare, dust & dirt. The assortment contains the same styles as the regular stock numbers. All excellent values.

J8943—1½ round amber lenses, rust-proof white agate riding bows. 1 doz. in box. . . . . Doz. $2.18

J8833—Eye glass, 1¾ in. round amber lenses, nickel style imit. shell rim with guard, ½ doz. in box. Doz. $3.75

J8944—1¾ in. round amber lenses, shell style frame, metal riding bows. ½ doz. in box. . . . Doz. $4.75

J8845—"Universal," 1¾ in. round amber lenses, wire screen side guards, flexible cable temples. ½ doz. in box. . . . . Doz. $4.25

J8846—1¾ in. round amber lenses, tortoise finish metal frame, ½ doz. in box. . . . Doz. $5.75

J8850—1¾ in. round amber lenses, tortoise finish metal frame, reinforced flexible metal temples. ½ doz. in box. . . . . Doz. $6.00

J8854—Eye glass, 1¾ in. amber lenses, drop bow, wire screen guards. ½ doz. in box. . . . Doz. $8.25

J8931—1¾ in. round amber lenses, tortoise finish frame, ventilated leather side guards, flexible cable temples. ½ doz. in metal case. . . . Doz. $8.25

J8848—1¾ in. amber lenses, shell style frame, ventilated side guards, ½ doz. in metal case. . . . . Doz. $9.75

J8932—1¾ in. round amber lenses, self adjusting, tortoise finish metal frame, ventilated leather side guards, flexible cable temples. ½ doz. in metal case. Doz. $12.25

J8847—1¾ in. Albee eye protector, ventilated leather side guards, flexible cable temples. ½ doz. in box. . . . . Doz. $8.25

2% 10 DAYS
Our Terms
1% 30 DAYS
Net 60 Days

WILLSON'S GOGGLE ASSORTMENT

A comfortable protection against sun, glare, dust, wind, rain and water reflection, etc. Comfortable styles for every purpose. Very attractively displayed.

J8733—3 in case. Each, 95c

J8943—11 styles, 1¾, 1⅛ and 1⅜ round amber, amber rim, flexible bows, various designs in metal and shell styles, some with flexible cable and shell bows, some with side shields, some with ventilated sides. 1 doz. in case. In 14x15x14½ in. box.

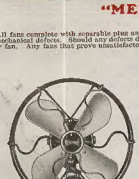
ASST. (3¼ doz.). $16.50

Electric Fans

"MENOMINEE" 4 BLADE ELECTRIC FANS

Made By Menominee Electric Fan Co.

All fans complete with separable plug and 8 ft. of cord. Universal motors operate on either direct or alternating current. "Menominee" fans are guaranteed against all mechanical defects. Should any defects develop within one year from the date of sale, we will make repair or replacement without charge. A guarantee tag is furnished with every fan. Any fans that prove unsatisfactory positively must be returned within 10 days from date of sale. Try adjusting.



"Menominee" Stationary

Direct or Alternating Current—Universal motor (25 to 60 cycles), 4 full size 9 in. blades, brass lacquer finish, steel guard, cast iron motor body and base all black japanned, bronze bearings, green felt base, knuckle joint, allowing adjustment. Each in wire bound wood box.

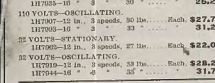
			Each
32 VOLTS—STATIONARY.			
1H7945—9 in., 1 speed, 19 lbs.			$10.00
1H7943—9 " 3 "	15 "		11.50
32 VOLTS—OSCILLATING.			Each
1H7918—9 in., 3 speeds, 25 lbs.			$16.50

"Menominee" Oscillating

Direct Current—4 solid brass blades, black japanned steel guard, black japanned drawn steel motor bodies and bases, felt covered bases, bronze bearings, knuckle and swivel joints. 60 cycle. Each in wire bound veneered wood box.

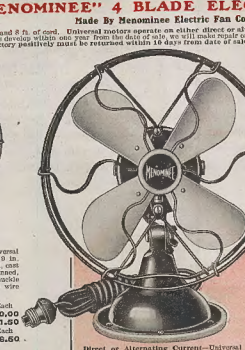
110 VOLTS—STATIONARY.		
1H7934—12 in., 3 speeds, 37 lbs.	Each.	$21.25
1H7935—16 " 3 " 30 "		25.25
110 VOLTS—OSCILLATING.		
1H7907—12 in., 3 speeds, 30 lbs.	Each.	$27.75
1H7909—16 " 3 " 33 "		31.25
32 VOLTS—STATIONARY.		
1H7905—12 in., 3 speeds, 27 lbs.	Each.	$22.00
32 VOLTS—OSCILLATING.		
1H7919—12 in., 3 speeds, 33 lbs.	Each.	$28.25
1H7944—16 " 3 " 35 "		31.75

ROBBINS' & MYERS' CEILING FANS



56 in., 4 blades, 3 speeds, plain type, black enamel finish, 116 volts. With ceiling canopy, insulated hanger and hook, without hanger rod. Ordinary ¾ in. standard pipe can be used for hanger rod.

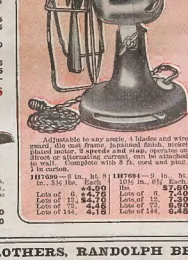
1H4223—For direct current	Each. $40.00
1H4224—For alternating current	" 46.40



Direct or Alternating Current—Universal motor (25 to 60 cycles), 4 full size 16 in. blades, brass lacquered finish, steel guard, cast iron motor body and base all black japanned, bronze bearings, green felt base, knuckle joint, allowing adjustments. Each in wire bound wood box.

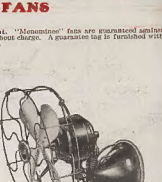
110 VOLTS—STATIONARY.	Speed	Lbs.	Each	Ready for Use
1H7903—16 in.	3	30	$ 9.00	$ 9.50
1H7905—" "	3	45	10.50	11.00
110 VOLTS—OSCILLATING.				
	Speeds	Lbs.	Each	Ready for Use
1H7082—16 in.	3	45	$14.50	$15.00

"POLAR CUB"



Adjustable to any angle. 4 blades and wire guard, die cast frame, japanned finish, nickel trimmings. Frame, blades and stop, operates on direct or alternating current, can be attached to wall. Complete with 8 ft. cord and plug. 1 in carton.

1H7099—9 in., ht. 8 in., 3½ lbs.	Each.	1H7081—9 in., ht. 10½ in., 6½ lbs.	Each.
	$4.90		$7.50
Lots of 6	$4.70	Lots of 6	7.20
Lots of 12	$4.75	Lots of 12	7.30
Lots of 72	4.45	Lots of 72	6.80
Lots of 144	4.18	Lots of 144	6.48



"Menominee"—Showing wall position. A feature of both Oscillating and Stationary types

Alternating Current—4 solid brass blades, black japanned drawn steel motor bodies and bases, felt covered bases, black japanned steel guard, bronze bearings, knuckle and swivel joints. 60 cycle. Each in wire bound veneered wood box.

110 VOLTS—STATIONARY.		
1H7931—12 in., 3 speeds, 27 lbs.	Each.	$21.25
1H7936—16 " 3 " 30 "		25.25
110 VOLTS—OSCILLATING.		
1H7923—12 in., 3 speeds, 30 lbs.	Each.	$27.75
	Lots of 3, "	26.25
1H7924—16 in., 3 speeds, 33 lbs.	"	31.25
	Lots of 3, "	30.00

"R. & M." STANDARD DESIGN ELECTRIC FANS

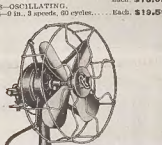
Made by Robbins & Myers

R. & M. Stationary

Drawn steel frame, 4 full size blades, light weight, wide bases, black japanned stirrup in gold, polished brass blades, base covered with felt pad, 8 ft. cord and plug.

Direct or Alternating Current—Universal motor. 1 in box.

110 VOLTS—STATIONARY.		
1H4022—9 in., 3 speeds, 25 to 60 cycles.	Each.	$16.85
110 VOLTS—OSCILLATING.		
1H4194—9 in., 3 speeds, 60 cycles.	Each.	$19.50



R. & M. Oscillating

Alternating Current—1 in box.

110 VOLTS—OSCILLATING.		
1H3401—12 in., 3 speeds, 60 cycles.	Each.	$28.80
1H3905—16 " 3 "	"	32.85

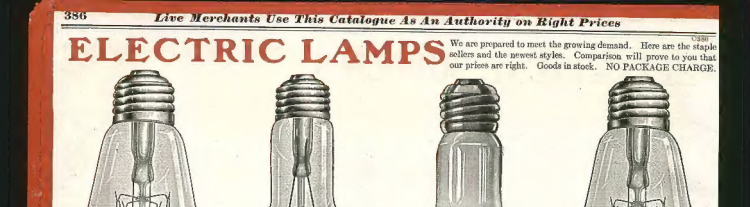
Direct Current—1 in box.

110 VOLTS—OSCILLATING.		
1H3402—16 in., 3 speeds.	Each.	$31.80

ELECTRIC LAMPS

C9390

We are prepared to meet the growing demand. Here are the staple sellers and the newest styles. Comparison will prove to you that our prices are right. Goods in stock. NO PACKAGE CHARGE.



"MAZDA"

The recognized fast selling nationally advertised lamps. No better lamps can be had on the market at any price.

VACUUM DRAWN WIRE TUNGSTEN LAMPS

One "Mazda" lamp will give as much light as 3 carbon lamps of the same wattage or 3 times the light of the same current consumption. Shipped at customer's risk.

Clear Glass

110 Volt. Unskirted Base Lots of 5 Lots of 50

	Watts	C. P. (Skin lamp)	Each	Each
C4229—	10	13	27c	24c
C4301—	20	18	28c	24c
C4302—	25	20	28c	24c
C4303—	30	25	28c	24c
C4818—	50	38	28c	24c
C4819—	60	50	28c	24c

110 Volt. Skirted Base Lots of 5 Lots of 25

	Watts	C. P.	Each	Each
C4305—	100	110	28c	23c

115 Volt. Unskirted Base Lots of 5 Lots of 50

	Watts	C. P.	Each	Each
C4308—	25	20	28c	24c
C4309—	50	38	28c	24c
C4310—	60	50	28c	24c

Frosted Bowl

110 Volt. Unskirted Base Lots of 5 Lots of 10

	Watts	C. P.	Each	Each
C4290—	25	20	36c	33c
C4291—	40	32	36c	33c

"EAGLE" RENEWED TUNGSTEN LAMPS—Clear Glass

Made by Nassau-Economy Division, National Lamp Works, General Electric Co. The best renewal lamp on the market, low in price, high in quality. Guaranteed to burn from 600 to 800 hours. Gives more luminous rays shown average life of over 1,000 hours. Shipped at customer's risk.

110 Volt. Unskirted Base Lots of 5 Lots of 100

	Watts	C. P.	Each	Each
C4261—	10	13	*20	*17c
C4262—	15	15	*20	*17c
C4263—	20	20	*20	*17c
C4264—	60	60	27c	25c

110 Volt. Skirted Base Lots of 5 Lots of 25

	Watts	C. P.	Each	Each
C4265—	100	125	42c	41c

NITROGEN DRAWN WIRE TUNGSTEN LAMPS

For store and factory with Indirect or semi-direct fixtures. Estimated life 1,000 hours. We recommend 115 volt lamps of this type for 110 volt circuit. Fit standard Edison socket. Shipped at your risk. NOTE: C. P. given is "mean horizontal."

The standard trademarked brand

Clear Glass

115 Volt. Unskirted Base

	Watts	C. P.	Each	Lots of 25 Each
C4298—	75	88	T.O.	T.O.

	Watts	C. P.	Each	Lots of 25 Each
C4300—	150	175	$1.08	$1.05
C4315—	200	268	2.05	1.95
C4317—	300	438 (Fits mogul)	2.85	2.70

ROUND VACUUM TUNGSTENS

Round type all frosted, medium screw base. Sold in lots of not less than 5.

C4491—25 watt, 23 c. p., 110 v., unskirted base..... Each, 46c
Lots of 50, Each, 46c
Lots of 100, Each, 46c

	Watts	C. P.	Each	Each
C4492—	40	32	48c	46c

"MAZDA" LOW VOLTAGE VACUUM LAMPS

For use with individual farm lighting plants using 10 cell storage batteries or 38 volt generator plants.

Clear Glass

28-32 Volt. Unskirted Base

	Watts	C. P.	Each	Lots of 25 Each
C4244—	20	20	Each, T.O.	Each, T.O.
C4246—	40	40	32c	30c

"SERVICE"

The ultimate in quality priced well under the market. Used exclusively by many large companies.

NITROGEN DRAWN WIRE TUNGSTEN LAMPS

For store and factory with Indirect or semi-direct fixtures. Estimated life 1,000 hours. We recommend 115 volt lamps of this type for 110 volt circuit. Fit standard Edison socket. Shipped at your risk. NOTE: C. P. given is "mean horizontal."

Licensed under G. E. Co's Patents

Clear Glass

115 Volt. Unskirted Base

	Watts	C. P.	Each	Lots of 25 Each
C4288—	75	88	88c	85c
C4289—	100	110	88c	85c

	Watts	C. P.	Each	Lots of 25 Each
C4293—	150	175	$1.40	$1.35
C4294—	200	250	1.40	1.35

Blue Glass

For use where color comparison is necessary under artificial light.

115 Volt. Unskirted Base

	Watts	C. P.	Each	Lots of 25 Each
C4267—	40	44	81c	77c
C4268—	60	66	81c	77c
C4269—	75	83	81c	77c

"SERVICE" LOW VOLTAGE NITROGEN

28-32 Volt. Unskirted Base

	Watts	C. P.	Each	Lots of 25 Each
C4253—	75	80	98c	95c
C4254—	200	55	Temp. Out	

"SERVICE" OPAL TIPLESS NITRO LAMP

C4435—30 watt, 60 c. p., 115 volt. The glass filled opal bulb gives a soft glowing light just the lamp for exposed lighting without shades or for use in portables and floor lamps.

Lots of 50, Temp. Out

VACUUM DRAWN WIRE TUNGSTEN LAMPS

Manufactured under the license of the General Electric Co., who control the patent under which the "Mazda" and other brands are produced. Shipped as customers' risk.

Clear Glass

110 Volt. Unskirted Base

	Watts	C. P.	Lots of 5 Each	Lots of 50 Each
C4441—	10	8	31c	29c
C4442—	20	18	31c	29c
C4443—	25	20	31c	29c
C4444—	30	25	31c	29c
C4445—	40	32	31c	29c
C4446—	60	50	39c	36c

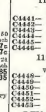
115 Volt. Unskirted Base

	Watts	C. P.	Lots of 5 Each	Lots of 50 Each
C4448—	10	8	31c	29c
C4449—	20	18	31c	29c
C4450—	25	20	31c	29c
C4451—	30	25	31c	29c
C4452—	40	32	31c	29c
C4453—	60	50	39c	36c

DRY CELL BATTERY BULBS

C4374—1½ volts, 6-10 amp., miniature screw base. 10 in bull.
(Total $1.40) Each, 14c

C4375—3 volts, 6-10 amp., miniature screw base. 10 in pkg.
(Total) Temp. Out



"DIM-A-LITE"

Fits any electric light socket and turns up or down just like a gas burner. Made of Nickel dull, half, dim, nitelite and turned brass. Saves 30% to 50% of current.

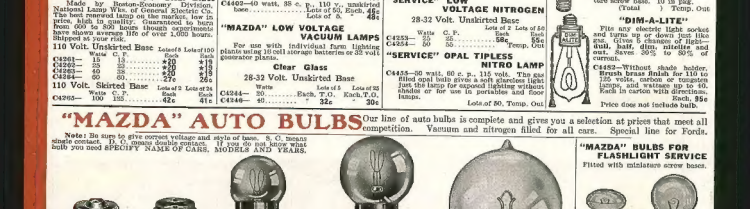
C4462—Without shade holder, Brush Brass finish for 110 to 125 volts, carbon or tungsten lamps, and candles up to 40. Each in carton with directions. Each, 89c

Price does not include bulb.

"MAZDA" AUTO BULBS

Our line of auto bulbs is complete and gives you a selection at prices that meet all competition. Vacuum and nitrogen filled for all cars. Special line for Fords.

Note: Be sure to give correct voltage and style of base. S. C. means single contact. D. C. means double contact. If you do not know what bulb you need SPECIFY NAME OF CARS, MODELS AND YEARS.



VACUUM STYLE—Bayonet Base

Rear and Speedometer—

	Mazda number	Volts	C. P.	Type bulb	Lots of 5 Each
C4611—S. C.	63	6-8	2	G6	20c
C4605—D. C.	61	6-8	3	G6	20c

Side and Auxiliary Headlights— Temp. Out

C4610—S. C.	81	6-8	4	G8	23c
C4604—D. C.	83	6-8	4	G8	23c

NITROGEN FILLED—Bayonet Base

Headlight and Spotlight—

	Mazda number	Volts	C. P.	Type bulb	Lots of 5 Each
C4607—S. C.	130	6-8	21	G15	42c
C4618—D. C.	150	6-8	21	G15	42c

"MAZDA" AUTO BULBS—For Ford Cars

Magneto lighting system, 3 volt, 4 in series, double contact bayonet base.

NITROGEN TYPE—

C4622—Mazda No. 138, 27 C. P. G-12 type. Lots of 5, Each, 37c.

VACUUM TYPE—

C4616—Mazda No. 136, 18 C. P. G-12 type. Lots of 5, Each, 36c.

"MAZDA" HEADLIGHT BULBS—For Ford Cars

For automatic type lighting systems. On 1915, 16, 17 and 18 Ford cars. (Focusing 3 in. from lens.) 2 amperes, 6 volts, double contact bayonet base.

C4623—Nitrogen type. Each, 35c

"MAZDA" BULBS FOR FLASHLIGHT SERVICE

Fitted with miniature screw bases.

C4299-23

C4314-27

For 2 Cell Flashlight Batteries—

C4323—Flat end, opal back, for case reflectors, 2.5 volt, Mazda No. 40, 10 in box.
(Total $1.40) Each, 14c

C4326—Round clear bulb for large tube batteries, 2.5 volt, Mazda No. 40, 10 in box. Each, 14c
(Total $1.40)

For 3 Cell Flashlight Batteries— Clear or tubular type.

C4325—Flat end, opal back, 3.8 volts, Mazda No. 2, 10 in box.
(Total $1.40) Each, 14c

C4327—Round clear bulb, 3.8 volt Mazda No. 47, 10 in box.
(Total $1.40) Each, 14c

HATS, CAPS AND MILLINERY FLOWERS FOR HOT WEATHER WEAR

MISSES' STRAW HATS

Ridge Mushroom—Imported peanut body, mushroom block, ridge crown, wide brim with brown binding, wide brown satin band. 1 doz. in pkg.

5A5770—NATURAL GRASS. Doz. **$2.25**

New Mushroom Shape — Imported colored peanut body, in the season's popular shades, mushroom crown, wide mushroom brim, assrtd. color wide satin bands. Assrtd. ½ doz. in box.

5A5781—Assrtd. NAVY, RED and DK. GREEN. Doz. **$4.50**

MEN'S PLAID SPRING CAP

Exceptional values at the prices. They possess the features that will attract trade.

5A7319—Popular colorings, 6-4 crown, button top, taped seams, rounded sweat. Men and young men prefer this style and color plaid effect cap for sports wear. Assrtd. sizes 6¾ to 7¾. Assrtd. plaids. 4 doz. in box. Doz. **$2.75**

MEN'S PLAID SILK CAP

A popular spring and summer seller at a moderate cost.

5A7346—Plaid silk, large colored over-plaid patterns on art silks, full 1 pc. crown, taped seams, pearl, gold color silk sewn full lined, leather leather forehead sweat, snap button reinforced, sizes 6¾ to 7¾. Assrtd. sizes and patterns. ½ doz. in box. Doz. **$12.00**

"SUNSHINE" BRAND HARVEST HAT

At this price you are getting a real bargain that will increase your trade.

5A5749—Tlaxico Mexican, High 4 dent crown, wide roll brim, with natural braid binding, double cyclone leather, tweed feathered band, leather bound sweat. Assrtd. sizes 6¾ to 7¾. ½ doz. in pkg. Doz. **$4.25**

MEN'S NEW PLAIN WOOLEN CAP

Fine cloth selected pattern, leather forehead sweat. Quality considered this is an exceptional value.

5A3637—1 pc. crown, Wilson golf, full shape, plain olive and dk. green soft finish worsteds. 6¾ to 7¾. Assrtd. ½ doz. in box. Doz. **$13.50**

CHILDREN'S TRIMMED HAT ASSORTMENT

5A7666—Consisting of 4 popular shapes: 3 styles of white satin straw and 1 of butterfly chip. Assrtd. 1 doz. in pkg. Doz. **$1.25**

36 STYLE FLOWER AND FRUIT ASSORTMENT

An unusual offering to retail from 10c to 25c. Gives you a large attractive asst. with a minimum outlay and at a price that will bring you big returns.

5A7500—36 styles, fruit, flowers, wreath and spray asst., dahlias, forget-me-nots roses, poppies, pansies and natural fruits, silk, velvet and muslin, seed and berry effects, shaded foliage, chenille and rubber stems. Assrtd. 1 gro. in carton. Gro. **$8.50**

CHILDREN'S UNTRIMMED HAT ASSORTMENT

Very popular. You can dispose of a large stock of these at the price we quote.

5A8758—Imported natural grass peanut body in 3 popular safter shapes, mushroom and roll brims with brown binding. Assrtd. 1 doz. in pkg. Doz. **$1.60**

MEN'S HARVEST HAT ASSORTMENT

Fill in your stock with a couple of these bargain assortments. They make ideal stock for a straw hat sale. You can name splendid bargain prices and make good profit beside.

5A7632—Consisting of Mexican Peanut, Canton & Featherweight Mexican Palm Braids, in all the popular shapes. Lots which were too small to list separately, have been put in this assortment regardless of value. Assrtd. 1 doz. in pkg. Doz. **$2.25**

TOILET SOAPS

the softest of skins or grit soaps for the calloused hand of the mechanic.

Popular priced numbers and practically all of the nationally advertised brands. These soaps sell on merit—no great effort is required to dispose of them. Dainty scented soaps for the ladies. All are to be found here and the prices are right.

UNWRAPPED MILLED TOILET SOAPS

Turkish Bath — 1¾ oz. milled; white, pink and green.
1Y4000—Asstd. 3 doz. in box. Gro. $4.35 Doz. 38c

Oatmeal — Favorite Asst—3½ oz. oval cakes, assorted, Crown milled stock, buttermilk, rose, white, white, pink and green.
1Y4171—Asstd. 3 doz. in box. Gro. $5.00 Doz. 80c

Witch Hazel—3½ oz. round tablets, assorted, Crown milled stock, white, pink and green.
1Y4688—Asstd. 3 doz. in box. (Total 84c) Doz. 42c

Peroxide — "Monarch"—French milled, 3½ oz. oval cake, 3 colors, white, oatmeal and green.
1Y4198—3 doz. in box. (Total $1.35) Doz. 45c

Monogram Bath Toilet—3½ oz. round tablets, No. 1 Line, assorted, embossing letters, three colors and odors, peroxide, white, geranium, pink, elderflower, green.
1Y4131—Asstd. 3 doz. in wood box. Gro. $3.35 Doz. 32c

"Big Value"—4 kinds, 2½ oz. cakes, buttermilk, witch hazel, rose and oatmeal, pure hard mild soaps.
1Y4377—Asstd. 100 cakes to case. Case, $4.10

"Quaker Bouquet"—3½ oz. fat oval cake, 3 colors, white, milled stock, 3 odors, white, pink and green, perfumed.
1Y4153—3 doz. in wood box. Gro. $3.35 Doz. 35c

"Leader" Asst—4 kinds, 2½ oz. cakes, assorted, buttermilk, oatmeal, rose, white, witch hazel.
1Y4016—Asstd. 2 doz. in box. (Total $1.10) Doz. 55c

Bridal Rose & Violet—2 oz. oval cake, white and green, perfumed, Crown milled stock.
(Total $1.16) Doz. 57c

Kirk's No. 1 Line—Oval cake, blue grade, wallflowers, pure No. 1 perfumed floral.
1Y4030—Asstd. 1 doz. in box. Doz. 78c

Kirk's Lilac Bath Tablet—stock, white, lilac odor.
1Y4127—1 doz. in box. Doz. 90c

Graham's—3½ oz. oval cake, milled, white, perfumed.
1Y4240—1 doz. in box. Doz. 32c

Graham's Bath Tablet—Pure white, perfumed, large round cake.
1Y4044—1 doz. in box. Doz. $1.15

Jersey Asst—5 odors, toilet and bath tablets, hand'y size, sandal, geranium, rose, carnation, violet, peroxide.
1Y4202—Asstd. 1 doz. in display box. Doz. $11.00

SERVICE CASTILE SOAPS

"Service" Castile—White olive castile, lathers freely.
1Y4059—Square cuts. 1 doz. in box. Doz. 75c

"Service" Castile Asst—White olive castile, lathers freely.
1Y4060—In bars. 48 lbs. (6 four lb. bars, 6 two lb. bars and 12 one lb. bars) in case. Lb. 22½c

TOILET SOAP ASSORTMENTS

Big Variety Wire Basket — Asst—6 to 12 kinds, wrapped and unwrapped soaps.
1Y4188—Asstd. 3 doz. in 6 in. wire basket. Doz. 82c (Total $2.46)

"Victory" Asst—Choice variety of Graham's best Olive Cream, Peroxide and Bath Tablets to asstd. odors & colors.
1Y4064—30 cakes in box. Doz. $2.40

CASTILE SOAPS

Olive Oil Castile — Square cake, green, French milled.
1Y4134—2 oz., 2 doz. 45c
1Y4130—3½ " 2 " 85c

Pure Castile — 4 oz. cake, white milled stock, scented.
1Y4277—1 doz. in box. Doz. 95c

STERNE'S VEGETABLE OIL SOAPS

Made exclusively of vegetable oils, absolutely pure, lathers freely in hard or soft water, delicately perfumed, unwrapped wrappers, 4 odors in fifty display box. 1 doz. in box.

1Y4355—Veg. peroxide.
1Y4354—"Ole-Palm."
1Y4355—Antiseptic.
1Y4356—Almond oil.
Doz. 92c

1Y4353—Asstd. 4 doz. in case. Doz. 92c

"CROWN" CASTILE SOAP

With Wash Rag

"Crown"—Strictly pure soap, each cake wrapped in Turkish wash rag. Sealed.
1Y4026—1 doz. in box. Doz. 85c

"DEL GLORIA" GENUINE OLIVE OIL CASTILE SOAP

1Y4339—4 oz., white, pure olive castile, Spanish process, square cuts. 10 in box. Box. $1.50

"OLIVET" TOILET SOAP

1Y4338—Made from olive and cocoanut oil, possessing absolute purity. Bar 1 9/16 x 3, bath and surgery soap, each cake in parchment wrapper. 1 doz. in attractive counter display box. Doz. 95c

COCOA CASTILE SOAPS

Kirk's Cocoa Castile—Pure white, made of natural quality cocoanut oil, lathers freely in hard water, wrapped.
1Y4152—1 doz. in box. Doz. $1.05
1Y4161—60 cakes in case. Case, $4.95

"Ideal" Hardwater Cocoa Castile—3½ oz. cakes, white "Cocoin" cocoa nut oil.
1Y4050—100 in case. Case, $3.95

"Koke Palm" — 3 oz. pure vegetable soap, 100 cakes in case.
1Y4380—100 cakes in case. Case, $4.00
Lots of 5 cases (freight prepaid to points east of Minneapolis, Iowa, Missouri, Arkansas and Louisiana). Lots of 5 cases. Case, $3.95
Lots of 5 cases freight prepaid to points west of Minneapolis, Iowa, Missouri, Arkansas and Louisiana). Lots of 5 cases. Case, $3.95

PINE TAR SOAPS

Fine Tar—2¼ oz. oval cake, French milled, lathers freely.
1Y4353—3 doz. in box. (Total 90c) Doz. 45c

"Mechanics"—3½ oz. oval cake, pine tar and pumice, French milled.
1Y4354—1 doz. in box. Doz. $7.50 Doz. 65c

Glycerated Pine Tar—Glycerine soap base, for general use, for toilet, bath, shampoo, removes dandruff, soothes the scalp.
1Y4358—1 doz. in box. Doz. 85c

"PARAGON" TOILET SOAPS

There is a high standard of quality set for "Paragon" soaps and strictly adhered to in their manufacture. Every number is profitable for you.

Note: See our showing of "Paragon" toilet preparations on nearby page.

1Y4373—**Benzoin Skin Soap**—3½ oz. oblong cake, as pure as soap can be made, with benzoin known for its healing and soothing qualities, each cake in parchment wrapper, printed. 1 doz. in counter display box. Doz. 95c

1Y4370—**Conservatory Series**—3½ oz., round tablets, delicately scented and colored, 4 kinds, asstd. Narcissus (white), Orchid (pink), Jonquil (lemon) and Azalea (purple). 1Y4370—1 doz. in hinged display box. Doz. 95c

1Y4014—**Cocoa Hard Water Castile**—Bar 5¼ oz., cake, pure white cocoanut oil soap, lathers freely in any water, each cake wrapped.
1Y4014—1 doz. in box. Doz. 85c
1Y4013—50 in case. Case, $3.95

1Y4209—**Pure Olive Oil Castile**—4 oz. square cuts, made by a Spanish process from virgin olive oil, pure and perfect.
1Y4209—1 doz. in box. Doz. 98c

1Y4260—**Peroxide Antiseptic Soap**—For toilet and bath, highest quality and purity available, contains peroxide, delicate pink color, fine odor. 1Y4260—2 doz. in box. Doz. 95c

1Y4242—**Hygienic Soap**—4 oz. cake, made of vegetable oils, pure white, antiseptic for toilet and bath, "nurses' and nurses' use, lathers freely in any water, 10 cakes in case.
1Y4242—1 doz. in counter display box. Doz. $1.05

Torrington VACUUM CLEANER

Special FREE Advertising Offer

To merchants ordering 3 or more "Torrington" Vacuum Cleaners during the month of June we will furnish free the following advertising matter to help retail selling. By making use of these dealer helps you will key up with the most extensive national advertising drive which has ever been placed before the public by a manufacturer of Vacuum Cleaners.

FREE with Your Order for 3 "TORRINGTON" Vacuum Cleaners

(1) 250 attractive four-page circulars in colors with your name imprinted.
(2) Two colored display posters.
(3) Electrotypes for newspaper advertising.

Use Post Card

To get in early on this proposition, fill out and mail the post card facing this page.

FREE with Your Order for 6 or 12 "TORRINGTON" Vacuum Cleaners

(1) 500 attractive four-page circulars in colors with your name imprinted
2) Two colored display posters
3) 100 special tag lines
(4) Slide with your name imprinted for use in moving-picture theatres.
(5) Special colored cutouts for use on counters, show cases or in windows
6) Attractive window trim reproduced in four colors.
(7) Electrotypes for newspaper advertising.

Send Us Your Advertising Bill and Secure a Refund

With an order for 6 "Torringtons" we will refund 30% of your total expenditure for newspaper space, the total amount payable to you not to exceed $300.00.

With an order for 12 "Torringtons" we will refund 50% of your total expenditure for newspaper space, the total amount payable to you not to exceed $750.

This application to be signed by whom the "Torrington" is featured alone. To secure this refund it will be necessary for you to send us the paid invoice from the paper together with page from the paper containing the advertisement and statement of your rate with the newspaper.

(This offer covers advertising run up to and including July 15, 1920)

National Advertising IS CREATING THE DEMAND FOR "TORRINGTON" CLEANERS

By national advertising the public have been educated to look for the "Torrington" Vacuum Cleaner. They know the special features that make this machine supreme.

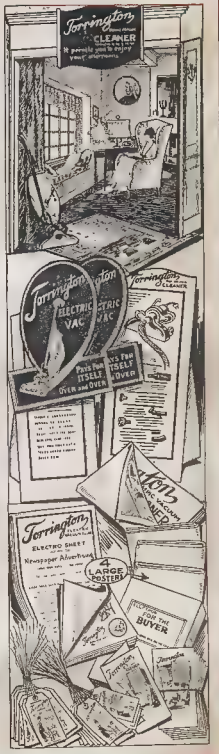
When your customers ask for these features in your store, they know that it is the machine they have been looking for.

We urge you, Mr. Dealer, to set up with this national campaign and get a stock of "Torrington" Vacuum Cleaners in your hands to supply your trade.

See Opposite Page for Description and Prices

Suggestion for "TORRINGTON" Window Trim

These Dealer Helps FREE

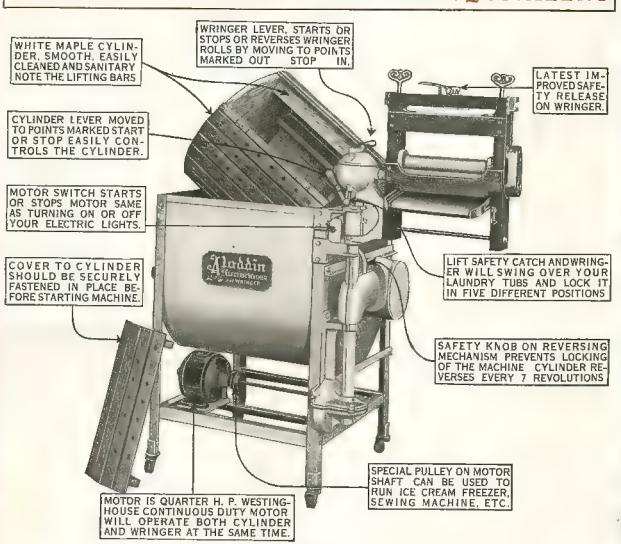


Aladdin ELECTRIC WASHER

WITH SWINGING WRINGER

Handling an up-to-the-minute electric washer such as the "Aladdin" will not only help to increase your profits but will add prestige to your store. There is a rapidly increasing demand for high grade, well finished washing machines with modern equipment. Display and demonstrate these machines, secure your share of this growing business and the increase of profits to be derived therefrom. In stock ready to ship.

CAPACITY SIX SHEETS OR THE EQUIVALENT


WHITE MAPLE CYLINDER, SMOOTH, EASILY CLEANED AND SANITARY NOTE THE LIFTING BARS
WRINGER LEVER, STARTS OR STOPS OR REVERSES WRINGER ROLLS BY MOVING TO POINTS MARKED OUT STOP IN.
LATEST IMPROVED SAFETY RELEASE ON WRINGER.
CYLINDER LEVER MOVED TO POINTS MARKED START OR STOP EASILY CONTROLS THE CYLINDER.
MOTOR SWITCH STARTS OR STOPS MOTOR SAME AS TURNING ON OR OFF YOUR ELECTRIC LIGHTS.
COVER TO CYLINDER SHOULD BE SECURELY FASTENED IN PLACE BEFORE STARTING MACHINE.
LIFT SAFETY CATCH AND WRINGER WILL SWING OVER YOUR LAUNDRY TUBS AND LOCK IT IN FIVE DIFFERENT POSITIONS
SAFETY KNOB ON REVERSING MECHANISM PREVENTS LOCKING OF THE MACHINE CYLINDER REVERSES EVERY 7 REVOLUTIONS
SPECIAL PULLEY ON MOTOR SHAFT CAN BE USED TO RUN ICE CREAM FREEZER, SEWING MACHINE, ETC.
MOTOR IS QUARTER H. P. WESTINGHOUSE CONTINUOUS DUTY MOTOR WILL OPERATE BOTH CYLINDER AND WRINGER AT THE SAME TIME.
Aladdin

Body all metal, double seamed, smooth finish at top and inside, 1 piece cover with handle. **Painted** 3 coats in white enamel. **Cylinder** white maple, smooth, easily cleaned and sanitary, revolves 6 times and reverses without slightest jar. **Wringer** with safety release, swings and locks in 5 different positions, best quality 11 in. power electric rubber rolls. Washer and wringer may be operated at the same time or either one separately. **Westinghouse Motor,** ¼ horsepower, 110 volts, 60 cycle, **alternating** current. **Direct** current can be furnished at a slight delay. BE SURE TO SPECIFY whether for alternating or direct current, voltage and cycle wanted.

W3710 — Galvanized steel body, capacity 6 sheets. Crated, 260 lbs. Each, **$102.00**

W3711 — Copper body, capacity 6 sheets. Crated, 260 lbs. Each, **$124.00**

American Chicle Co's CHEWING GUM

We can ship this gum at once—no delay in filling your order. An advantageous purchase made recently has provided us with uncommonly large supply. Present demands are excessive with available supplies inadequate to meet all requirements. Unless you order now you may find it difficult to get stock and suffer a loss of business. Better order what you need today and make sure.

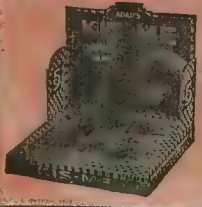
EXPRESS CHARGES WILL BE PREPAID ON ORDERS FOR 60 AND 100 BOX LOTS

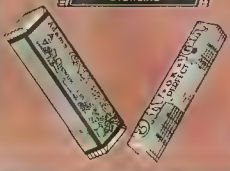
Standard quality, nationally advertised brands of chewing gums. **Lots may be made up of solid or assorted kinds** at these prices, except Beeman's gum, which, if ordered with assortments of other brands, is charged at quotations named—quantity limited.

2Y8604—Adams' Yucatan.	2Y8617—Beeman's Pepsin.
2Y8605— " Pepsin.	2Y8618—Adams' Kn-Me
2Y8607— " Sen Sen.	2Y8619— " Cal Fruit
2Y8609—Blood Berry.	2Y8649— " Blk. Jack
2Y8610—Adams' Chiclets.	2Y8663—Sterling Cinnamon
2Y8611—O. K. Pepsin.	2Y8671 Adams' Spearmint

20 PACKAGES IN BOX

LOTS of 100 boxes	Box 62c	LOTS of 60 boxes	Box 63c
LOTS of 10 boxes	Box 64c	LOTS of 5 boxes	Box 65c





SUMMER CANDIES

These well known specialty candies are staple sellers and will afford you quick turnover and liberal profits. Order today.

BORDEN'S ALMOND CHOCOLATE BAR

2Y1645—Sweet milk chocolate, with whole almonds, each bar wrapped and sealed, standard size. 24 bars in box

Box **$1.15**

KLEIN'S CREAM NUT BAR

2Y1962—High grade milk chocolate with whole roasted almonds, full wrapped, 1 doz banded 2 doz in box

. . . . . Box. **96c**

"IDEAL" CHOCOLATE ALMOND BAR

2Y1441—The original large bar, sweet milk chocolate with toasted almonds, wrapped 24 in box

Box **$1.20**

WONDER CHOCOLATE BAR

2Y1498—Heavy chocolate coating soft flowing cream center, maple flavor with heavy layer of fruit jelly each bar wrapped 2 doz. in box

Box. **$1.15**

SPECIAL PACKAGE AND BAR CANDY ASST.

This assortment consists of ten of the items shown on this page. Buying them in this form affords you a considerable saving. The kinds are well known and the assortment at the low price we quote offers big possibilities for profit.

2Y1098—10 kinds, 10 boxes, one each of the following as shown on this page

2Y1645—Borden's Almond Bar.
2Y1487—Auerbach's M. M. Bar.
2Y1464—Auerbach's Asstd. Chocolates.
2Y1469—Auerbach's Milk Chocolate Bar.
2Y1462—Auerbach's Chocolate Fruit Cake.
2Y0158—Mazarr Milk Chocolate Bar.
2Y3195—Pineapple Punch.
2Y7031—Strawberry Punch.
2Y3196—Wonder Bar.
2Y3195—Tingalin Lunch.

Asstd. 10 boxes in shipping container.

ASST (10 boxes) . . . **$9.95**

STRAWBERRY PUNCH BAR

2Y0034 Heavy chocolate coating, strawberries sliced and and worked in high grade cream center each bar wrapped in attractive colored wrapper. 2 doz. in box

Box **$1.15**

"TINGALIN" LUNCH BAR

2Y3195—Flaked molasses chips, coloured over chocolate cream bar all over chocolate dipped each bar wrapped 2 doz in box Box **$1.15**

AUERBACH'S PACKAGE CHOCOLATES In Package

2Y1464—Asstd wrapped chocolates 12 pkgs in box . . . Box. **95c**

AUERBACH'S SWEET CHOCOLATE, FRUIT CAKE AND MARSHMALLOW BARS

Milk Chocolate Bar—Sweet milk chocolate plain 2Y1469—24 in box

Box. **95c**

Fruit Bar—Chocolate coated. 2Y1462—24 in box

Box **95c**

Marshmallow Bar—Rich cream alloy center chocolate covered. 2Y1487—24 in box

Box. **95c**

"MAZARR" AND "RAINBOW" CHOCOLATE BLOCKS—Two Well Known Favorites

Mazarr—Solid block of high grade sweet milk chocolate of excellent flavor, unwrapped.

2Y0158—24 in box

Box. **96c**

Rainbow—¼ oz. solid block of rich grade plain sweet milk chocolate delicious melting and of high food value

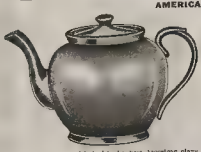
2Y1959—20 unwrapped blocks in box

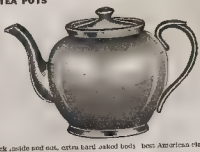
. . . Box. **$1.75**

TEA POTS AMERICAN & ENGLISH

Every One Priced Right. We offer here an excellent variety of handsomely decorated tea pots that have a strong selling appeal. They sell readily and bring good returns. Order from this showing now, and know that you are getting really reliable goods.

AMERICAN MONARCH GLOBE TEA POTS





Brown inside and out, extra hard baked body, best American clays, well glazed, strictly first selection. ½ doz. in pkg.

E344—4½". 2 cups. 18 oz.	Doz.	$4.25
E345—6¼". 3 " 54 "	"	4.95
E346—7¾". 4 " 80 "	"	Temp. Out
E347—8¾". 6 " 48 "	"	7.50

Jet black inside and out, extra hard baked body, best American clays, well glazed ½ doz. in pkg.

E3252—4¾". 2 cups. 18 oz.	Doz.	$4.25
E3253½. 5¼". Spec. 4 cup	"	4.95
E3255—7¾". 4 cups. 54 oz.	"	6.10
E3254—8¾". 6 cups. 80 oz.	"	7.50

ENGLISH ROCKINGHAM TEA POTS

"Cresswell"—Jet black, silver enamel decor., and decor. on edge, handle, spout & cover, gold lined metal top, all decors. burn in, will not wear off. Highly glazed inside and out. ½ doz. in pkg.

E385—6". 2½ pt. 12 "	Doz.	$ 9.00
E386—7". 3½ " 18 "	"	12
E387—8". 5 " 24 "	"	15
E388—8½". 8½ " 30 "	"	18

"Dresden"—Fine English ware. Jet black body, glazed inside and out, colored enamel and gold stamped medallions, ornamental and scallops in wide border effects, gold decors. burn in and will not wear off. ½ doz. in pkg.

E371—4¾". 1¼ pt., 4½ in.	Doz.	Temp. Out
E372—6". 2 " 4½ "	"	"
E373—8". 3 " 6½ "	"	"

COOKING WARE BROWN & WHITE

Light weight extra hard baked, strictly first selection, uniform rich brown glaze outside, clear white glaze inside, all pcs. fired in high temperature. Nesting sizes strong and durable, guaranteed against crazing. 1 doz. in package.

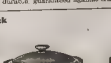
BROWN & WHITE COOKING WARE—Open Stock

Casserole

Bean Bakers

Pudding Pans

Round Handled Casserole



Round Casseroles

Round Bowls

Custards—

E56—3½x2¾, cap. 7 oz.	Doz.	$0.92

Pudding Pans—

E19—4.4½, cap. ½ pt.	Doz.	$1.44
E17—5¼x2 " ¾ "	"	2.00
E16—6¾x2¾ " 1¼ pts.	"	2.25
E15—7¾x2¾ " 2 "	"	3.00

Bean Bakers—

E55—3½x4½, cap. 3 pts.	Doz.	$4.75

Round Hdld. Casseroles—

E11—6½.5, cap. 1¾ pts.	Temp. Out	

Round Casseroles—

E5—7 in., cap. 2 pts.	Doz.	$6.00
E5—8 " 3 "	"	8.40

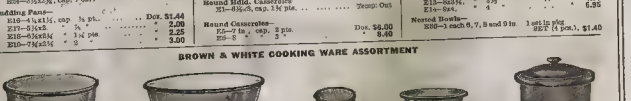
Roun Casseroles—

E15—6x3, cap. 1¾ pts.	Doz.	$2.25
E13—7x3½ " 3 "	"	3.00
E12—8x3½ " 4 "	"	4.95
E14—8x4 " 4 "	"	5.35

Round Bowls—

E80—3 each 6, 7, 8 and 9 in.	1 set in pkg.	
	SET (4 pcs.),	$1.40

BROWN & WHITE COOKING WARE ASSORTMENT



E37—Extra hard well baked first quality stoneware body rich brown outside glaze with pure white lining. Asst. comprises.

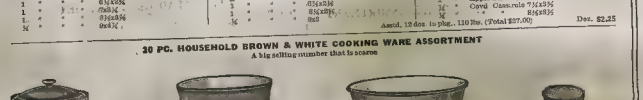
1	doz. Mixing Bowls	3¼x2¾,	1	Doz. Pudding Pans	6x1¾
1	"	4½x2¾,	1	"	5½x1¾
1	"	5½x2¾,	1	"	5¼x1¾
1	"	6x2¾,	1	"	4¾x1¾
1	"	6¾x3¾	1	"	8¼x2¾,
¼	"	9x3¾,	¼	"	9x3¾

1	Doz.	Custards	3¼x2¾
1	"	"	3½x3¾
1	"	Apple Bakers, brown lined,	4½x1¾
½	"	Covd Casserole	7½x3¾
¼	"	"	8½x3¾

Asstd. 13 doz. in pkg., 110 lbs. (Total $27.00) Doz. $2.25

30 PC. HOUSEHOLD BROWN & WHITE COOKING WARE ASSORTMENT

A big selling number that is scarce



E38—Extra hard well baked first quality stoneware body rich brown outside glaze with pure white lining. Asst. comprises.

1	7 in. Round Casserole.	1	7 in. Mixing Bowl.	1	7 in. Pudding Pan.

35 sets in pkg., Set.

6	3 in. Custard Cups.	Temp. Out	
1 set in pkg., SET (10 pcs.),			

SEMI-PORCELAIN BOWLS & SETS

usually attractive both from the point of variety and the rock-bottom prices we name

Popular Priced Goods are the ones that bring the retailer the big volume of sales and net the best profits. The line shown here is unequalled. Goods in stock ready to ship NO PACKAGE CHARGE

SEMI-PORCELAIN SALAD OR BERRY BOWLS

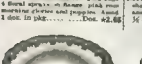
E642 3 decors., 8½ in. gold edge 6 floral sprays, flower pink rose morning glories and poppies. Assrtd 1 doz. in pkg. ..... Doz. $2.65

E643 3 decors., 8½ in., plain shape 3 large sprays pink roses and wild roses gold edge. Assrtd. ½ doz. in pkg. ..... Doz. $2.75

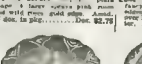
E644 3 decors., 8½ in. deep new shape embossed scallop edges. In pink roses and orange all over raised lustre fruit cluster center. Assrtd. ½ doz. in pkg. Doz. $2.86

E676 6 decors., 8½ in. deep rose peony, wild rose, blackberry. Wide gold rose and 3-line borders gold edges. Assrtd 1 doz. in pkg Doz. $2.95

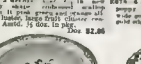
E665—3 decors., 8½ in. fancy shape, wide gold floral diamond border, gold edges and inner scroll lines and convex fruit and white roses and chrysanthemums. Assrtd ½ doz in pkg Doz. $2.95



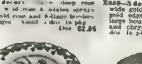
E696 3 decors., 8½ in. embossed scallop edges, wide gold line border, large bouquet red roses pink and white peonies, lustre green and orange centers. Assrtd 1 doz in pkg Doz. $2.96



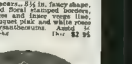
E654 3 decors., 8½ in., fancy pansy shape, tinted red and yellow tones, in green, tan and pink all-over lustres with shadow green wreath and orange lustre band. Assrtd ½ doz in pkg Doz. $2.96



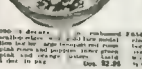
E684—3 decors., 8½ in. Hint, wy, plain shape, wide gold edge, floral garland borders, wreath and wild flower sprays in natural colors. Assrtd ½ doz. in pkg Doz. $2.75



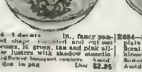
E6045—3 decors., 8½ in., fancy shape, scallop edges, gold floral stamped border, wild flower sprays centers. Assrtd ½ doz in pkg Doz. $3.25



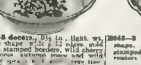
E655—3 decors., 9½ in. deep shape, embossed scallop edges, assrtd green lavender and orange lustre and luster backgrounds large floral bouquet centers. Assrtd ½ doz in pkg Doz. $3.75



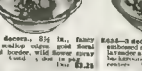
E668—3 decors., 8½ in. fancy deep shape, embossed scallop edges, green orange and lavender lustre borders, large fancy bouquet centers, gold floral embossed edges. Assrtd ½ doz in pkg Doz. $6.40



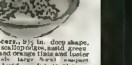
E694—6 styles, 8½ in. rose deep shape, assrtd floral sprays, assrtd foliage assrtd color lustre backgrounds, embossed edges. Assrtd ½ doz in pkg Doz. $5.40



E696—3 fancy shapes, 10½ in., blended green, orange and tan lustres, assrtd poppy, autumn and wild rose centers. Assrtd. ½ doz in pkg ..... Temp. Out



E672—3 styles, 10½ in., Easter fruit decor, painted and embossed color, 2 sprays of apples, pears, peaches, blossoms, foliage, blended luster sides, ½ doz. each decor Assrtd. ½ doz. in pkg..... Doz. $6.00



P816 3 decors., 11½ in. rose green & luster centers, assrtd colors large rose centers, gold embossed edges, assrtd shapes Assrtd ½ doz in pkg Doz. $6.00

E615 6 decors., 10½ in., panneled embossed edge, allover pink, lavender, brown and green blended lustres, floral centers. Assrtd. ½ doz. in pkg... Doz. $6.00

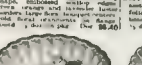
E667—3 decors., 10½ in., green, brown and orange lustres with shadow leaf effects, pansy, rose and large grape cluster centers. Assrtd ½ doz. in pkg. Doz. $6.00

E675—10½ in., plain deep shape No 18, gold band edge, gold lace border, large bunch blue grape center. ½ doz. in pkg. Doz. $6.75

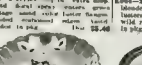
E686—3 decors., 10½ in. fancy deep shape, shaded it, green and blue lustres, luster and white tinted floral sprays and wreath borders, white roses in center ½ doz. in pkg. Doz. $6.00

P814—3 decors., 10½ in. fancy shape, embossed scallop edges, shaded it, green and blue lustres, luster and white tinted floral sprays and wreath borders, white roses in center ½ doz. in pkg. Doz. $6.00

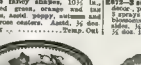
SEMI-PORCELAIN SALAD OR BERRY SETS



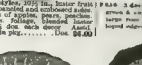
F173—8 decors., bowl 9¼, SIX fruits 5½, poppies, pink and yellow roses, nasturtiums and apple sprays, wide gold edge. Assrtd 1 set in pkg. Temp. Out



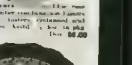
F700 7 decors., bowl 9½, SIX fruits 5, assrtd floral sprays, gold lace border, large floral sprays, assrtd colors in pkg. Temp. Out SET (7 pcs.)



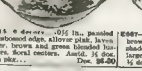
E421—Bowl 8¾, SIX fruits 5¼, plain shape, gold lace border, large white rose sprays. 1 set in pkg SET (7 pcs.). $1.10



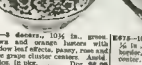
E688 Bowl 9 in., SIX fruits 5½, green luster edge, large cluster ripe fruit. 1 set in pkg SET (7 pcs.). $1.15



E430—Bowl 9 in., SIX fruits 5, dark green luster edge, gold lace border, large fruit cluster. 1 set in pkg. SET (7 pcs.). $1.15

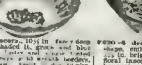


F461 Bowl 9¼ in., SIX fruits 5, assrtd. wide peacock blue band, embossed scallop edges, assrtd floral wreath, large pink rose and wild flower bouquet centers. 1 set in pkg. SET (7 pcs.). $1.15

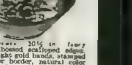


F464 Bowl 9¼ in., SIX fruits 5¼, fancy deep shape, alternate pink shadow leaves and apple blossom luster border, gold edge and large floral sprays. 1 set in pkg. SET (7 pcs.). $1.25

E426 Bowl 9 in., SIX fruits 5½, plain shape, assrtd color lustre edges, gold floral festoons, russet shaded poppies. 1 set in pkg. SET (7 pcs.). $1.30



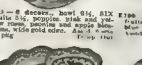
E421—Bowl 8¾, SIX fruits 5¼, plain shape, lt. green luster border, wide gold floral wreath, large white roses 1 set in pkg. SET (7 pcs.). $1.35



E484 1 set in pkg. SET (7 pcs.). $1.45

9 1-2 IN. SEMI-PORCELAIN SALAD BOWL ASSORTMENT

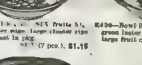
New shape, good size. Exceptional value at this price



F684 8 decors. size 9½ in. new fancy shape embossed scallop edges, 4 pink apple and orange allover luster range fruit decor Assrtd 1 doz in pkg $2.85

7 PC. SALAD OR BERRY SET

Large bowl and 6 saucers, American semi porcelain, attractive fruit decoration



F493—Bowl 9 in., SIX saucers 5½ in., green luster edge, large cluster ripe fruit. 1 set in pkg $1.15

JUNE SPECIALS

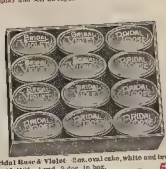
Hot, dusty weather always results in an increased demand for soaps. Supply your needs now and be prepared to meet requirements.

POPULAR PRICED TOILET SOAPS

Extensively advertised bundle of to..et an..bath soaps which sell themselves to attractive display and sell on sight

Turkish Bath—4½ oz., milled, brown, pink and green
1Y4006—Assrd. 3 doz. in box
Gro **$4.35** Doz. **38c**

Olive Oil Castile—Square cake green, French milled
1Y4184—2 oz. Doz. **45c**
1Y4180—3½ " " " **89c**



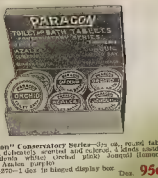
Bridal Rose & Violet—3 oz. oval cake, white and brown.
1Y4181—Assrd. 2 doz. in box. Doz. **57c**

"Menorum" Bath Tablets—3 oz. round tablets. Six milled stock printed odors, three colors and odors perfume white carnation pink elderflower green.
1Y4231—Assrd. 3 doz. in wood box.
Gro **$3.35** Doz. **82c**

Graham's Bath Tablet—Pure white, perfumed, large round cake.
1Y4044—1 doz. in box Doz. **$1.15**

Kirk's Lilac Bath Tablet—Round cake pure milled stock assrd. colors, lilac odor
1Y4197—1 doz. in box Doz. **90c**

"Paragon" Garden Series—5K oz. square tablets, appropriately scented and exclusively colored, violet, violet, Russian vetiver, lavender (yellow) Mignonette brown and Lavender
1Y4272—4 doz. in lined display box Doz. **95c**



"Paragon" Conservatory Series—3½ oz. round tablets, distinctly scented and colored, 4 kinds, stand Gardenia (white) Orchid (pink) Jonquil (lemon) and Azalea purple
1Y4270—1 doz. in lined display box Doz. **95c**

"Paragon" Peroxide Antiseptic Soap—For toilet and bath. Highest quality and purity attainable; contains peroxide. Delicate pink color, fine odor
1Y4200—1 doz. in box Doz. **95c**

"Quaker Bouquet"—3½ oz. flat oval cake. 1st quality milled stock. 3 colors, white, pink and green perfumed
1Y4185—3 doz. in wood box.
Gro **$3.35** Doz. **85c**

JERGENS' VIOLET GLYCERINE SOAP

Free Glass Display Jar 30 sample cakes included free with each gross.

Hexagon shaped, clear glass jar, holding 40 cakes, with one cake removed, neatly sealed in display top. An effective way to show this popular nationally advertised soap

1Y4117A Violet glycerine transparent soap cake stamp wrapped 1 gro. in case with display Jar
Gro **$14.00**

"Big Value" Asst. 4 kinds 2½ oz cakes buttermilk, watch maid rose and oatmeal, pure hard milled stock
1Y4327 Assrd. 100 cakes in case Case **$4.10**

JUNE SPECIALS

The demand for bath and toilet soaps always takes an upward trend during the summer months. Be prepared. Order NOW.

BIG SELLING TOILET SOAPS

Six well known brands that are always in demand the volume of business increases

Give these soaps prominent display and see how suddenly

Grahams "Olive Cream"—Made of olive palm and cocoanut oils so pure as soap can be made, highly perfumed, for its splendid quality, each cake wrapped and banded
1Y4046—1 doz. in display box Doz. **$1.08**

"Battle Creek" Sanitary—Cake antiseptic and healing, recommended by physicians and nurses wrapped 3 cakes in box.
1Y4076—1 doz. (3 boxes) in pkg Doz. **$1.30**
Gross **$15.00**

"Del Gloria" Olive Castile—4 oz. white, pure olive castile Spanish process square cuts
1Y4028—5 in box Box, **$1.50**

"Ye Olde English"—3 odors, large oblong cake, assrtd. elderflower, oatmeal and honey.
1Y4024—Assrtd. 1 doz. in carton Doz. **$1.75**

"Remmo" Sterilized—Well known, fine milled assrtd. of toilet soap, double wrapped, sanitary package.
1Y4030—50 in case Case, **$3.75**

Sweetheart
Sweetheart
Sweetheart

LAWN MOWERS

A line that gives supreme satisfaction. The product of a big reputable manufacturer. An effort to match these remarkable values will reveal your advantage in buying here. "Diston" crucible steel blades, adjustment unnecessary. Note the "Electric" brand ball-bearing ratchet mowers at extraordinary prices. Buy these big values for good profits

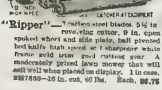
"BELMONT" LAWN MOWERS

"Ripper"—[illegible] steel blades, 5½ in. revolving cutter, 9 in. open spoked wheel and side plate, ball pivoted bed knife; high speed or sharpener while frame and cutter bed cutting gear. A moderately priced lawn mower that will sell well when placed on display. 1 in case.

2H17859—16 in. cut, 40 lbs.	Each	$6.75

"Terrace Special"—[illegible] steel blades, 5 inch spiral and tempered steel blades, 5½ in. diam. revolving cutter; adjustable sharpener, [illegible] wheels; great wind resisting wheels; [illegible] cutting gear, ball bearing. 1 in case

2H21031—17 in. cut, 52 lbs.	Each	$6.75
2H21033—18	"	58	"	7.50
2H21034—16	"	50	"	6.75
2H21035—18	"	55	"	7.50
2H21036—16	"	40	"	6.00



"Triumph"—[illegible] steel blades, 5½ in. revolving cutter, high speed ball bearing sharpener, [illegible] body, knife and bed of close fitting wheels, cutters with fine new adjustment, light and easy running. 1 in case

2H17844—14 in. cut, 40 lbs.	Each	$6.85
2H21030—16 "	45 "	6.95

"Red Peerless"—[illegible] drive wheels, [illegible] steel blades, 5½ in. diam. revolving cutter, high speed sharpener, [illegible] wheels, [illegible] bed trips, cutters with new adjustment, [illegible] ball bearing. 1 in case

2H17841—12 in. cut, 44 lbs.	Each	$6.75
2H17839—14 "	45 "	7.00
2H17843—16 "	48 "	7.25
2H17842—18 "	50 "	7.50

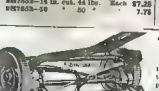
"Liberty"—9 in. drive wheels, 3 hardened and tempered steel blades, 5¼ in. diam. revolving cutter, white body, black and gold trim. 1 in case.

2H17835—14 in. cut, 44 lbs.	Each	$7.25
2H17835—16 "	50 "	7.75

"High Wheel Park"—[illegible] drive wheels, [illegible] steel blades, [illegible] revolving cutter, [illegible] sharpener, [illegible] with new adjustment, [illegible] wheels, [illegible] bed trips, cutters with new adjustment, [illegible] ball bearing, [illegible] silver bronze finish, [illegible] wheels with red bronze center. 1 in case

2H17865—16 in. cut, 50 lbs.	Each	$9.50
2H17866—18 "	54 "	9.95

"BELMONT" BALL-BEARING RATCHET LAWN MOWERS



8 in. drive wheels, 3 tool steel hardened and tempered blades, 5 ... in diam. revolving cutter, ... inch cutter ball-bearing ratchet high speed ... journals, self sharpener, ... green body, red trim

2H11810—[illegible] in. cut	16 in. cases	Each	$4.85
2H11811—14 "	1 "	"	5.25
2H11812—16 "	1 "	"	5.65

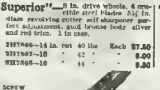
"MOHAWK" LAWN MOWERS

"Superior"—8 in. drive wheels, 4 cruc[illegible] steel blades 5½ in. diam revolving cutter self sharpening parts, best adjustments, good bronze body silver and red trim. 1 in case.

2H17846—14 in. cut 40 lbs.	Each	$7.50
2H17847—16 "	42 "	8.00
2H17848—18 "	44 "	8.50

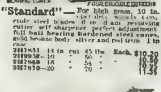
"Standard"—For high grass, 10 in. [illegible] steel blades, 5½ in. diam. revolving cutter, high speed sharpener, [illegible] adjustment, full ball bearing hardened and tempered bronze bed; silver and red trim. 1 in case

2H17851—14 in. cut 45 lbs.	Each	$10.70
2H17852—16 "	54 "	10.95
2H17853—18 "	56 "	11.20
2H17870—20 "	70 "	11.45



"Aero"—For high grass, 10 in. open drive wheels, 3 [illegible] steel blades, new adjustable frame, 5½ in. diam. revolving cutter, [illegible] steel ball pivoted bed knife, dustproof ball-bearing cutter, silver bronze body, gold bronze cutter bed and black striped. 1 in case

2H17838—16 in. cut 54 lbs.	Each	$9.75
2H17839—18 "	56 "	10.25
2H17853—20 "	58 "	10.75

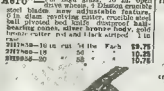


"King"—Built on lines of Pulls mower which [illegible] revolving cutter, [illegible] steel, [illegible] and [illegible] in its class; cutting journals dustproof, [illegible] ball bearing, [illegible] body, [illegible] per bronze finish silver bronze and green trim. 1 in case

2H17849—16 in. cut, 54 lbs.	Sa.	$12.25
2H17871—18 "	70 "	12.75

"Majestic" Triple Gear—[illegible] grass to [illegible] to open drive wheel, 3 hand forged crucible steel [illegible] tempered ball-bearing cutters, fitted with triple train of gears, patent adjustment not on any other mower, [illegible] bronze, [illegible] quartered oak handle, frame white enamel, black stripes and gold bronze trim, cutting gear gold bronze. 1 in case

2H28855—16 in. cut, 65 lbs.	Each	$16.25
2H17872—18 "	70 "	16.75
2H17850—20 "	71 "	16.25



"BELMONT" GRASS CATCHERS

Galvanized sheet steel bottom. Heavy canvas sides. Quickly attached or detached.

2H21960—Adjustable 12 to 16 in. plain pattern square barbs. 1 doz. in fiber carton. Doz. $9.85

2H21954—Adjustable 12 to 16 in. neo-elliptique bottom prevents grass from slipping forward. Steel bracket with [illegible] to attached to mower handle. 1 doz. in carton. Doz. $11.85

2H21955—Same as 2H21954 but in large round pattern with [illegible] bar. Grass from slipping forward. Round bottom gives greater capacity. Painted wire handle. 1 doz. in carton. Doz. $16.75

2H21950—Adjustable 12 to 16 in. plain pattern square barbs. 1 doz. in fiber carton. Doz. $10.30

"ELECTRIC" BALL-BEARING RATCHET LAWN MOWER

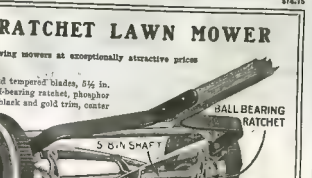
Made exclusively for Butler Brothers. Substantial, satisfaction-giving mowers at exceptionally attractive prices

Ball-Bearing Ratchet

Bed Pivoted Bed Knife

8 in. drive wheels, 3 tool steel hardened and tempered blades, 5½ in. diam. revolving cutter, ⅜ in. center shaft, ball-bearing ratchet, phosphor bronze journals, self-sharpener, ft. green body, black and gold trim, 1 in. deep red. 1 in case.

2H19954—10 in. cut, 34 lbs.	Each,	$5.50
2H17854—12 in. cut, 37 lbs.	Each,	*5.50
2H17855—14 in. cut, 39 lbs.	Each,	*6.00
2H17856—16 in. cut, 40 lbs.	Each,	*6.25
2H17857—18 in. cut, 43 lbs.	Each,	*6.60



KITCHEN CABINETS

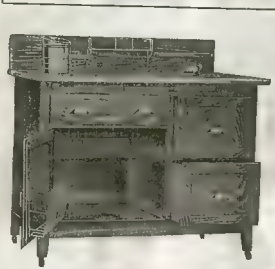
Well built, scientifically constructed cabinets, embodying all the latest improved features. Every essential detail has received expert attention, developing from selected woods a kitchen utility needed in every home.

FEATURING All corners and edges rounded, all joints mortised and screwed, guaranteed not to sag or pull apart.

Aluminum Top—Extra heavy sliding wood base tin-lid ; paraffine solution which prevents aluminum covering from warping or buckling

Porcelain Top—Made of 17 gauge sheet steel, with 3 coats sanitary white porcelain baked on.

Finish—Interior of upper cupboards have 2 and 3 coats of white enamel Exterior, 3 coats of the best grade spar varnish



"UTILITY"

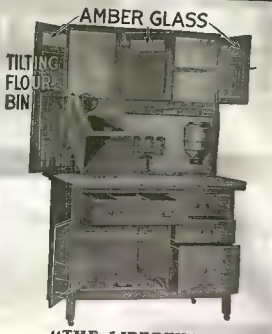
Solid Indiana white oak, golden finish height 87½ in top 20x46 in , metal cake and bread box, roomy cupboard for pots and pans, sliding wire shelf, wire meat pulls and hangers, sanitary legs. Crated, 185 lbs.

P8005 17 gauge white genuine porcelain top . . Each, **$28.50**

"KITCHEN QUEEN"

Indiana oak, golden finish, upper interior white enamel ht. 70 in , sliding top 22x42, metal cake and bread box, moisproof bottom, sifting flour bin with sifter (cap 50 lbs) all of the wire pan tray sliding wood tray 6 glass spice jars, coffee, tea and salt jars glass sugar jar on swinging bracket. Crated 250 lbs.

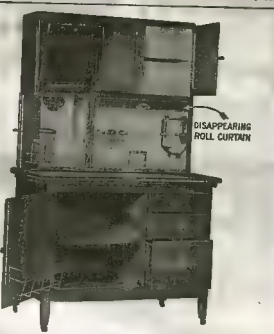
	Temp. Out
P8007—Aluminum non-warpable top Each,	
P8008—17 gauge, genuine white porcelain, sanitary sliding top,	Temp. Out



"THE LIBERTY"

Indiana white oak golden finish upper interior white enamel ht 70 in , sliding top 22x42 dustproof side roll curtain, metal cake and bread box removable tilting flour bin (cap 50 lbs), wire shelves and pan racks large partitioned top drawer under pastry board, amber glass panels moisproof bottom 6 ply back, complete set of 6 spice jars, tea, coffee and salt jars, glass sugar jar on swinging bracket Crated 250 lbs.

P8019—Aluminum non-warpable top . . . . . Each,	**$43.50**
P8020—17 gauge genuine white porcelain top, "	**46.50**



"PURITAN"

Indiana white oak, golden finish, upper interior white enamel, ht. 70 in , sliding top 22x42, roll curtain, metal cake and bread box, sifting flour bin with sifter (cap 50 lbs., 5 ply back, moisproof bottom, 6 glass spice jars, coffee, tea and salt jars, glass sugar jar on swinging bracket Crated, 250 lbs.

P8009—Nickeled sliding top, ... Each,	**$42.50**
P8010—17 gauge genuine white porcelain sliding top, "	**46.50**

FOLDING CAMP BROILERS

1K1859—20x24, best steel wire adjusting, welded, nickel plated through center by flat steel bars which prevents warping and sagging when hot, aluminum finish, folds flat. 2 doz. in pkg. Doz. $4.50

1K1897—12x24 in aluminized finish, quite practicable, ideal for camping automobilists. 1 in pkg. . . . Each. $1.10

1K1898—12x24, 4 in., heavy wire with aluminum finish folding galvanized steel wire shield. A complete outfit that sells readily. 1 in pkg. Each. $2.00

AMERICAN "KAMPKOOK" STOVE

Size folded 14x8x3 in.

1K1899—The only folding gasoline camp stove designed especially for all outdoor cooking. Ideal for the military motor gasoline. Has two powerful burners, not affected by the wind, absolutely safe. Entire stove including table inclosed in case when not in use. Set up and ready in one minute. Nothing to get out of order. 1 in crate, 3 lbs. . . . . Each. $7.50

"CELLO" CANTEEN

1K1857 — Approx. cap. 1 qt., XXX tin plate removable brown drill cover, strap buttons, strap fastening with straps 1 side concave to fit hip. 1 in box Each. $1.15

HUNTING AND CAMPING CARBIDE LAMPS

Original in design and made especially for sportsmen's use. Just the thing for hunters, fishermen or campers. Made in two parts, water reservoir and carbide container. Every lamp guaranteed perfect in workmanship and material.

1K1872—Lamp and Hunting Searchlight combined, strong durable compact, equipped with reflector for carbide, designed especially for night hunting, fishing, boating, trapping, mining and chores around farm. Lamp is worn on head like cap or hat. Gives a powerful penetrating light a distance of 250 feet, with parabolic reflector and concentrator, insuring a strong reflected ray. Carbide capacity enough to burn 10 hours. 1 in box . . . . . Each. $4.50

1K1870—Reyes Camp Lamp, nickel polished, including pocket carbide can. Reflector equipped with safety lock, no matches required. Valve construction prevents water from flooding carbide. Ideal for trapping, hunting, Camping and Fishing. Burns three hours on a quarter of carbide producing a 25 candle power light, a distance of 75 feet, will not easily blow out. Absolutely smoke, no grease or dirt. Absolutely safe. Can be carried in the hand, hung on belt or fastened on a belt. 1 in box. Each. $1.35

1K1871 Lanterns for Campers & Automobilists, the only automatic generator that acetylene lantern made. Gives a 20 c. p. light, burns 7 to 8 hours with 3 ounces of carbide. Flame will not blow out, controlled by valve, cannot be turned high or low. Lantern frame is heavy nickel plated, drawn brass reflector, nickel silver side flame arm. Each. $4.50

PEROMETER

Registers distance walked

1K900—Registers up to 100 miles, polished nickel watch case, regulates by turning of owner's stride, each step makes 1 swing of pendulum accurate and trouble proof, guaranteed, hooks on pocket, belt, etc. 1 in box. Each. $1.75

"CELLO" MESS KIT

1K1879. 7 pcs., for boy scouts, sportsmen and campers, all double tinned except fry pan, sanitary and durable, easy to keep clean, all pieces nest and fold into khaki lined web sling. 1 kit complete in box Each. $1.85

ROW BOATS CANOES & SUPPLIES

Popular models made by the Dunphy Boat Mfg. Co. Construction and design equal any on today's market. The many superior features help considerably to make quick sales and build up a good business for you. Go after this business.

NOTE: All row boats and canoes are shipped direct from factory at Eau Claire, Wis. consin. Allow from 1 week to 10 days for shipment.

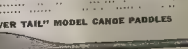
LIVERY ROW BOATS

Especially adapted for use around the average summer hotel and public parks. Is subject to all kinds of hard usage and shows large carrying capacity for ground partties. Light draught making it a very desirable fishing boat.

Keel stem stem post and ribs are made from clear selected white oak, ¾ in. x ¾ in. ribs, spaced 4 in. apart, at center 3 in. Planking of selected white cedar planking ⅜ in. thick, lap strake construction. Floor selected white oak planking, upper rivited through ribs and keel and outer rail, lower fastened to ribs with copper rivets. Seats selected northern fir, strongly braced and rabbeted into heavy oak cleats and stern hooks. Selected northern fir stern sheet braced and rabbeted from fastenings. Material finished decks, seats, stern sheet and strake finished with 3 coats of spar varnish. Hardship gear painted green. 3 coats of spar varnish. Hardship gear painted green. 3 coats of gunwales, 2 pr. of galvanized oar lock sockets, 2 pr. galvanized locks included. Length of boat is measured over outside of gunwales. Beam is measured from outside to outside of gunwale. Depth, from top of gunwale to bottom of keel. 1 in crate.

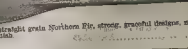
	Length	Beam	Box Bench	Depth Amidship	Bench	Wt.	Each
1K4624—15 ft.	14 ft.	50 in.	21 in.	14½ in.	16½ in.	160 lbs.	$64.50
1K4626—16 "	15 "	54 "	23 "	15¼ "	18 "	175 "	68.75

BOAT OARS



Southern Ash—No. 1 grade, straight grain, plain blades, exceptionally well made.

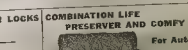
1K4631—7 ft. long . . . . . Pr. $1.05



Northern Fir—Selected, straight grain copper tipped blades nicely finished

1K4614—6½ ft. long . . . . . Pr. $2.10
1K4615—7 " " . . . . . " 2.25

"BEAVER TAIL" MODEL CANOE PADDLES



6 in blade, selected straight grain Northern Fir, strong, graceful design, nicely finished throughout with spar varnish

1K4618—4½ ft. long . . . . . Each $1.25
1K4616—5 " " . . . . . " 1.30

GALVANIZED OAR LOCKS

1K4623 - 1¾ in between horns, malleable iron, each oar lock consisting of socket ready to attach to boat. 1 pr. in pkg. Doz. prs. $4.50

COMBINATION LIFE PRESERVER AND COMFY CUSHION

For Auto or Canoe

1K4617—15½ in. long x 11½ in. wide x 3½ in. thick, Spanish leather covered filled with "Kapok" a marine product of floating power, it supports more than 24 pounds in water 24 hours. 1 in pkg. Each. $1.40

"INDIAN" CANVAS COVERED CANOE

Designed to fulfill the demand for a dependable canoe for cruising, livery and other hard usage. Made lightproof, will not bulge or become waterlogged.

1K4622—16 ft. long 34 in beam 8½ in. deep at ends 18 in. deep amidship. White oak keel skeg and ribs, 1¼x¾ in keel double sawn bent stem, and 5/8x⅞ in. ribs spaced 4 in. apart. White pine cedar battens, ¾ in. thick, inner and outer rails spaced 4 in. apart. White pine cedar planking ⅜ in. long with oak gunwales of clear northern fir, decks of clear white spruce 30 in. long with oak covering boards. Selected white oak coaming clear red birch thwarts and seats covering boards. All fastenings copper and brass. Deck, gunwales and seats hand sanded. All fastenings copper and brass. Deck, gunwales and seats hand sanded. All fastenings copper and brass. Deck, gunwales and seats hand sanded

"PENNANT" BASEBALL MASKS

1K700 — "Youth of League." Made of good size heavy wire with black enamel finish. Small size, with four-prong inside pads. Each ..... Per doz. $3.00

1K701—"Man's League," full size heavy reinforced finish wire with wide head protection, with four-prong inside pads. Each ..... Per doz. $3.50

1K702 — "Semi-Pro" model, with frame with neck protector attachment. Fitted with full length inside pads, padded nose bar and head to fasten. Made of heavy reinforced wire, embossed neck protector, adjustable crushed steel strap. Each ..... Per doz. $6.25

"PENNANT" BASEBALL BASE SET

1K715—Regulation, made of the finest quality extra heavy white canvas, double faced top, was stuffed and finely quilted, complete with straps and spikes. 5 in set. 1 set in box.
SET OF 5. $6.75

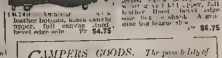
"PENNANT" CATCHERS' BODY PROTECTOR

1K705 Professional style made of the best quality tan khaki canvas lined to form chest of light pressed fiber board, with heavy felt shoulder pads and a long flapped groin protector. Vertical straps at shoulder and waist fastening the whole securely in place. Each $6.75

"PENNANT" BASEBALL SHOES

Real baseball shoe leather, well lined throughout, full length shank, narrow shapes, sturdy construction but light in weight. Spikes are set in rubber soles. Sizes 6 to 11. Specify size.

1K 240 — Amateur ..... leather bottom, hand sewed upper, full canvas lined, flared edge sole ..... Pr. $4.75



1K 241 — "Semi-Pro" ..... sewed upper of finest quality soft calf leather, full canvas lined, hand welt sole, full leather heel ..... Pr. $6.75

CAMPERS GOODS. The pro is big of ... ing an ... and ... ping business in Campers Goods ... to be just what you have a GOOD DISPLAY. The goods we show in this catalog are the NEWEST and will provide ALL AT YOUR CUSTOMERS.

"PENNANT" BASEBALL UNIFORMS

All numbers carried in stock ready for immediate shipment. Skillfully tailored, serviceable athletic flannel, attractive color combinations. Made full and roomy, allowing for freedom of action. Suit comprises cap, shirt, pants belt and stockings. Each uniform complete in box. Swatch card showing materials sent on request.

"Varsity League"—Especially severe, cotton athletic flannel, many ways adds to wearing qualities. Gray with navy stripes collar and down front. Navy body and ..... leather belt. Navy ribbed cotton athletic stockings, 4 in navy calzarigs. Each uniform in box.
1K8000—Sizes 36 to 42 ..... SPECIFY
SIZES ..... Temp Out

"Major League"—10 oz. all worsted athletic flannel, tailored to fit and ..... Gray with ..... collar, navy band around neck down sleeves, box pleated back and down front ..... leather belt, ... Each uniform in box.
1K8001—Sizes 36 to 42 ..... SPECIFY SIZES ..... Temp Out

"Official League"—24 oz. wool athletic flannel, large and roomy. Gray with broad navy stripes ..... Each uniform in box.
1K8003—Sizes 36 to 42, SPECIFY SIZES ..... Temp Out

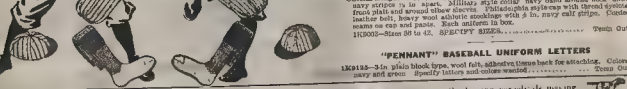
"PENNANT" BASEBALL UNIFORM LETTERS

1K9125—3-in plain block type, wool felt, adhesive tissue back for attaching. Colors: navy and green. Specify letters and colors wanted ..... Temp Out

D. & M. BASEBALL GLOVES & MITTS

Experienced ..... in the leading ..... and ..... Every ..... and ..... and carry the stamp of approval. Every model is reliable.

INFIELDERS' BASEBALL GLOVES



1K6065—Sure-grip ..... leather web ..... of palm and ..... seams and lacing ..... leather lined with tan or ..... Each $5.25

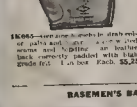
1K6066 — Genuine Naga Leather ..... Natural color ..... leather welted seams and laced ..... Each $5.50

1K6067 — ..... leather palm ..... leather welted seams and ..... leather lined with tan or ..... Each $5.50

1K6068 — ..... leather ..... and fingers, ... leather welted seams and ..... leather lined with tan or ..... Each $5.50

1K6069— ..... Each $8.50

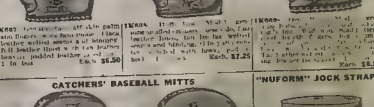
BASEMEN'S BASEBALL MITTS



1K 604 — ..... white leather ..... white calfskin lin..... leather lined and ..... wrist strap, web of ..... well padded and formed. ..... Each $8.25

1K605 — Jake Dunbar Model ..... genuine tan stiff ..... this pattern leather ..... and wrist ..... well padded ..... ready-lace, ... buckle. Each $9.50

CATCHERS' BASEBALL MITTS



1K606— ..... leather ..... padded ..... leather ..... Each $9.50

1K607 — ..... wrist strap and ..... nickel buckle. Each $9.50

"NUFORM" JOCK STRAPS

Elastic band ..... back inside ..... Each ..... most comfortable ..... on the ..... market.

	Per
1K1564 Small	$10.50
1K1565 Medium	
1K1567 Large	

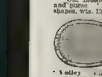
REGARDING THE GOVERNMENT EXCISE TAX—The U. S. Government Excise Tax on all taxable Sporting Goods is included in our prices. It will not be added to the printed prices shown. The "Pennant" Reach and the D & M brands, which we offer, sell readily on their merits. Every item has dependable workmanship, selected materials and price fairness ..... Buy from "Our Drummer" for better values.

TENNIS GOODS

Fresh, clean, 1920 sellers, the most advanced products of factories that specialize in tennis goods. The nation-wide movement encouraging tennis as a leading sport this season will create an enormous demand and bring additional business to the merchant who has the right goods. We offer here the best sellers. The kind that your customers will fully appreciate because low prices and quality are the outstanding features

"PENNANT" TENNIS RACKETS

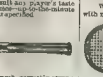
Our intention in adopting this line is to produce a racket that will suit any player's taste and purse. "Pennant" Rackets are made with seasoned white ash frames—no-spin-the-minute Malacca, Wts. 12½ to 14½ oz. Each in paper bag with guarantee tag unless specified.



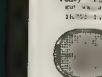
"Valley"—Full size, well strung with oriental gut, white ash wedge, combed cedar grip.
1K7501—1 in bag..... Each, $1.50

"Marvel"—Extra full frame, correctly strung with oriental gut, white ash wedge, full cedar handle.
1K7502—1 in bag..... Each, $1.80

"Star"—Double slat, mahogany wedge, oriental gut.
1K7030—1 in bag..... Each, $1.10

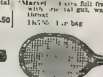


"Club"—Full size natural mahogany wedge, good oriental gut.
1K7040—1 in bag..... Each, $1.80

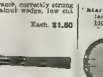


"Challenger"—Large full broad frame, strung with oriental gut, white holly wedge, reinforced with beechwood shoulder strip, waxed cedar grip.
1K7050—1 in bag..... Each, $2.25

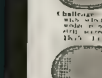
"Fairlawn"—Latest model, well balanced full oval frame, purple wrapped shoulders gray ash wedge, combed cedar grip.
1K7060—1 in bag..... Each, $2.50



"Park"—Selected white ash frame, strung with good quality gut.
1K7070—1 in bag..... Each, $2.25

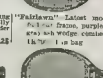


"Columbia"—Long oval frame, close oriental gut stringing, walnut wedge, taped shoulders, cedar grip.
1K7080—1 in bag..... Each, $2.40

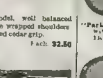


"University"—Regulation size, latest model, reinforced double shoulder wrappings, walnut wedge, Doherty double center stringing, deep scored cedar grip.
1K7090—1 in bag..... Each, $3.10

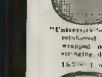
"Brentwood"—Long oval beveled frame, close stringing with selected oriental gut and Doherty stringing, purple wrapped shoulders, double wrapped shoulder and neck, walnut wedge, deep grooved cedar grip.
1K7100—Each in fan waterproof bag $3.85
Each



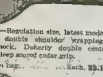
"Longwood"—Seasoned white ash frame, close oriental gut stringing, walnut wedge, waxed grip, strung with good quality gut.
1K7105—1 in bag..... Each, $2.50



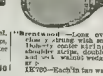
"Champion"—Full oval frame, fine oriental gut close center stringing, taped shoulders, walnut wedge.
1K7110—1 in bag..... Temp. Cut



"Collegian"—Extra size taped beveled frame, strung with selected oriental gut, Doherty double center stringing, low cut throat, white ash wedge, shoulder strips, green wrapped shoulders, deep scored velvet grip.
1K7120—Each in fan waterproof bag
Each, $4.25

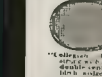


Derby Special—Even balanced oval shape beveled frame, strung with finest quality oriental gut, Doherty double center stringing, good with linen shoulder wrappings, walnut wedge, white rubber cushion grip, deep scored cedar grip.
1K7130—1 in bag..... Each, $4.25
1K7131—1 in fan waterproof bag
Each, $4.95

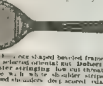


"Challenger"—Recognized popular shape, reinforced throat stripe, bound with linen wrapping, strung with superior quality gut, extra center stringing.
1K7135—1 in bag..... Each, $5.50

"Davis Cup"—Oval shape, dogwood reinforcement, narrow throat reinforced with extra best grade lamb's gut double center stringing, black buttwood gut throughout.
1K7140—1 in bag..... Temp. Cut



"Amateur"—Full oval shape, parapet beveled frame, select American wood, with throat Doherty double center stringing, selected oriental gut, walnut shoulder stripe and wedge, reinforced with purple linen wrapping, a high special black walnut deep scored handle.
1K7150—Each in fan waterproof bag. $5.50



"Tournament"—Regulation size, hexagon beveled frame, Doherty reinforced throat and double wood shoulder wrappings, knob wood wedge, deep scored cedar grip, full oval wrapped grip. Each
1K7155—Superior oriental gut strung $4.50
1K7160—Pure lambs' gut strung. 6.25

Ward & Wright—Popular shape, double center stringing of the finest grade of lamb's gut, adapted to volleying or not playing, finest seasoned ash, hardwood reinforcements on throat, used by national champions.
1K7200—1 in bag. Each, $9.00

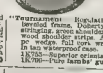
"PENNANT" TENNIS RACKET CASE

1K7450 — Olive drab, single texture waterproofed cloth, snap flap, cloth bound, leather handle. Each in paper bag. 80c

WRIGHT & DITSON CHAMPIONSHIP TENNIS BALL

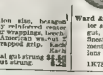
1K7900—Adopted as standard by the U. S. N. L. T. A., which proves in itself the value of this ball. 1 doz. in box $5.50

"PENNANT" DOUBLE COURT MARKING TAPE



1k723—Double web marking straps for laying out complete double court. 100 galvanized staples. Each set in box with court chart.....Set, $7.50

"PENNANT" TENNIS NETS



Made from No. 15 twine, heavy canvas bound. Each in carton. Poles not included.

1K725—32x3 ft.....Each, $4.25
1K726—42x3 ft.....Each, 5.25

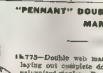
WRIGHT & DITSON WRIGHT & DITSON WRIGHT & DITSON

"CROWN" CROQUET SETS

Hard maple mallets and balls finished with special glass varnish, will not crack or flake. Each set in hinged wood box with count chart and instructions.

Juvenile Set—Handy for youngsters, fancy design mallets and balls with standard size painted and varnished.
6 BALL SET—
1K941—1 set in box
1K941A—3 sets in crate (Total 24 30) Set, $1.50
6 BALL SET—
1K945—1 set in box
1K945A—3 sets in crate (Total $5.25) Set, $1.95

Standard—5 in. turned and striped mallets, varnished and striped balls and stakes. 3 sets in crate.
1K950—4 ball set, 32 lbs. (Total $6.00). Set, $1.65
1K951—6 " 47 " (" 9.00). " 2.10
1K952—8 " 61 " (" 12.00). " 2.60



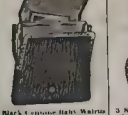
8 Ball Set—Selected stock, 5 in. varnished mallets, balls and stakes with painted stripes.
1K953—1 set in box, 31 lbs..... Set, $2.35
1K953A—3 sets in crate, 61 lbs. (Total $8.50) 2.85

"Professional"—Painted and varnished stakes, balls and mallets with short professional type handles
6 BALL SET—
1K97—1 set in box, 19 lbs. Set, $2.25
1K97A—3 sets in crate, 54 lbs. (Total $6 40) 6.00
8 BALL SET—
1K98—1 set in box, 20 lbs. Set, $2.75
1K98A—3 sets in crate, 60 lbs. (Total $10.20) 7.75
8 BALL SET—
1K99—1 set in box, 24 lbs. Set, $4.25
1K99A—3 sets in crate, 72 lbs. (Total $13.20) 4.10

"Perfection," 8 Ball Set—Fancy painted and varnished stakes, balls with 2½ in. turned and beaded balls, large wickets with sockets
1K954—1 set in box, 60 lbs..... Set, $4.00
1K954A—3 sets in crate, 95 lbs. (Total $11.70) 5.00

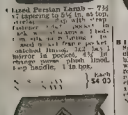
"Professional" De Luxe—8 in. dogwood mallets, nickeled band trim, fancy turned short handles threaded to mallets painted and varnished selected dogwood balls, turned stakes white enameled arches, 3 clamp hinged box, handles
1K941—1 set in crate, 38 lbs.... Set, $9.50

"DANSE" BAGS



Black Genuine Soft Walrus ... Each $4.00

Closed Persian Lamb — 7½ in. tapering to 6½ in. across bottom, with ½ in. strap. Leather lined, pocket at back and 2 at front. 1 bead ... Each $4.00



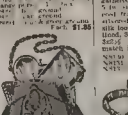
Black Corpe Calfe Oval ... Each $4.50

Black Genuine Pin Seal ... Each $5.65

Black Genuine Pin Seal ... Each $6.75

VANITY BAGS—Beaded Effect

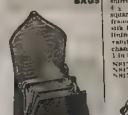
3 Simple Colors ... Each $1.00



Black Velveteen ... Each $1.67

Matinee Bag ... Each $6.00

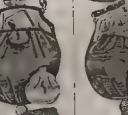
Black Genuine Pin Seal ... Each $5.50



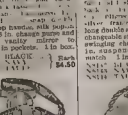
HAND BAG PURSE

N8547 ... Each $6.25

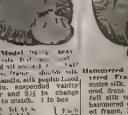
NEW SILK HAND BAGS -For Spring and Summer



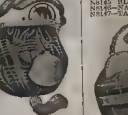
Covered Frame ... Each $4.50



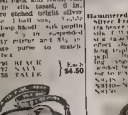
Panel Model ... Each $4.50



Etched Bright Silver Frame ... Each $4.50

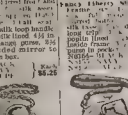


Shell Front Frame—Black, heavy moire silk, full model, silvered front and back, 5 in. to full silk tassel & in several oval 3-ball strap frame, panel colored shell front to match, long double loop handle, silk poplin lined, 8½ in. suspended mirror and 3¼ in change purse to match. 1 in box ... Each $6.25



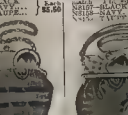
Applied Fingger Design ... Each $4.50

Hammered Effect Dull Silvered Frame ... Each $4.50

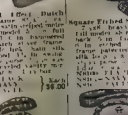


Hammered Effect Dutch Silver Frame ... Each $4.50

Hammered Effect Dutch Silver Frame ... Each $4.50



Fancy Hammered Effect Dutch Silver Frame ... Each $6.25



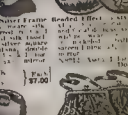
Fancy Liberty Silver Frame ... Each $4.50

Hammered Effect Dull Silvered Frame ... Each $4.50

Etched Silver Finish Neutral Frame ... Each $4.75

Square Etched Silver Frame ... Each $7.00

Fancy Silk Frame ... Each $4.50



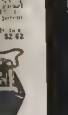
Hammered Effect Dull Silvered Frame—Genuine, extra heavy moire silk, panel model, silvered frame and back, 5½ in. full silk tassel & in. silvered oval 3-ball strap frame, panel colored shell front to match, long double loop handle, silk poplin lined, 8½ in. suspended mirror and 3¼ in change purse to match. 1 in box ... Each $6.25

MERCERIZED MOIRE HAND BAG

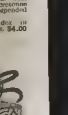
Novelty ... $1.95

MISSES' NOVELTY HAND BAGS

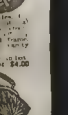
Genuine Leather — Assorted colors. 6½ x 8½ ... Each $4.00



Beaded Effect ... Each $4.00



Fancy Silk Bag ... Each $4.50



Hand Flower Bag ... Each $4.50

AUGUST 1960

INTO FORBIDDEN AFGHANISTAN

BOLIVIA'S EXHAUSTLESS MOUNTAIN OF SILVER

ADVENTURING IN BORNEO

HOTEL PENNSYLVANIA

Opposite Pennsylvania Terminal - New York

The Public Ought to be Told

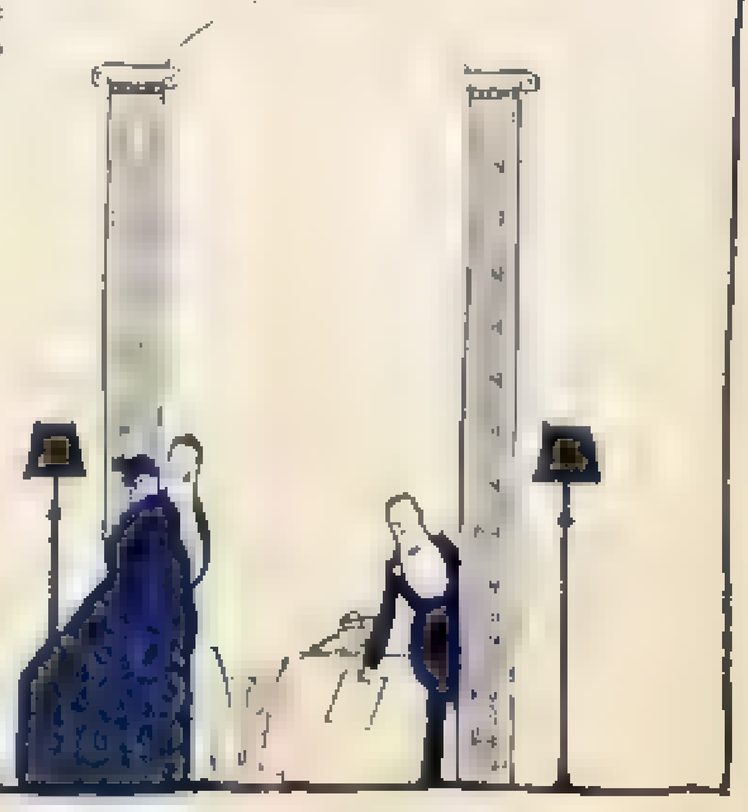
There are lots of things about hotel life that I've always thought the public ought to be told. Here, for instance, is a little hint which you may, sometime, be glad you saw and remembered:

If something unsatisfactory happens, back along the line of human connections through which service has to flow, the way to get it right is to *place your complaint high enough.* Don't complain to a waiter or bus-boy, but to a headwaiter; not to a bell-boy or page or porter, when you should put it to the assistant-manager.

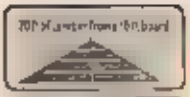
In the Pennsylvania and the Statler Hotels you're promised satisfaction. The policies of the business, and the manager's intentions, are to give you full measure of what you're promised. It's a responsibility; and, naturally, the higher you go with your complaint, the more of that responsibility will you find working for you.

Why? Well, waiters and bell-boys change jobs oftener than executives, and are less interested in their jobs. Our "labor turnover" is pretty low, very low for a big hotel; and it is lowest among those employees who can understand and practice our policies—we're always weeding out the other kind. When you make your complaint to a department head, or to someone more responsible than the one who isn't giving you the required standard of service, you'll get action. It's a big part of my job to see that you do.

Speaking of the Pennsylvania, it may interest you mildly to know that in one month of thirty days, we served 262,019 meals—an average of 8,733 a day; and that the average number of registered guests was 2,874. That will help you to see that we have too much at stake to be indifferent about what kind of service you get—because we want to keep up this habit of breaking records.



Hotel Pennsylvania, with its 2200 rooms, 2200 baths, is the largest hotel in the world—built and operated for discriminating travelers who want the best there is. Associated with it are the four Hotels Statler in Buffalo, Cleveland, Detroit and St. Louis, and each of these five hotels makes reservations for all the others. All have private baths, circulating icewater and other unusual conveniences in every room. An entire block of ground in Buffalo has just been bought, for a new Hotel Statler.



How to Reduce Present Homebuilding Costs

The System

The Result

Noon Third Day

Seven th Day

Twentieth Day

Save the Waste

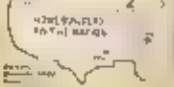
$100 MINUS LUMBER WASTE $82

A Popular Home

Attractive Semi-Bungalow

Save the Waste and Reduce the Cost. The Aladdin System Scientifically Prepares the Materials and Conserves the Labor. You Can Save 18% on the Cost of the Lumber and 30% on the Cost of the Labor.

Greatest Distributing System of Lumber in the World



The ALADDIN Co. BAY CITY MICH.

Branches → Wilmington, North Carolina · Portland, Oregon · Harrisburg, Mississippi · Toronto, Ontario

A Real American Bungalow

$100 MINUS LABOR WASTE $70

Very Popular Small Bungalow

Attractive Story and Half Type

Write to Nearest Offices

THE ALADDIN COMPANY Bay City, Michigan

ALADDIN

"The child is father of the man"

American Made Toys

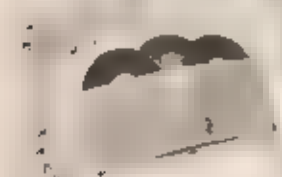
AMERICAN MADE GAMES *and* TOYS

Introducing Curly Locks

Toy Typewriter

Overland Flyer Train

The Books That Sing



Toy Phonograph

Little Wonder Records

Pan Chro Scope

Kiddie Kar

Archarena Game Board

Baby

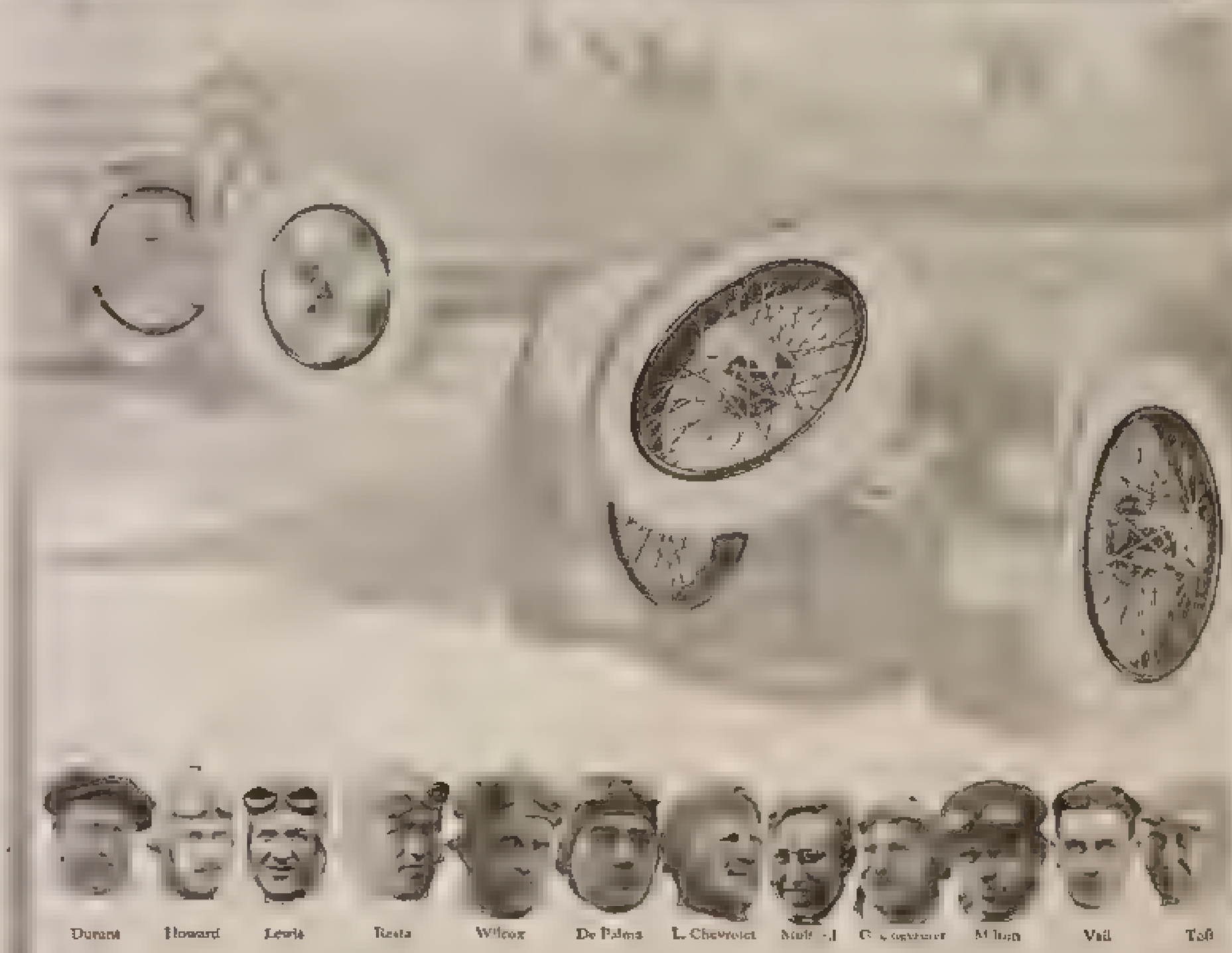
"The child is father of the man"

Plan Christmas Joys on American-Made Toys

THE TOY MANufacturers OF THE U.S.A.

American Made Toys

MARLIN-ROCKWELL INDUSTRIES



Durant Howard Lewis Resta Wilcox De Palma L. Chevrolet [illegible] [illegible] Milton Vail Taft

THESE famous drivers would not think of entering a race with any equipment other than

Rudge-Whitworth Wire Wheels

These highest grade of all wire wheels hold all records for speed at all distances and can be depended upon to "stand up" under the severest strains at racing speeds and to save all-important time by reason of their quick changeability made possible by their patented and unique locking ring.

The test to which wire wheels are put in a race of several hundred miles is not equalled by one hundred thousand miles of usual motoring service.

Note the added distinction given by Rudge-Whitworth Wire Wheels to the superior makes of cars that are equipped with them.

Manufactured by
Standard Roller Bearing Company, Philadelphia

Controlled and Operated by

MARLIN-ROCKWELL
CORPORATION
EXECUTIVE OFFICES 347 MADISON AVENUE NEW YORK CITY

MEN who select their Spring wardrobes from the new ADLER-ROCHESTER models are men who stand out in their respective communities. Keen judges of all that is fine in American life, they render a unanimous verdict in favor of clothes that so evidently possess refreshing individuality.

Send for complimentary copy of our Spring Style Book. L. ADLER, BROS. & CO., *Rochester, New York*

ADLER ROCHESTER CLOTHES

Do you believe in Luck?
Try
Olivilo
OLIVE EYE LO
Don't Lose Your Charm!
KEEP smooth and clear the soft radiant beauty of a youthful complexion. Use
Olivilo
The Perfect Toilet Soap
It yields a rich, creamy lather that cleanses without irritation. You will find a new charm in its use for
Complexion, Bath and Hair
"Couldn't be better if it cost a dollar a cake"
ALLEN B. WRISLEY CO., Chicago
Makers of
San Toy Talcum and
Wrisley's Toilet Waters
Superstitions of Nations
In English folklore it is told that the shoe dropped from the hoof of a Baron's horse brought eternal good luck to the envied finder.

AMERICAN EXPRESS

TICKETS TOURS CRUISES

TRAVEL DEPARTMENT

Announces

SIX TOURS

AROUND THE WORLD

From San Francisco

Sept. 17, Oct. 14, Nov. 13 and Dec. 11

Visiting Japan, China, Philippine Islands, Singapore, Java, Penang, Burmah, India, Ceylon, Egypt, Naples and the Battle Fields of France.

From New York

October 9th, November 6th

The above countries will be visited in the reverse order.

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The World Wide

Service of the American Express is in itself a sufficient guarantee that these tours will be conducted in the best possible manner. The accommodations are the best available.

You will find the American Express Travelers Cheques The Most Convenient form for carrying Travel funds

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DETROIT
CLEVELAND
MINNEAPOLIS
LOS ANGELES

Quick!
Your Horn
PRICE $1.00
—and a fraction of a second might mean an accident that you could never forget.
WHY TAKE A CHANCE?
TRADE APCO MARK
Horn Button
—attaches to the throttle lever where it is under the driver's fingers at all times, leaving the hands on the wheel where they belong, especially in an emergency that requires the quick sounding of the horn. The installation is very simple, requiring no special tools or machine work. Furnished complete with directions.
Write for catalog showing every Ford accessory in the Apco line. Insist that every attachment you buy for your Ford bears the Apco name. Why not be sure of satisfaction? Your money will buy
APCO MANUFACTURING CO.
PROVIDENCE U. S. A.
EQUIPMENT FOR FORD CARS 1919 - 1920
ALL-WAYS
TRADE APCO MARK
RIGHT

APPERSON

THE EIGHT WITH EIGHTY LESS PARTS

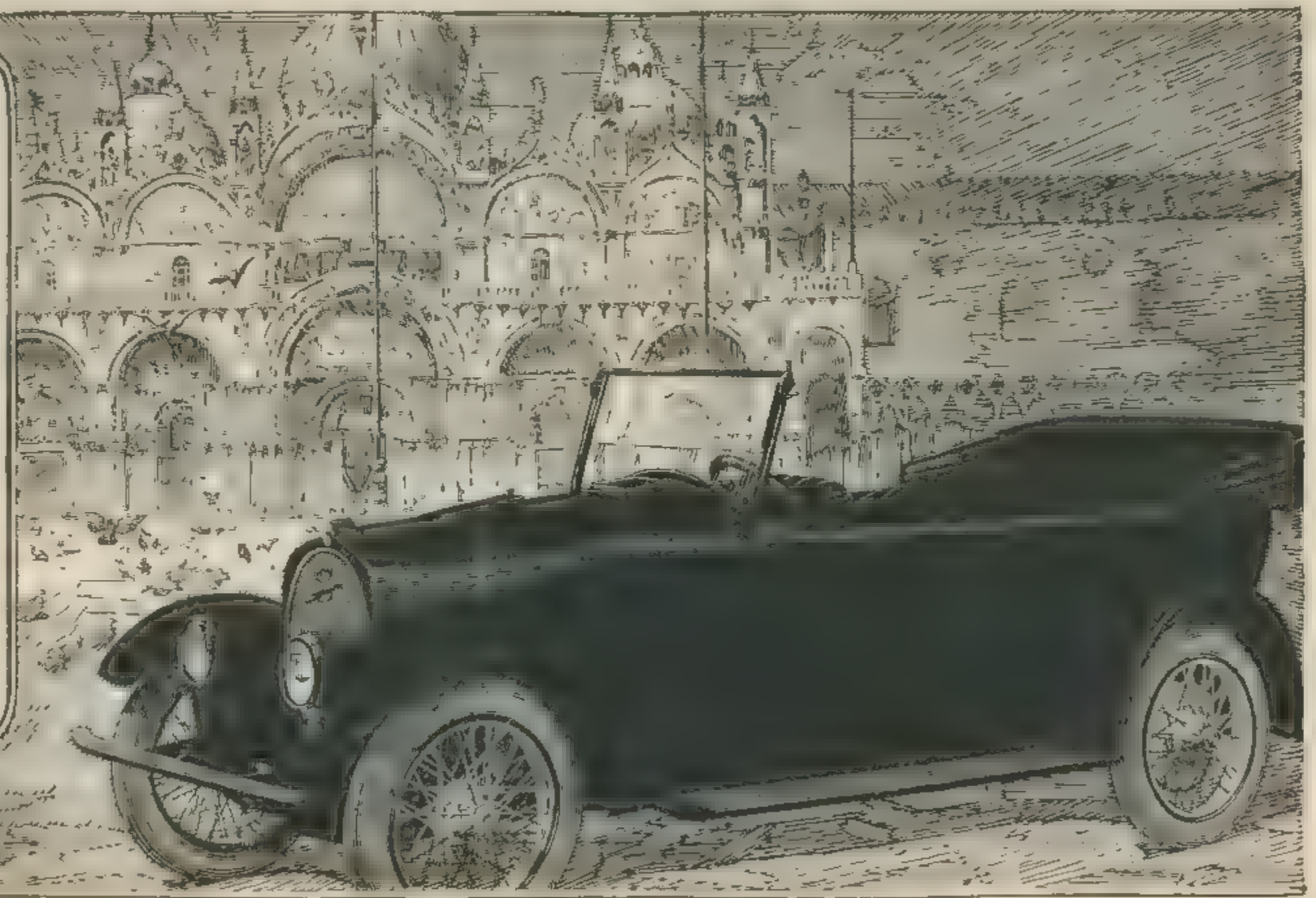
CREATIVE GENIUS

CREATIVE genius, whether it builds cathedrals or motor cars, is never satisfied, never at the end of its endeavor. Year by year the creative genius of Apperson Brothers has enriched the motor car industry; mechanically and artistically.

Creative genius made the first side door car; first double opposed motor; first float feed carburetor; first electric ignition. The Apperson motor of today, simplified with eighty less parts, is the culmination of Apperson creative genius.

As a result Apperson rushes from one mile an hour to 40 miles in high in 20 seconds; brakes to a dead stop from 40 miles in 4 seconds; turns on 130 inch wheel base in a 38¼ foot circle. Drive an Apperson first—then decide.

Apperson Bros. Automobile Co.
Kokomo, Indiana
Export Department
One Hundred W. Fifty-Seventh St.
New York City



DYNAMIC AMERICA DEMANDS RESULTS. APPERSON PRODUCES THEM

DEPENDABILITY

Atlas Cement

Stucco is the ideal building material with which to make the old home into a new one.

The need of new buildings to meet housing congestion conditions, the scarcity of skilled labor, and even financial reasons frequently make the remodeling of the old house desirable. If its structure is still sound your architect can easily make remodeling plans. And for comfort, economy and beauty ask him to specify stucco of ATLAS Portland Cement with a finish of ATLAS-WHITE.

With ATLAS-WHITE for the finish coat, with white sand or with color aggregates, you can obtain a pure, permanent white or any color scheme you may desire.

Illustrations shown are from actual photographs of the change made in one home by the use of an architect's attractive plan and ATLAS Cement Stucco.

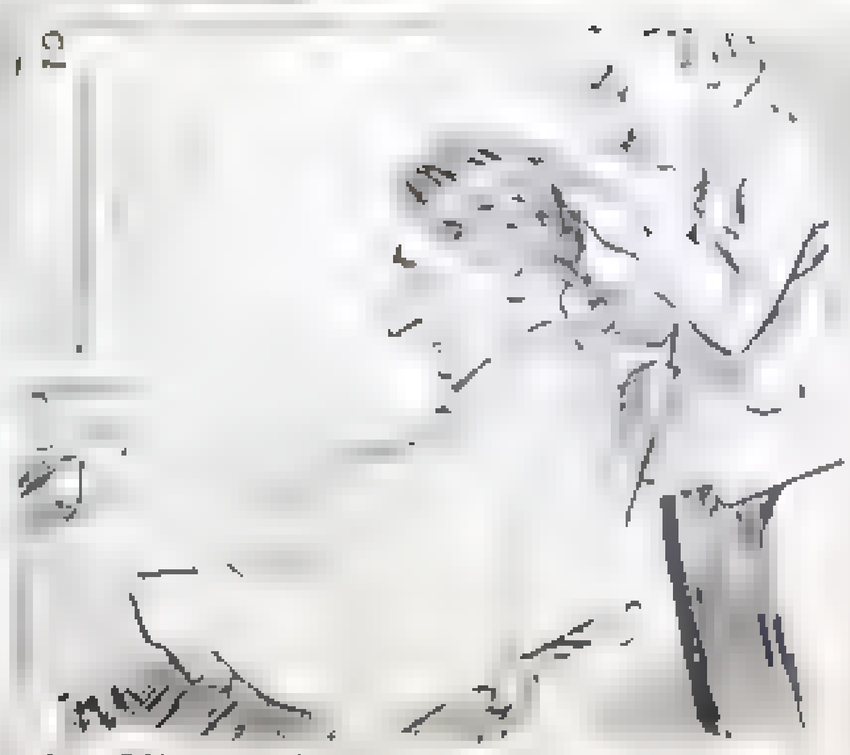
Write for literature telling when and why to use **ATLAS**—*On The Job.*

THE ATLAS PORTLAND CEMENT COMPANY

New York Boston Philadelphia Birmingham
Chicago Dayton Minneapolis
Des Moines St. Louis

[redacted]

YOU ARE KILLING TIME BY TAKING TRAINS IN A SMALL TOWN AND YOU UNEXPECTEDLY EXPLAIN THAT YOU WANT A LIGHT TRIM BLENDED WITH THE NATURAL AND



AND YOU WANT TO FIND YOU ARE THE OWNER OF A PARLOR. BUT — IN A [illegible] YOU DON'T KNOW HOW TO COMMAND THE BEST WORK FOR YOUR TREATMENT —

WHEN MARCEL WAVE IS IN STYLE DO A MARCEL YOU KNOW THAT IT CAN BE DONE AND YOU KNOW HOW TO DO IT WHEN

YOU DO KNOW THAT YOU HAVE

OUT IN FRONT

Coming Down The Stretch

C. W. Bennett's New Juvenile Automobiles

"ROLY-MOBILES"

have easily taken the lead and will hold it to the finish of this season and many succeeding seasons. Distinctiveness in appearance and superior construction supply the motive power.

Recently enlarged capacity enables us to book orders now for the wonderfully popular ROLY-AUTOS, ROLY-KARS and ROLY-PETS (Pony, Bow-wow, Ducky, Lamby) for next year's business. Order from your jobber, or if he does not handle them write us direct. Catalog for the asking.

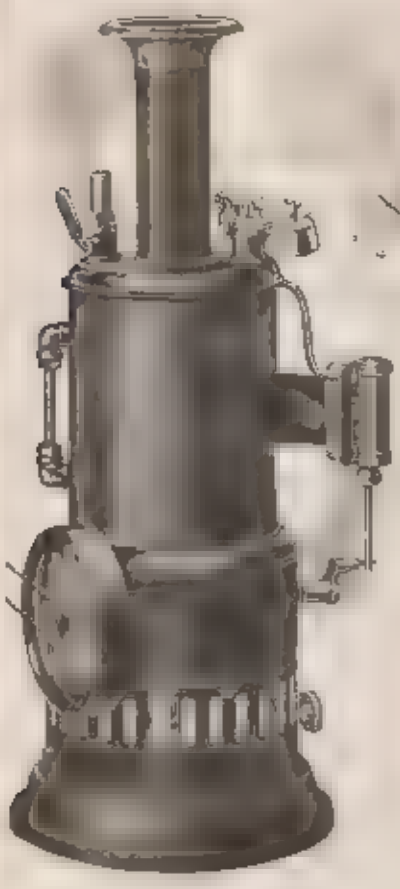
ARDEN MFG. CORP.

Clarence W. Bennett, Vice-Pres. and Gen'l Mgr.

OFFICE AND FACTORY { 446-452 East 148th Street / 441-453 East 147th Street } **NEW YORK**

Cable Address: ROLTOY—Western Union Code

"BIG GIANT" STEAM ENGINE



For Young Engineers

Runs Toy Machinery

Description

Horizontal Steam Engine

How to Get the "Big Giant" Engine

Ask a friend or neighbor to give you his subscription for The Youth's Companion for one year. Send the address to us with the subscription money and 25 cents extra and we will present you with the "Big Giant" Steam Engine and one Wonder Certificate. The subscription must be one that has not been upon our books during the past year and it cannot be renewed.

SPECIAL OFFER

100 Miles per Gallon

Light weight, upkeep and broad utility made the bicycle universally popular but its riders' lack of inclination to pedal ultimately relegated it to the cellars and attics of countless homes

Numerous attempts to motorize the bicycle soon became general but frailty of wheel or frame construction and inadequate shock absorbing effects of vibration and road shock and the bicycle was temporarily discarded

Then came the motorcycle—high powered and heavily built—but it could not and did not replace the bicycle

Meanwhile Will of England designed an indirect power plant attachment in the form of a motor driven roller which has since proved to be the only practical means of power application to the standard bicycle

The Will principle, considerably improved, was then adopted and incorporated in the American made Smith Motor Wheel, but the demand for war materials soon interrupted its further development, and constructive effort toward its refinement was discontinued until it was acquired by the Briggs & Stratton Company

The Briggs & Stratton Motor Wheel is a remarkably enduring piece of mechanism. It represents skilled machine work and precision in assembly—standards which have always prevailed in the Briggs & Stratton Works. It can be easily and quickly attached to any bicycle. It restores all the pleasures and conveniences of bicycling—without effort, vibration or dirt. It costs very little to operate. It is, in fact, pronounced by those who know to be *"a real job"* of engineering.

The story of the Briggs & Stratton Motor Wheel will be told often in pages of *The Saturday Evening Post* and other large national publications. Meanwhile, your Sporting Goods, Bicycle, Hardware or Implement Dealer will be glad to demonstrate it to you

BRIGGS & STRATTON

BRIGGS & STRATTON COMPANY

GENERAL OFFICES AND WORKS

Sharp Turn

SPEEDSTER BUCKETS

Get Maximum Service Out of Your Crane or Derrick—Install a *Speedster*

The Blaw Speedster Bucket is the highest possible development of grab bucket for rehandling loose bulk materials—it is especially suitable for loading and unloading cars, and for the speedy transferring of coal, gravel, sand, ashes, cinders, granulated slag, etc., to and from stock piles. Also suitable for light excavating.

BLAW SPEEDSTER BUCKETS—Applicable to All Hoisting Equipment

Size No.	Weight Empty	Average Load Picked up When Working in Sand or Washed Gravel		Slack Coal		Lump Coal	
		Load Cu. Ft.	Total Weight Loaded Bucket	Load Cu. Ft.	Total Weight Loaded Bucket	Load Cu. Ft.	Total Weight Loaded Bucket
100	2675 Lbs.	28	5475 Lbs.	27	3925 Lbs.	22	3775 Lbs.
105	3100 Lbs.	36	6700 Lbs.	34	4800 Lbs.	28	4500 Lbs.
110	3350 Lbs.	40	7350 Lbs.	40	5350 Lbs.	33	5000 Lbs.
115	4300 Lbs.	54	9700 Lbs.	50	6800 Lbs.	45	6550 Lbs.
120	4650 Lbs	60	10650 Lbs.	57	7500 Lbs.	47	7000 Lbs.
125	5000 Lbs.	77	12700 Lbs.	73	8650 Lbs.	61	8040 Lbs.
130	5580 Lbs.	81	13680 Lbs.	77	9430 Lbs.	64	8780 Lbs.

The pick-up capacities as given in the table are computed from actual tests in loose materials. Tests made on full barge or stock pile coal was Youghiogheny River coal with lumps of moderate size. The weight of coal is figured from the volume picked up, assuming gravel (or sand) at 100 pounds per cubic foot, and coal at 50 pounds per cubic foot.

This standard line of varied dimensions and capacities is carried in stock in convenient shipping centers throughout the country. Prompt delivery of exactly the bucket you need is assured.

Blaw-Knox Company manufactures clamshell buckets for every digging, dredging or rehandling need—a type suited to your present hoisting equipment.

Write Us

BLAW-KNOX COMPANY

PITTSBURGH, PA.
601 Farmers Bank Bldg.

New York - Boston - Chicago
Detroit-San Francisco-Baltimore

MURAD
THE TURKISH CIGARETTE
MURAD
THE TURKISH CIGARETTE
WHAT could you Enjoy more this Xmas than MURAD?

The benevolent plot of two kindly old gentlemen

A plot! And against the children of America! Yet judging from the merry faces of Uncle Sam and Santa Claus it bodes no ill

In fact, they've decided between 'em that American youngsters should have American playthings—and together—for this Christmas—they've made the most splendid things in the whole wide world

Parents also are conspiring with the two jolly old gentlemen. They know that if little Bobby is to become a *real* American man—and Jane is to become a *real* American woman, the toys they play with two-thirds of the day must be *Real* American Toys.

This Christmas buy American-Made Toys for your children.

THE TOY MANUFACTURERS OF THE U. S. A

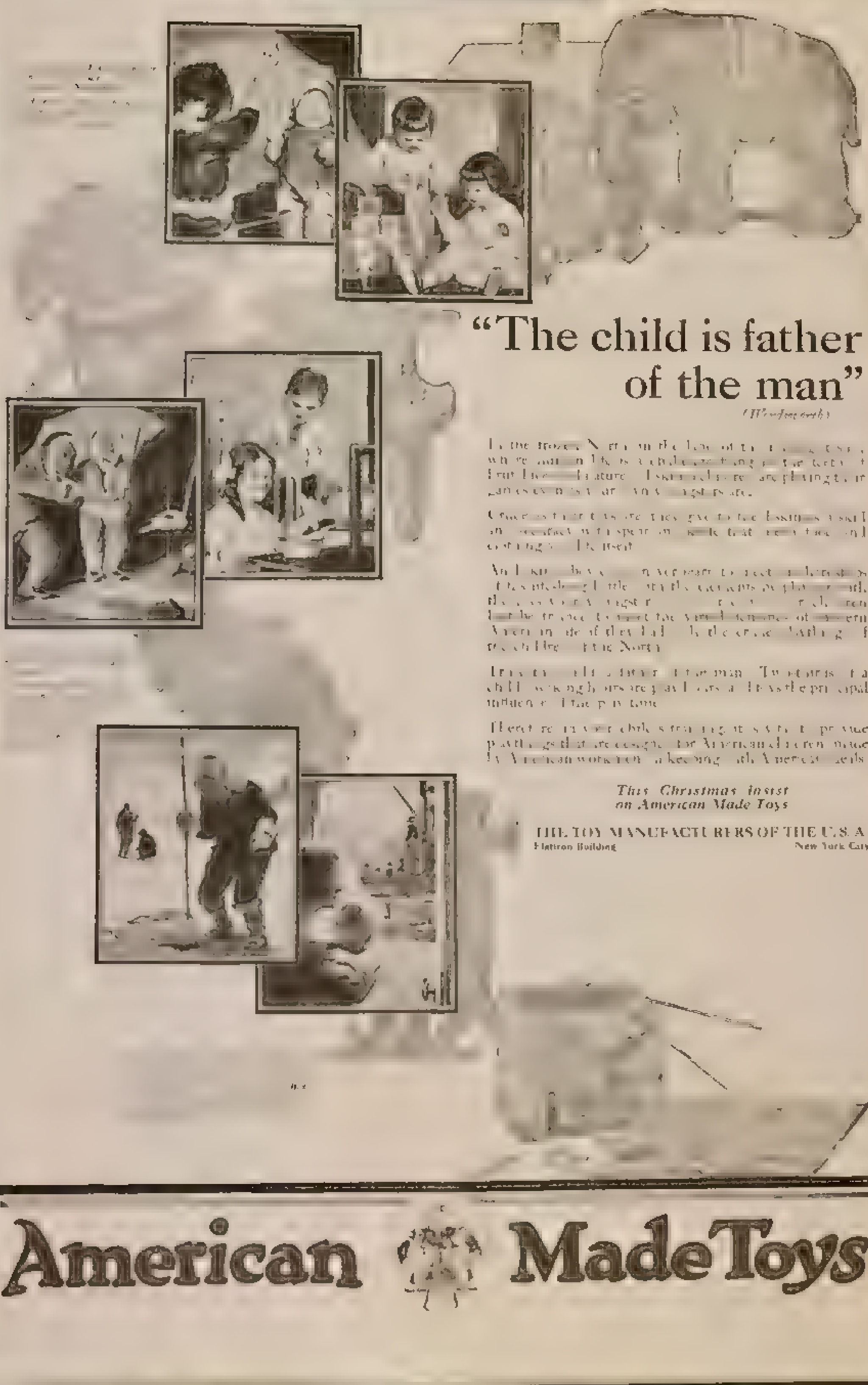
FLATIRON BUILDING NEW YORK

American-Made Toys

Twas moonlight before Christmas.

THE makers of the Chalmers have produced a series of closed cars noticeable for their distinction and individuality. The rare combination of elegance and good taste is evident to a marked degree in the Chalmers Sedan

CHALMERS MOTOR CAR CO., DETROIT
CHALMERS MOTOR CO
OF CANADA, LTD., WINDSOR, ONT



"The child is father of the man"

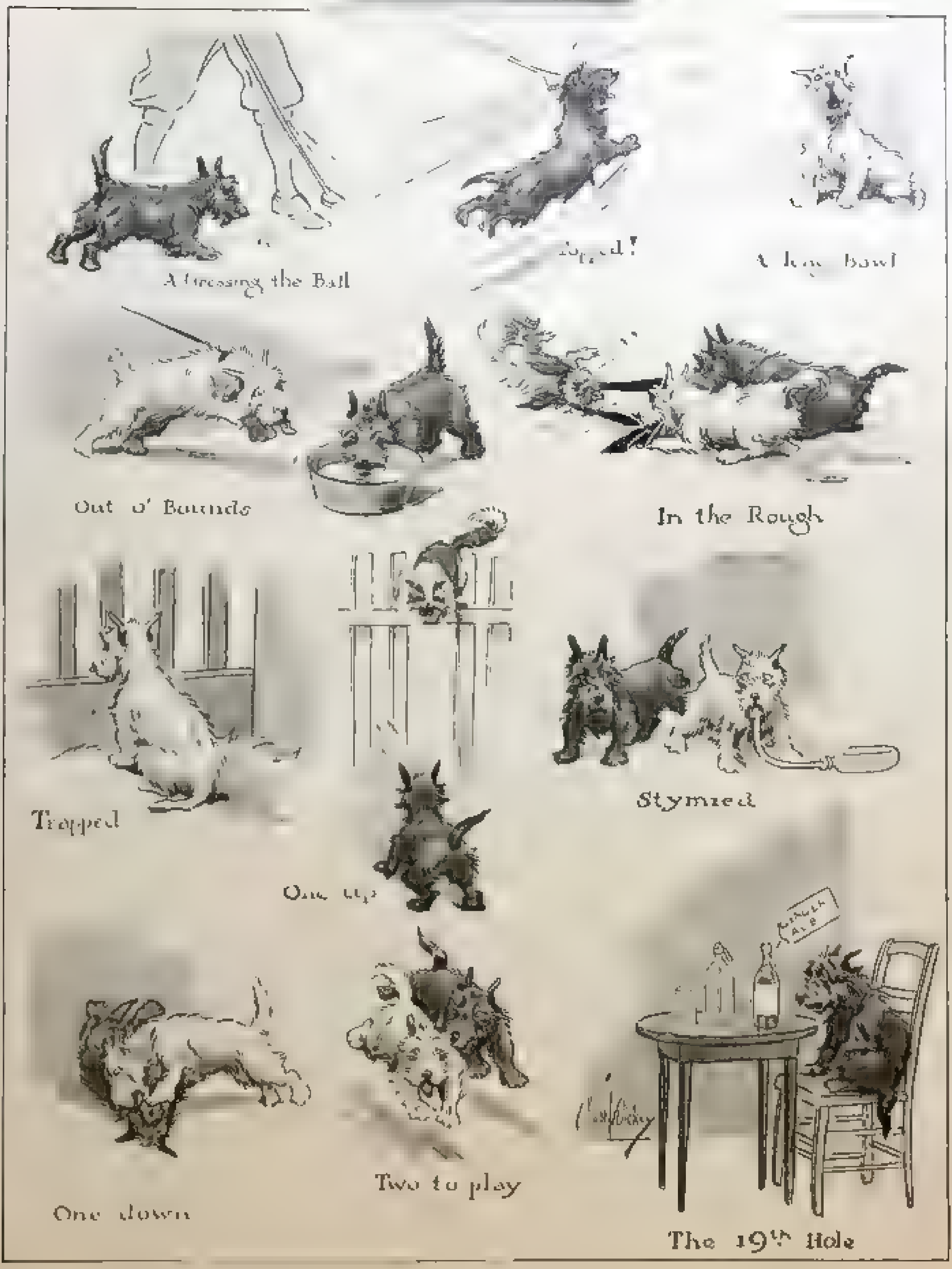
(Wordsworth)

In the process New [illegible] the love of the [illegible], with [illegible] it is a [illegible] that [illegible] their [illegible] nature. [illegible] are playing [illegible] are [illegible].

[illegible] that [illegible] gives to the [illegible] and [illegible] with [illegible] that [illegible] and [illegible].

An [illegible] a [illegible] to [illegible] [illegible] the [illegible] [illegible] and [illegible] [illegible] to [illegible] the [illegible] of [illegible] [illegible] to [illegible] the [illegible] of [illegible] American [illegible] [illegible] [illegible] [illegible] the [illegible] of [illegible].

[illegible] "The [illegible] is [illegible] of [illegible]." To [illegible] is a [illegible] [illegible] [illegible] [illegible]


A Teeing the Ball
Out o' Bounds
Trapped
One up
One down
Two to play
Stymied
In the Rough
The 19th Hole

Golf Terms

DOLLY DINGLE'S LITTLE COUSIN LEONARD

Drawings by GRACE G. DRAYTON

Dolly Dingle's Little Friends, Gwennie and Denny Sweetie

GRACE G. DRAYTON

LAWK A MERCY ME!

THERE was an old woman who went to market to sell some eggs. She went to sleep on the King's Highway. A pedlar came along and cut her petticoats a[illegible] around about up to her knees. She woke up a[illegible] shivering and sneezing, and then she began to cry and to wonder. "Lawk-a-mercy me!" This is none of I! But if it is really me, I've got a doggie at home and he will surely know me, and he will wag his tail, and if it be not I he will bark like everything."

When she got home it was very dark, and the doggie began to bark like everything. The poor old woman began to cry, "Lawk-a-mercy me! This is none of I."

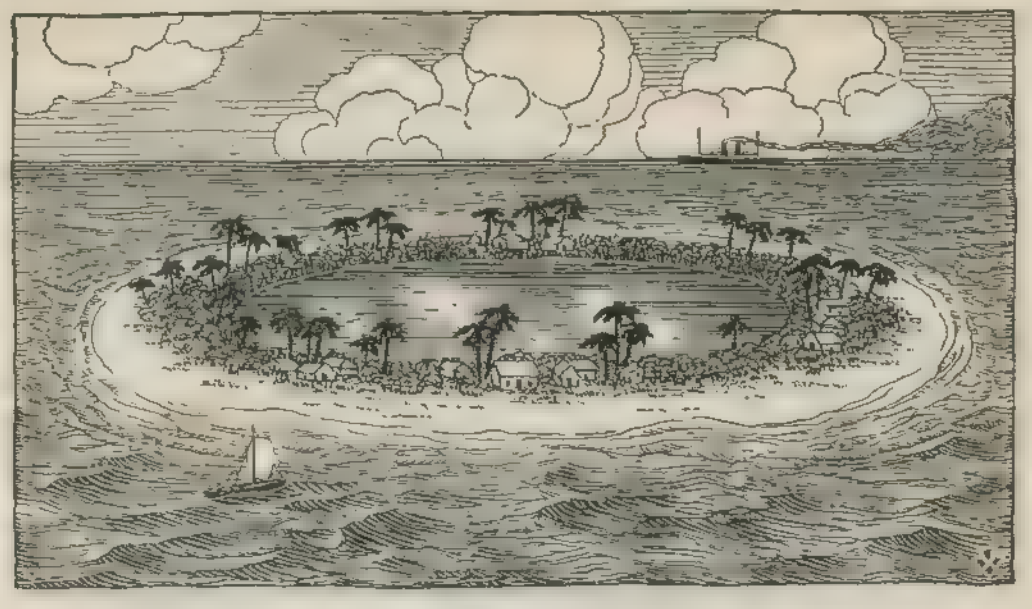
DISTEEL WHEELS

The Wheels that Complete the Car

THE single outstanding fact that Disteel Wheels are now either standard or optional equipment on thirty-eight different makes of American motor cars, constituting the quality of the industry, is the best evidence of Disteel Wheels' supremacy and prestige.

DETROIT PRESSED STEEL COMPANY

DETROIT NEW YORK BOSTON CHICAGO SAN FRANCISCO



By the Author of

WHITE SHADOWS IN THE SOUTH SEAS

A Forthcoming Book
By FREDERICK O'BRIEN

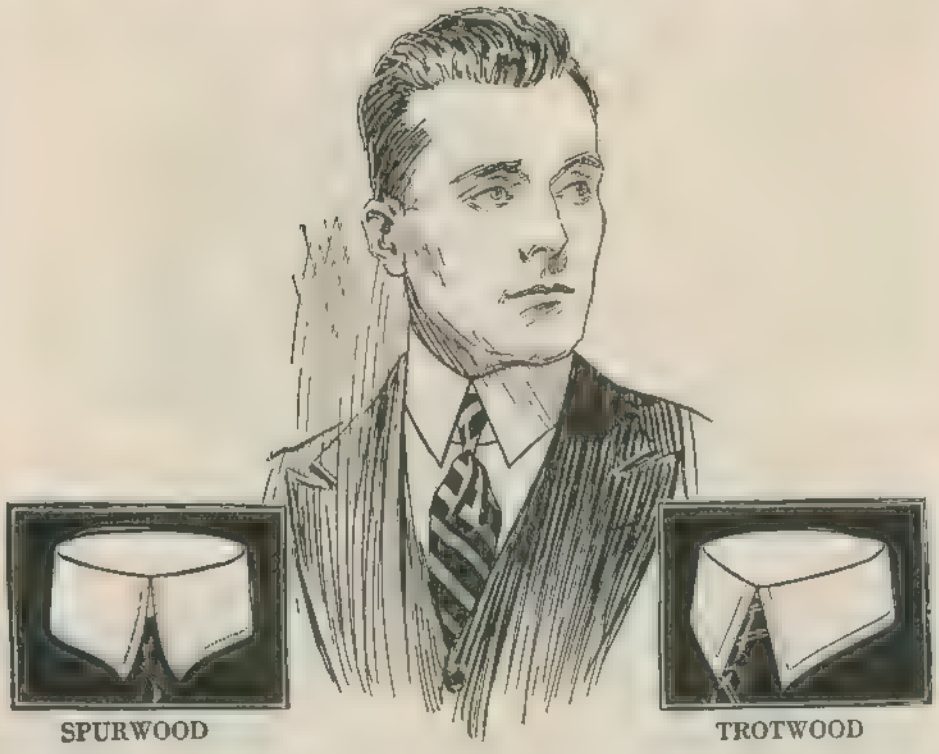
DRIFTING AMONG SOUTH SEA ISLES

CHAPTERS from the coming book will be printed in THE CENTURY each month until its publication next Fall. The first installment will appear in the May number of THE CENTURY, entitled

THE CALM ONE OF FATUHIVA

Mr. O'Brien's new book deals with his wanderings, adventures and life in Tahiti, the Marquesas Islands and the atoll group constituting the little-known Paumotan Islands. It incorporates intensely interesting stories of the natives, presented in Mr. O'Brien's whimsical and picturesque style—and picturesque is the proper word here, for his words do stimulate the reader's imagination to make alluring pictures. He has caught the very spirit of the South Seas, which he reproduces for his readers.

TROTWOOD



SPURWOOD

TROTWOOD

THERE are two ways to identify a quality starched collar at the popular price. When you see it in a store, you can look for the Earl & Wilson trademark. When you hear its name mentioned, you know it is an Earl & Wilson Collar if its name ends in "—wood" like Trotwood, Sparkwood or Cedarwood.

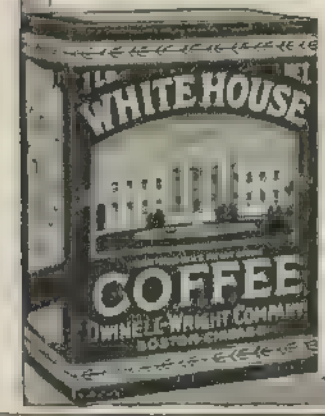
Collars E&W *Shirts*

EARL & WILSON

TROY, NEW YORK

None Better at Any Price

White House BRAND Coffee and Teas



THESE TWO PRODUCTS ARE IN—
A DISTINCT CLASS BY THEMSELVES
INCOMPARABLE
UNAPPROACHABLE—SPLENDID

Showing the new, up-to-date COFFEE package which protects its contents perfectly and delivers to you the same splendid quality that has made "WHITE HOUSE" famous. (1-3-5 lbs.)

EGYPTIAN DEITIES

"The Utmost in Cigarettes"
Plain End or Cork Tip

People of culture and refinement invariably PREFER Deities to any other cigarette.

30¢

Anargyros
INCORPORATED
Makers of the Highest Grade Turkish and Egyptian Cigarettes in the World

SETH THOMAS

THE name SETH THOMAS on a clock inspires confidence. IT implies unfaltering reliability and precision. IT is our proud heritage from over a century of clock-making

Esterbrook Pens

Esterbrook Probate Pen No. 313

Ask for it by name. Satisfies as no other light stub pen can. Made to use freely and stand wear—smooth, corrosion resisting, durable. The hand enjoys the gentle, easy running over any paper surface this stub pen makes possible.

Easy to get—easy to write with.

THE ESTERBROOK PEN MFG. CO.
6-18 COOPER STREET
CAMDEN, N. J.
Canadian Agents: Brown Bros., Ltd., Toronto, Canada

Esterbrook Pens

IN FAIRLAND

THERE are views in the outdoor [illegible] which a child can [illegible] [illegible] at twice the distance [illegible] the weather but the child who [illegible] Kiddie Kar never [illegible]

REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

KIDDIE-KAR

Fairtex
25
Balloons
A Merrier Xmas for Your Child
THE FAIRTLESS RUBBER COMPANY
DEALERS-
Fairtex
TOYS

Another Ellis Parker Butler Story

Judge

POOR FISH!

They didn't have Firefoam!

THERE [illegible] the water [illegible] Roads [illegible] [illegible] [illegible]

It coats—It clings—It floats

FOAM OF FIRE AMERICA, INC., Dept. 90, 200 Fifth Avenue, New York City

Foamite

Firefoam

SMOTHERS FIRE

Nunnally's
THE CANDY OF THE SOUTH
The Best Christmas Gift

At every theatre in the world where the management can afford the best

FOX

Sunshine Comedies

Mostly
Two Thousand Feet
long and
Two Thousand Laughs
wide

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FOX ENTERTAINMENTS

THE LADIES

HOME JOURNAL

20 CENTS

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Through our Foreign and Commercial Service Departments, working in close coöperation with the other departments of the bank, we are prepared to aid manufacturers and merchants in the prosecution of foreign trade. We will supply desired commercial and credit information, and finance foreign trade transactions.

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Miller First Mortgage Bonds are always secured by properties of a non-speculative character; that is, properties well located for their purpose, of established earning power,—properties fulfilling a genuine economic demand.

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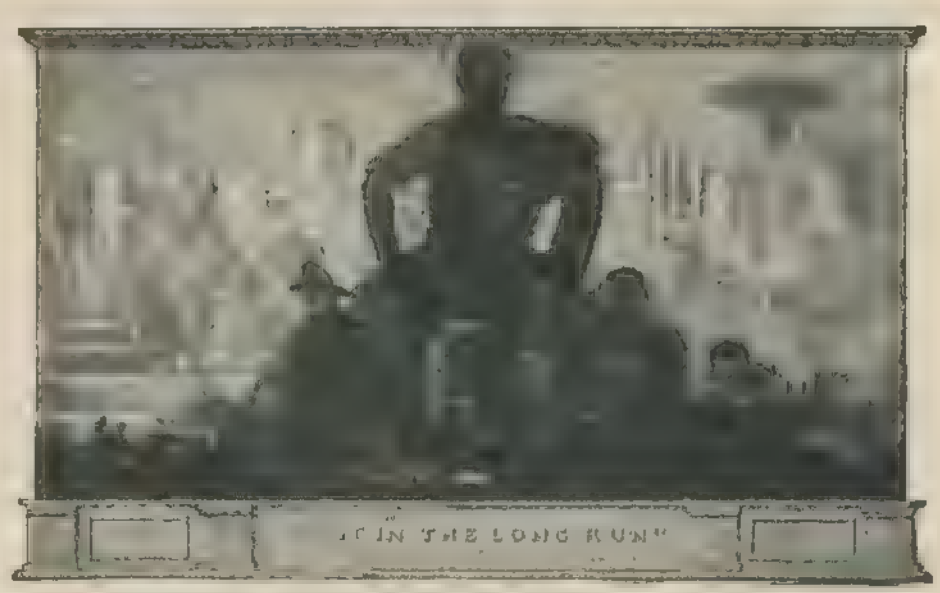
THE FRANKLIN SEDAN

THE proof that people interested in fine cars are also interested in low upkeep costs, slower depreciation and greater comfort, is found in the turn from heavy, rigid cars to the light weight and flexible Franklin Sedan.

It has the most rapidly increasing sale of any fine car, not only because of what it gives in extra performance, but also on account of what it eliminates in the way of routine care and trouble. Its owners average:

20 miles to the gallon of gasoline
12,500 miles to the set of tires
50% slower yearly depreciation.

FRANKLIN AUTOMOBILE COMPANY, SYRACUSE, N. Y.



The *Real* Meaning of *"Best in the Long Run"*

"Best in the Long Run" is a slogan that is almost as old as the history of tires. It grew out of the performance of Goodrich Tires on bicycles, and it grew into the *dependability* of Goodrich rubber products of all kinds.

It is not just a catch phrase. It is a plain statement of fact.

It is really a mirroring of the confidence placed in Goodrich products by their users.

In five words it crystallizes the ideals, the policies, the principles of Goodrich.

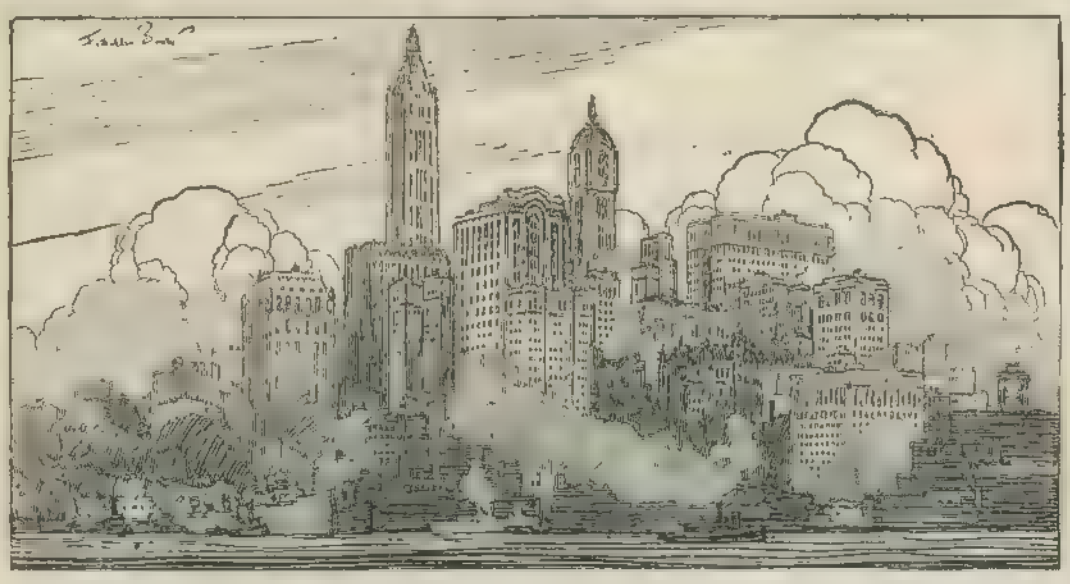
It means "the long run" of good faith and good will—the steady building up of a confidence in the minds of the users, *which is the greatest asset a manufacturer can have.*

That is how Goodrich translates this slogan into terms of longest average wear, utmost dependability and known quality in all kinds of rubber products.

THE B. F. GOODRICH RUBBER COMPANY, AKRON, OHIO

Goodrich Tires

"Best in the Long Run"



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MANY manufacturers and merchants outside of New York City find it advantageous, when consistent with their local banking connections, to maintain an account with this Company.

New York is the financial center of America, if not of the world; it is the center of the country's foreign exchange business; it is the country's chief commercial market; it is the greatest port for foreign trade. A fully-equipped New York banking institution, working for your interests, can assist you materially in your domestic and foreign business.

An account with this Company enables you to make settlements *direct* with New York funds. It puts you in close and immediate contact with the foreign banking facilities of the financial centers of the world. It opens to you the facilities for information and business service afforded by the forty departments of this Company, covering every domestic and foreign banking, investment, and trust function.

If it would not conflict with your local banking arrangements, we should be glad to discuss with you personally or by correspondence the advantages of New York banking relations with us.

Booklets describing our various services will be sent on request.

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Capital & Surplus $50,000,000 Resources over $800,000,000

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CANADIAN HOME JOURNAL

Published by THE CANADIAN WOMAN'S MAGAZINE PUBLISHING Co. Ltd.
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E. W. GILLETT CO. LTD
TORONTO, CANADA
WINNIPEG MONTREAL
Copy of "The Magic Way" will be mailed free upon request
WHITEST, LIGHTEST AN
1 LB.
MAGIC
BAKING
POWDER
ONTAINS NO ALUM

FEBRUARY

35¢

SHADOWLAND

We Save Two Things Your Neck and Your Temper

Dropping elevators are killing folks every day

Machines of all sorts usually break down because they have been overloaded and overstrained.

THE RIDGWAY ELEVATOR DON'T GO WHEN OVER-LOADED

The moving load can never be more than the area of cylinder multiplied by the steam pressure

Consequently a Ridgway elevator is never overstrained for a catastrophe

You are absolutely safe when you "Hook'er to the Biler."

The Ridgway Elevator is Profanity Proof.
It makes a man "hot" when he wants to get stuff up or down stairs and the Elevator "lays down."
"What's the matter now?" the man yells.
"Elevator's on the bum," is the reply
"What's wrong?" is the next cry
"Lost the juice," are the fatal words.
And the air gets blue
Blankety, blank that blank Engineer that put these blank things in a busy place like this."

"WHY IN THE DICKENS DON'T THEY GET RIDGWAY ELEVATORS LIKE YALE & TOWNE HAVE?"

We are furnishing Ridgway Elevators to the finest concerns all over this land and other lands. Here's a sample of 3000

United Gas Improvement Co.	H. J. Heinz Co. "57"	United States Government
Yale & Towne Mfg. Co.	International Harvester Co.	E. I. Du Pont & Co.
Chas. Peabody & Co.	John Wanamaker	General Electric Co.
Consolidated Gas Co.	Remington Typewriter Co.	Packard Motor Car Co.
National Cash Register Co.	Continental Gin Co.	Continental Can Co.
Hammermill Paper Co.	Erie Railroad Co	American Tobacco Co.
Procter & Gamble Co.	Crane & Co. (Dalton)	John Morrell & Co.
Penna. R. R.	Michelin Tire Co.	Merrimac Chem. Co.
N. Y. Central R. R.	Am. Hard Rubber Co.	Lukens Steel Co.
New York World	U. S. Rubber Co.	Congoleum Co.
Diamond Match Co.	B. F. Goodrich Co.	Chicago Mill & Lumber Co.
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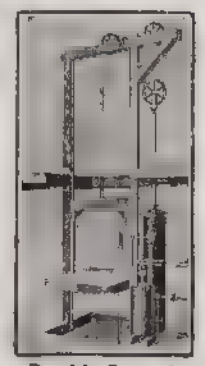
Std. Underground Cable Co.	American Pulley Co.	Remington Arms & Am. Co
Gen'l Refractories Co.	Lowell Bleachery	Spanish River Paper Co.

And yet there are Engineers who deliberately put Electric elevators on factory owners who have steam when they might bless such owners by

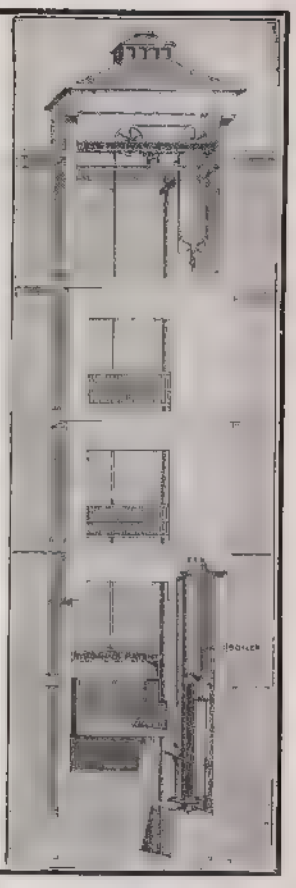
"HOOKIN' 'ER TO THE BILER"

Direct Acting

Over 2,000 In Daily Use



Double Geared



CRAIGE RIDGWAY & SON CO., Coatesville, Pa.
ELEVATOR MAKERS TO FOLKS WHO KNOW

Contracting for Profit

Profit in Contracting depends upon efficiency.

The American "Gas-O-Motive" speeds up the equipment and the organization

Built extremely staunch it is impervious to hard usage of contracting gangs. It stands up under even unfair treatment

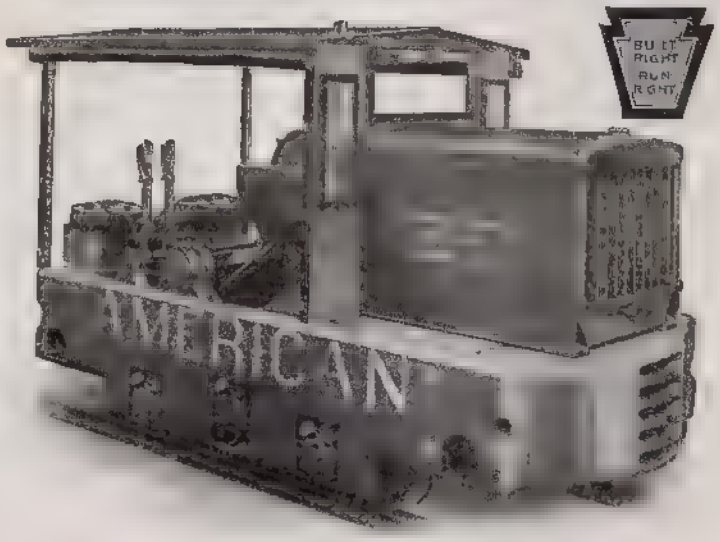
It is always on the main track working. Never on the side track for tinkering or tampering

Simple in design it is safe in the hands of even an incompetent

Quick in action, it is here, there and everywhere doing the work of two ordinary locomotives

Ample Built In stress factors equip it for heavy work and keep it at it. Continuous service invited

The American is Friction drive. Hercules motor. Efficient cooling system Telescopic coupling in transmission housing. Self-aligning Axle Direct full vision ahead. Drive chain run in oil. Positive 4-wheel sander. Parts accessible.



The American Gas-O-Motive represents an investment costing you 50 cents a day; it would be worth many times that to you

Built in several sizes Get specifications, price and delivery.

The Hadfield-Penfield Steel Co., Bucyrus, Ohio, U. S. A.

Locomotive Sales Dept., 404 Hippodrome Bldg., Cleveland, Ohio

WHERE fashion dictates and good taste has highest expression, Hartmann Wardrobe Trunks are most distinctively in evidence.

Be sure the Hartmann Red X is on the trunk you buy.

HARTMANN TRUNK COMPANY
Racine, Wis.

HARTMANN
TRADE-MARK
WARDROBE TRUNKS

A Hercules Glazier Entering Top of Glaze Mill with Car of Green Grain

The Powder Maker

Considering how important his work is to the public, it is fitting that more should be known about the powder maker and his job.

The characteristics which fit him for his work are as largely mental as physical, and the work itself develops his acuteness of mind—his powers of observation, judgment, and decision.

The powder worker trained in the school of the Hercules plants learns to take in all his surroundings at a glance. If he enters one of the small buildings on a dynamite or black powder line nothing escapes him. He sees instantly many things which the casual observer might gaze at for minutes without noticing

A large part of the explosives used in the United States, and much that is used in foreign countries, is made by the men in twelve Hercules plants—four for dynamite and eight for black blasting powder.

Behind all our manufacturing industries and our railroads, behind all the useful and beautiful objects fashioned out of metals—from hob nails to scarf pins, and from steam shovels to limousines—stands the powder worker. Without the explosives he supplies—hundreds of millions of pounds annually—the miner's efforts to move the vast inert bodies of ore and coal would be as futile as the scratching of hands.

HERCULES POWDERS

HERCULES POWDER CO.

Chicago	St. Louis	New York
Pittsburg, Kan.	Denver	Hazleton, Pa.
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EUROPE IN 1920

THAT trip abroad of yours—long postponed—is it to remain a dream of the future? Will you *ever* be better able to go than this year?

Travel abroad always holds out to us the opportunities of knowing at first hand, the life, history, art and monuments that we now know only imperfectly through our reading.

This year, in addition, we may see for ourselves the great stage upon which has been enacted one of the epochal crises in the history of the world.

In the special conditions existing today, our great organization is better than ever prepared to help you with your plans and make smooth and comfortable your travels.

Write us now of your tentative plans; itineraries to include France, Belgium, Switzerland, Italy, Holland, Great Britain, etc.

THOS. COOK & SON, New York

Boston Philadelphia Chicago San Francisco
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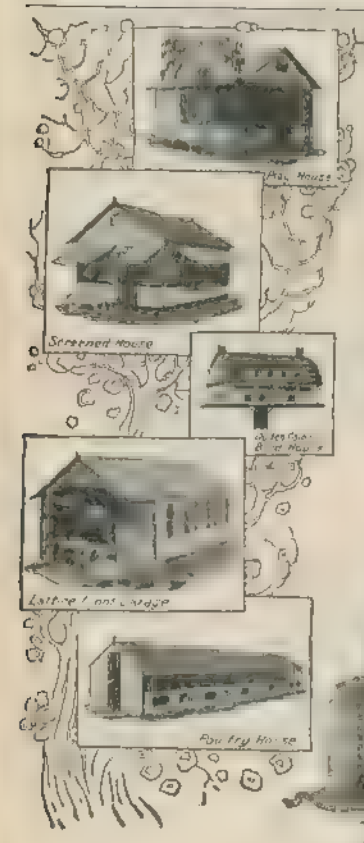
HODGSON *Portable* HOUSES



Received Ready-made

It is no longer necessary to follow the long tedious methods of building a house. Hodgson Portable Houses are delivered in painted sections ready to bolt together—even without the aid of a skilled workman. The illustrated catalog shows the kinds and varieties you can select.

There are houses and cottages from one to ten rooms: play-houses, bird houses, dog houses; churches, hospitals, schools, barracks, offices and garages.

Hodgson Houses are carefully designed and built to last. Seasoned Oregon pine and red cedar are the materials.

Their construction is correct—as a result, doors, windows, everything, fit perfectly in place. Attractive Hodgson lattice work and flowers and shrubbery make these ready-made houses most picturesque.

The order should be placed immediately for summer and fall delivery. Write today for catalog.

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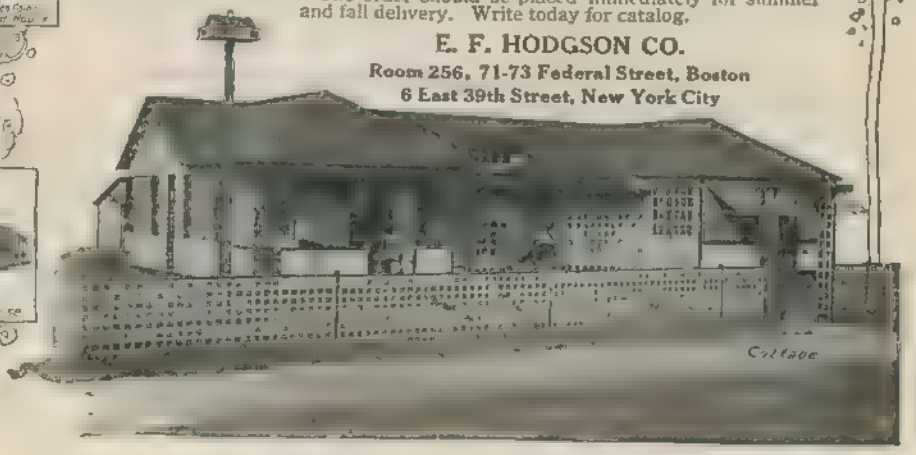

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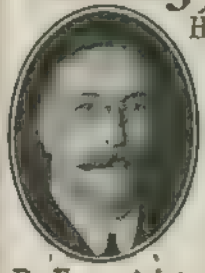
Unclassified

Training for Authorship

How to write, what to write, and where to sell.



Cultivate your mind. Develop your literary gifts. Master the art of self-expression. Make your spare time profitable. Turn your ideas into dollars.

Courses in Short-Story Writing, Versification, Journalism, Play Writing, Photoplay Writing, etc., taught personally by Dr. J. Berg Esenwein, for many years editor of Lippincott's Magazine, and a staff of literary experts. Constructive criticism. Frank, honest, helpful advice. *Real teaching.*

Dr. Esenwein

One pupil has received over $5,000 for stories and articles written mostly in spare time—"play work," he calls it. Another pupil received over $1,000 before completing her first course. Another, a busy wife and mother, is averaging over $75 a week from photoplay writing alone.

There is no other institution or agency doing so much for writers, young or old. The universities recognize this, for over one hundred members of the English faculties of higher institutions are studying in our Literary Department. The editors recognize it, for they are constantly recommending our courses.

We publish *The Writer's Library*, 12 volumes—descriptive booklet free. We also publish *The Writer's Monthly*, the leading magazine for literary workers, sample copy 20c, annual subscription $1.00. Besides our teaching service, we offer a manuscript criticism service.

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Summer Camp

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THE ARROWHEAD CAMP FOR GIRLS

Lake Champlain

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A Country School for Girls Bryn Mawr, Pa.

Preparation for Bryn Mawr, Mount Holyoke, Smith, Vassar, and Wellesley Colleges. Also strong general course. Within 2 years 201 students from this school have entered Bryn Mawr College. Fire-resisting stone building. Abundant outdoor life and athletics.

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Offers a thorough physical, mental and moral training for college or business. Under Christian masters from the great universities. Located in the Cumberland Valley, one of the most picturesque spots of America. New gymnasium. Equipment modern. Write for catalog. Address Box 102.

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THE PRINCIPALS, ALICE G. HOWLAND, ELEANOR O. BROWNELL

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A country school in a college town. College preparatory. Wildcliff—The Graduate School. Seven Gables—The Junior School for girls 11 to 14. Hillcrest—for little folks 6 to 11. Each has separate complete equipment. Illustrated catalog required. Address Box 1538

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BOARDING AND DAY SCHOOL FOR GIRLS

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Founded 1850

A country school for girls in the Rydal Hills. 25 minutes from Philadelphia, on the New York line of the Philadelphia and Reading. Catalog describing and illustrating new buildings sent on request.

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MISS ABBY A. SUTHERLAND, Principal

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TENNESSEE, Nashville

WARD-BELMONT

FOR GIRLS AND YOUNG WOMEN

offers a six-year course of study embracing two years of college. Reservations for the 1920–1921 session are now being made, and should receive the earliest possible attention. Address

WARD-BELMONT, Belmont Heights, Box C., Nashville, Tenn

THE paths are white with winter snows,
And nurse is pinching cheeks and toes,
And out in doors it's no use try,
For children not yet six years old.

But I don't care—I say outside
Cozy and warm and satisfied.
For after breakfast every day
I straddle my Kar and ride away

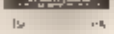
Out of the nursery down the hall,
And clear by maids through the wall
Out and above the trees I sail,
And at last up in the sky

Through the clouds I dash and soon
I'm racing with the Man in the Moon
Or, if he's busy, somewhat
I hurry home in time for dinner

Sometimes my Kiddie Kar's a ship
On which I take an ocean trip
Sometimes a pony on the plain;
Sometimes an airplane and a train

Countries do to distant spots
To see the Dutch and Hottentots
To Egypt, France and Wadsko,
Japan, Peru and Italy.

The child who has no Kiddie Kar
Can never, never go so far
And just every mind and every
O, don't you think that's awfully?



KIDDIE KAR is the ideal outdoor vehicle for boys and girls from one year up. Sturdy and rugged, it is almost impossible to upset and is simple enough for the child always to be in perfect control. Upholstered in genuine leatherette. Adjustable seat for one or more children. Has rubber tires, the finest and most durable on the market. Axles of tubular steel.

This is the ideal outdoor vehicle affording the ride and exercise all parents seek. Nothing to pinch fingers or toes. No pump to wear out. Almost indestructible.

Don't wait another day. Get one now. It will be a big help in keeping the children happy and healthy.

Name of nearest dealer appears on the next page.

You will find Real Kar wherever juvenile vehicles are sold.

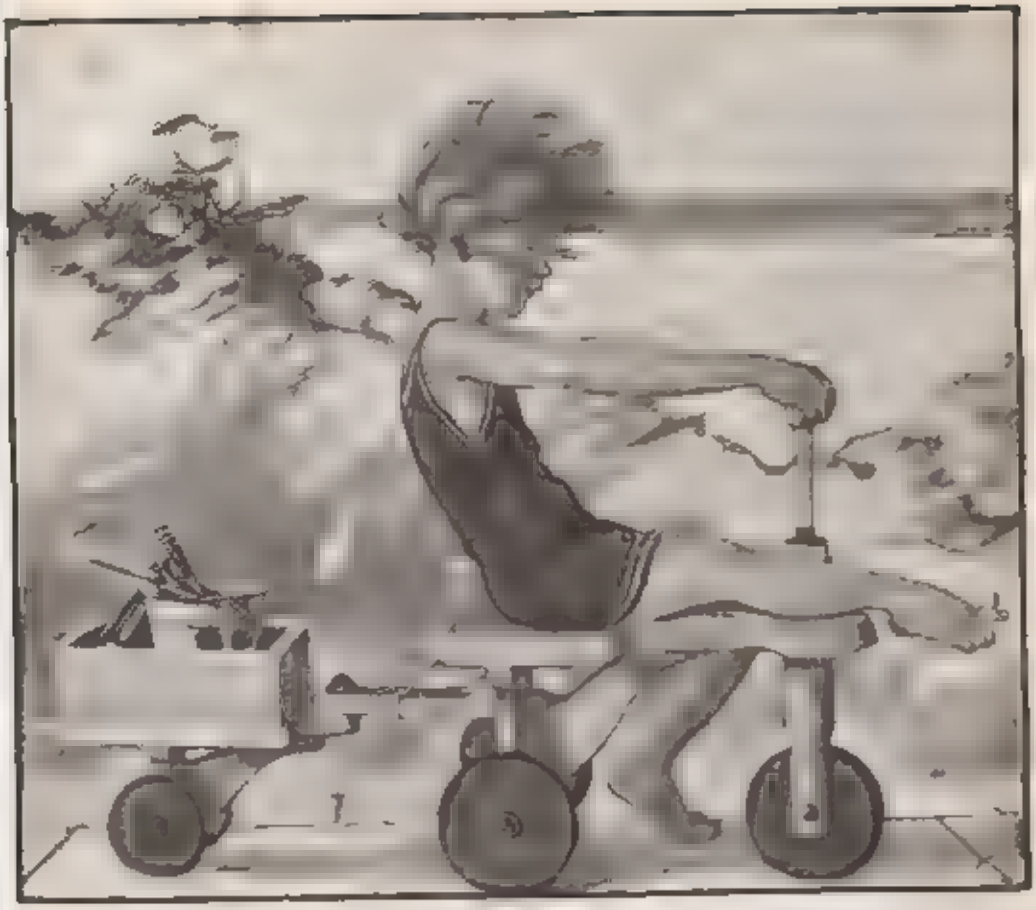
REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

Made in three sizes
[illegible]

KIDDIE-KAR

MADE IN AMERICA FOR AMERICAN GIRLS AND BOYS

The name KIDDIE-KAR is registered in the U.S. Patent Office and in Canada. Registered in the United States Patent Office and in Canada. The KIDDIE-KAR is protected by patents.



WHEN it was time to come away
To spend our summer at the beach
And leave the sand with all to play,
I went and asked my father to teach

me my Jollies all except
The ones about the streetcar
I used them today as a new slope
And whispered Dad I'll summer in

I put away my rocking-horse
My toys and everything so good
that's grand, because of course
They'd bring my Kiddie Kar I thought

I went to get it at last rush
Myself all safely wrapped and then
My father said, "What is this junk?"
And laughed and took it out again.

He said there was the space to spare
But when I cried and ran to mother
He said "A boy as we can see here
I promise you shall have another"

So now along the tumbling seas
Far down the curving coast line blue
As ever and the breeze
Racing the south to and the blue

I've come home to keep
The Kiddie Kar we must be such.
Jr Kiddie-Kars are very cheap
I often sit and wonder which

Kiddie-Kar

THEY WERE Jollies Kiddie Kar
[illegible]
[illegible]
[illegible]

On Christmas Eve I went to bed
And hung my stocking by my head
Then went to sleep quick and tight
And dreamed soundly all the night

When I awoke and looked at once
What do you think I saw?
The stocking full of toys—and more,
A Kiddie-Kar upon the floor.

I had asked Santa Claus to bring
A dozen different kinds of things
But still it was the Kiddie Kar
I needed in particular

I rode upon it all the day
And had no time for other play
Until we had our Christmas tree
With many useful gifts for me

Soldiers and animals games and blocks,
A ball and bat and woolly socks,
A sled that goes a gun that shoots,
An engine and some rubber boots.

I played with each a little while
And then I put them in a pile
And took them to my room, and then
I rode my Kiddie-Kar again.

When I am big and rich and wise,
I mean to give a great surprise
To all the boys and girls where are
I'll send each one a Kiddie-Kar.

KIDDIE-KAR

Of all the Christmas gifts the one which will be most prized and will last longest is the Kiddie-Kar. It is for as practical reasons as it is for sheer joy. It is as all the year round

as it is solidly built that it is practically indestructible. The axles are of iron. The wheels are strong and stay tight. There is no paint to come off. The steering post will not break if the child wobbly

And it is perfectly safe for any child boy or girl even the child who does not yet learned to walk.

The demand for Kiddie-Kars is so great that you had better buy one as soon as they are all gone. You will like them wherever riddle vehicles are used

REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

Made in Five Sizes

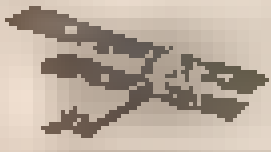
KIDDIE-KAR

MADE IN AMERICA FOR AMERICAN GIRLS AND BOYS

Building and Flying

Model Aeroplanes

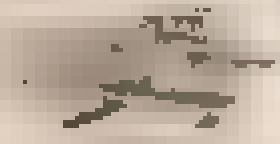
Real Fun For Lads and Boys

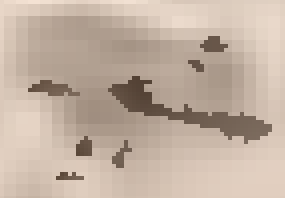


Get An

IDEAL Model Aeroplane

for Christmas





IDEAL AEROPLANE & SUPPLY COMPANY

DECEMBER 18, 1920

The Literary Digest

NEW YORK FUNK & WAGNALLS COMPANY LONDON

PUBLIC OPINION, New York, combined with THE LITERARY DIGEST

Vol. 67, No. 12 Whole No. [illegible] DECEMBER 18, 1920 Price [illegible]

IVER JOHNSON SAFETY AUTOMATIC REVOLVER

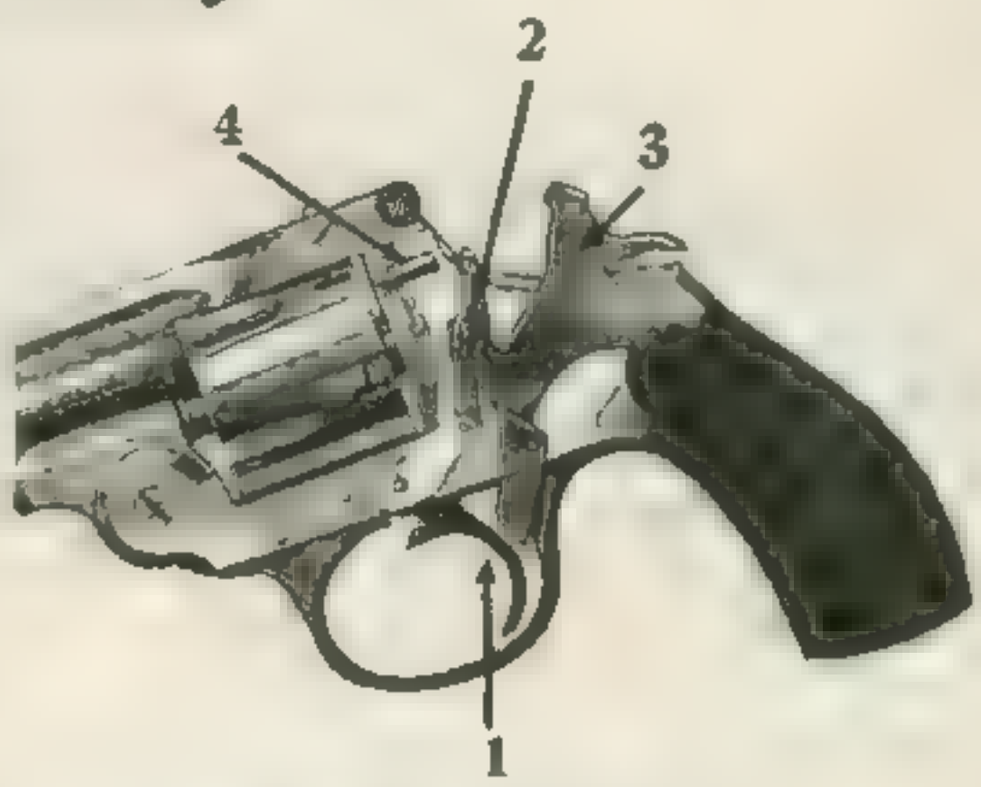
"See, it can't go off accidentally"

"The only way to discharge an Iver Johnson is to pull the trigger (1) all the way back. This action raises the lifter (2) which forces the hammer (3) to cocking position. When lifter is at its highest point, the hammer covers the firing pin (4) and at this position the hammer is released, striking the lifter, which in turn strikes the firing pin."

No impact can force the hammer against the firing pin. Thus the world-famous slogan, "Hammer the Hammer." And that is why women are not timid about having an Iver Johnson in the home.

Drawn tempered piano-wire springs keep the Iver Johnson permanently alive and alert. And the perfect rifled barrel speeds the bullet straight as a streak of light.

Choice of three grips: Regular, Perfect Rubber, Western Walnut.



If your dealer hasn't in stock the particular model you want, send us his name and address. We will supply you through him

IVER JOHNSON'S ARMS & CYCLE WORKS

307 River St., Fitchburg, Mass.

99 Chambers St., N. Y. **717 Market St., San Francisco**

Three Booklets—One or All Free on Request.

"A"—Arms; "B"—Bicycles;
"C"—Motorcycles

Iver Johnson Single and Double Barrel Shotguns combine accuracy and dependability.

Iver Johnson "Superior" Roadster Bicycle, $55.00
Other Models $37.50 to $65 00
No extra charge for Coaster Brake

Please Mention Popular Mechanics

The biggest business in the world

With an Ives Toy railway system you can learn all about the great business of transportation while you are having the best of fun. You lay the tracks, install switches, signals, bridges, tunnels and stations. You are the builder, general superintendent, engineer and president of your railroad, all in one—learning every detail of the business.

Ives trains are just like the real trains. They have powerful mechanical or electric locomotives. There are beautiful coach, buffet and baggage cars, coal cars, tank cars, cattle cars and bright red cabooses.

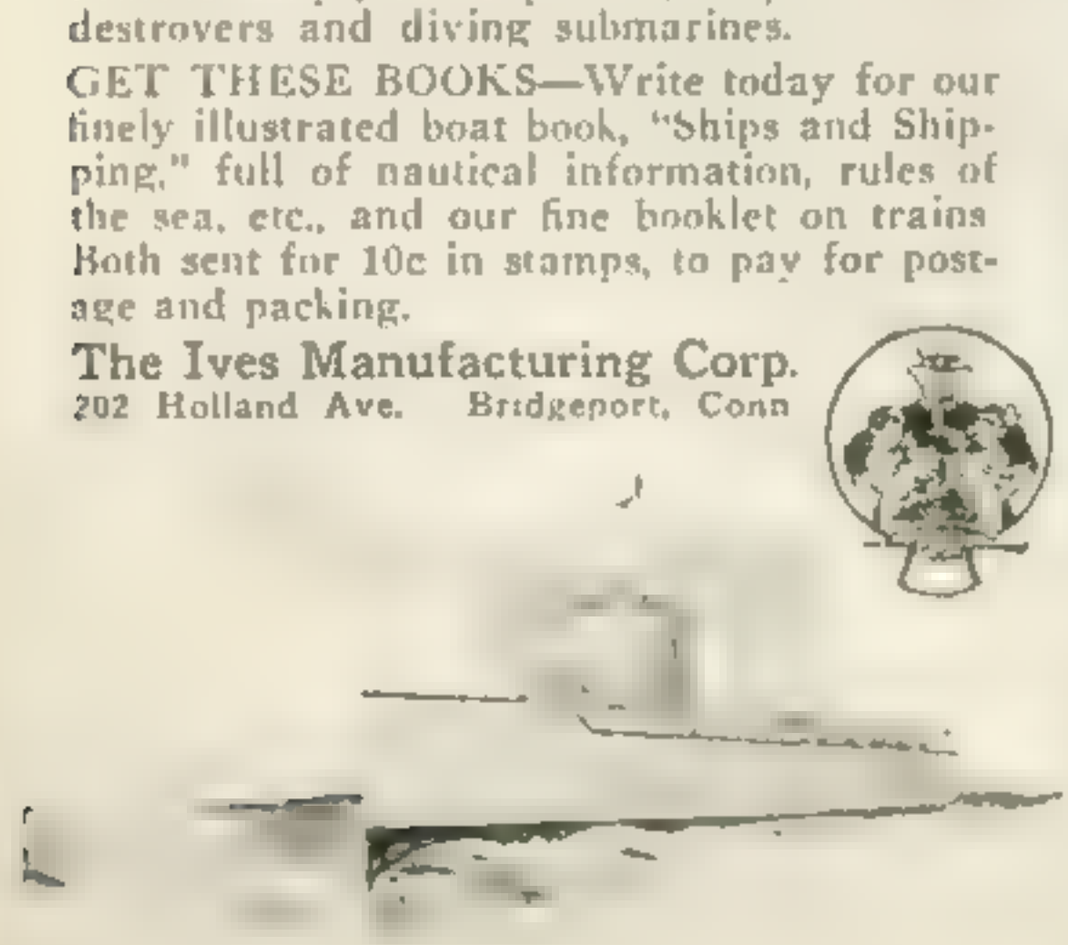
Ives Toys

Make Happy Boys

Ives boats are made of steel with strong, long-running motors and real screw propellers. They will run a long time in water under their own power. There are ocean liners, tugs, steam yachts, launches, U. S. Marine Ships, scout patrols, torpedo boats, destroyers and diving submarines.

GET THESE BOOKS—Write today for our finely illustrated boat book, "Ships and Shipping," full of nautical information, rules of the sea, etc., and our fine booklet on trains. Both sent for 10c in stamps, to pay for postage and packing.

The Ives Manufacturing Corp.
202 Holland Ave. Bridgeport, Conn.



A New Sport for Auto-Wheel Clubs

AUTO-WHEEL SAILING. What fun you'll have with this new amusement. Attach a sail to your **Auto-Wheel Coaster** or **Auto Wheel Convertible Roadster.** The roller bearings are the same as used on automobile wheels. That's why the name **"Auto-Wheel"** means so much.

The **Auto-Wheel** carries 1000 lbs. The roller-bearings will not crack or chip as old-fashioned ball-bearings do.

The November *"Auto-Wheel Spokesman"* tells how to make a sail for your **Auto-Wheel** wagon. Send for it.

Organize an *Auto-Wheel* Club

FREE caps to members. Special Captain's cap. FREE **Auto-Wheel** Dime Bank. Just send names of three coaster dealers in your town, telling which ones sell the coaster wagon with the name **"Auto-Wheel"** on the sides.

The Auto-Wheel Coaster Co. Inc.
Formerly
The Buffalo Sled Company
177 Schenck Street,
N. TONAWANDA, N. Y.
In Canada: Preston, Ont.
Export Office: 385 W. 23rd Street, New York City

Auto-Wheel

$30 to $50 Clear Profit a Day

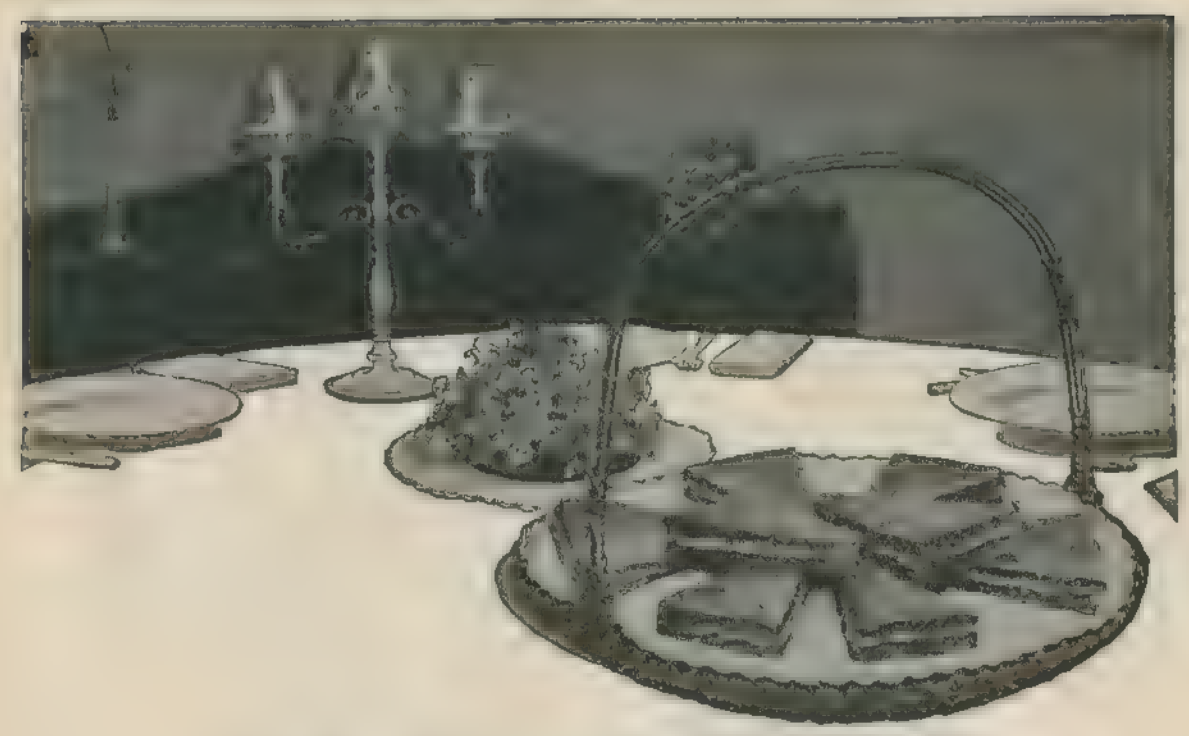
Go into the Floor Surfacing business; make big money without previous experience. Shortage of labor, high wages and demand for better floors is met with the American "Universal." It does more floors than six men can do by hand and does it better. Electrically operated; surfaces old or new floor flush to sidewalls. Can be used on any size floor from a cottage to largest auditorium.

Here's your chance to establish a big-paying business with a small investment. Every building a prospect. Contractors and architects prefer machine work. Machine will pay for itself first month and leave good profit beside.

Here's your opportunity; write TODAY for complete literature. It's Free.

12,000 laid

American Floor Surfacing Machine Company
Originators of Floor Surfacing Machinery
31 American Bldg., Toledo, Ohio



The "Saving" Grace

THERE'S a happy combination of simplicity and elegance in the "golden goodness" of Elkhorn Cheese which makes it grace any table, any time.

The flurry occasioned by unexpected guest subsides when you think of that row of Elkhorn tins on the shelf.

Delicious, just as it comes from the tin, in rarebit or sandwiches. It not only "saves the day" but saves in living cost.

Condensed food-value, also, is an economy. There are many more butter units in Elkhorn Cheese than in the ordinary, and its absolute uniformity takes out all guesswork.

Only Elkhorn is put up in tins because it is the ideal way to market this sensitive food, and the process is the exclusive patent of the J. L. Kraft & Bros. Co.

Send your dealer's name and 10c in stamps or coin for sample tin of Kraft plain or Pimento flavor, or 20c for both. Illustrated book of recipes free. Address 355-9 River St., Chicago, Illinois.

J. L. KRAFT & BROS. CO.
CHICAGO NEW YORK

ELKHORN CHEESE
IN TINS — 8 VARIETIES

8 VARIETIES

Each of National Favor

Kraft
Chile
Swiss
Pimento
Rarebit
Camembert
Roquefort
Limburger

REAL KIDDIE KARS ARE MADE ONLY BY WHITE

KIDDIE-KAR

WHEN it was time to come away
To spend our summer at the beach
And leave the things with which I play
I went and said goodby to each

I left my dollies, all except
The oldest and the dearest one
I kissed them softly as they slept
And whispered "Rest till summer's done".

I put away my rocking-horse,
My toys and everything I've got
I didn't mind, because of course
They'd bring my Kiddie-Kar, I thought

I went and put it in the trunk
Myself, all safely wrapped, and then
My father said, "What is this junk?
And laughed and took it out again

He said there was no space to spare,
But when I cried and ran to mother,
He said, "As soon as we are there
I promise you shall have *another*"

So now along the tumbling seas
Far down the curving shore I ride,
As swift and merry as the breeze,
Racing the sea-birds and the tide

If we can thus afford to keep
Two Kiddie-Kars, we must be rich,
Or Kiddie-Kars are very cheap -
I often sit and wonder which!

KIDDIE-KAR

TO any active child the Kiddie-Kar becomes so much a part of daily life that to be deprived of it for even two weeks is almost a calamity

But Kiddie-Kars are so inexpensive that when you go away you can get your child a special one for vacation use. It will be worth many times its small cost in the pleasure it affords out-doors — and in-doors on those dreary rainy days

And at the end of the summer you can give it to some child who has none

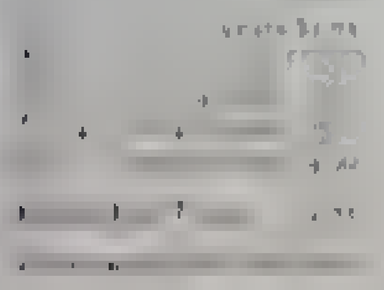
Kiddie-Kar is perfectly safe, even for a baby — close to the ground, almost impossible to tip over, no sharp corners or splinters, no adjustments to pinch the fingers, tear clothes or get out of order

It not only affords healthful exercise out of doors, but it is the only practical in-door vehicle

You find Kiddie-Kars wherever juvenile vehicles are sold

REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

Made in five sizes

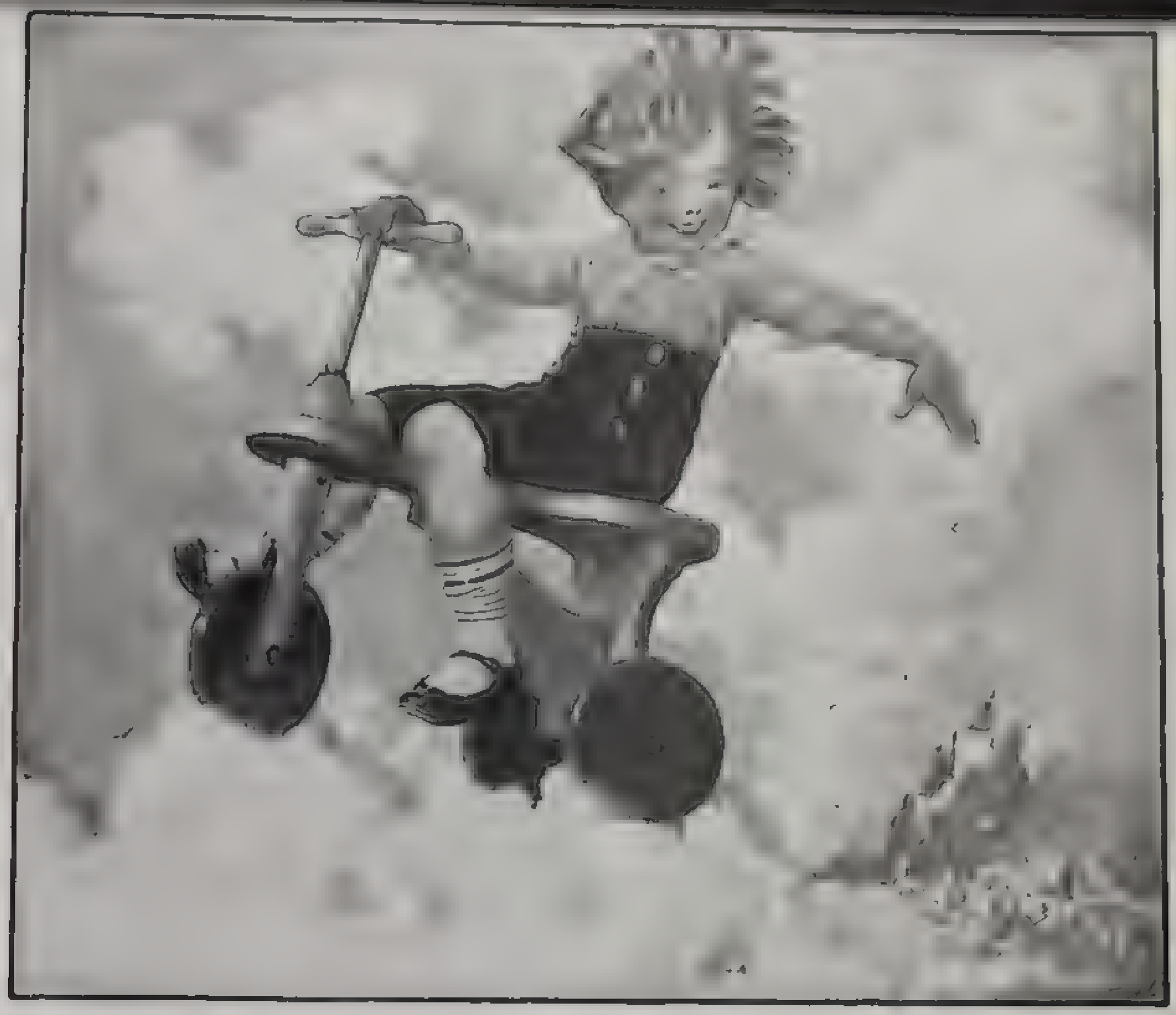


KIDDIE-KAR

Trade Mark Reg. U. S. Pat. Off.

MADE IN AMERICA FOR AMERICAN GIRLS AND BOYS

KIDDIE
H C
Outdoors. The name KIDDIE-KAR is a registered trade mark; it is always on the seat. The KIDDIE-KAR is protected by four patents



THE paths are white with winter snows,
Jack Frost is pinching ears and toes,
And out-of-doors it is too cold
For children not yet six years old.

But I don't care. I stay inside
Cozy and warm and satisfied;
For after breakfast every day
I straddle my Kar and ride away.

Out of the nursery, down the hall,
And then by magic through the wall
Out and above the trees I fly,
An aviator in the sky.

Through the clouds I dash and soon
I'm racing with the Man in the Moon;
Until at last, an easy winner,
I hurry home in time for dinner.

Sometimes my Kiddie-Kar's a ship
On which I take an ocean trip;
Sometimes a pony on the plain;
Sometimes an engine and a train.

It carries me to distant spots,
To see the Dutch or Hottentots;
To Egypt, France and Waikiki,
Japan, Peru and Italy.

The child who has no Kiddie-Kar
Can never travel off so far
And visit every land and city.
O, don't you think that is a pity?

KIDDIE-KAR is the ideal indoor vehicle for boys and girls from one year old up to seven and eight. As it is almost impossible to tip over and so simple that the child always has it in perfect control, it does not bang the furniture. As there are no sharp corners or metal parts, it does not scratch. The wheels have rounded treads and do not injure the floors and rugs. And it is almost noiseless.

It is also the ideal outdoor vehicle, affording the child healthful exercise in perfect safety. Nothing to punch fingers, or tear clothes. No paint to come off. Almost indestructible.

Don't wait until spring. Get one now It will last many winters and summers.

Note the list of sizes and prices at the lower left hand corner of this page

You will find Kiddie-Kar wherever juvenile vehicles are sold.

REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

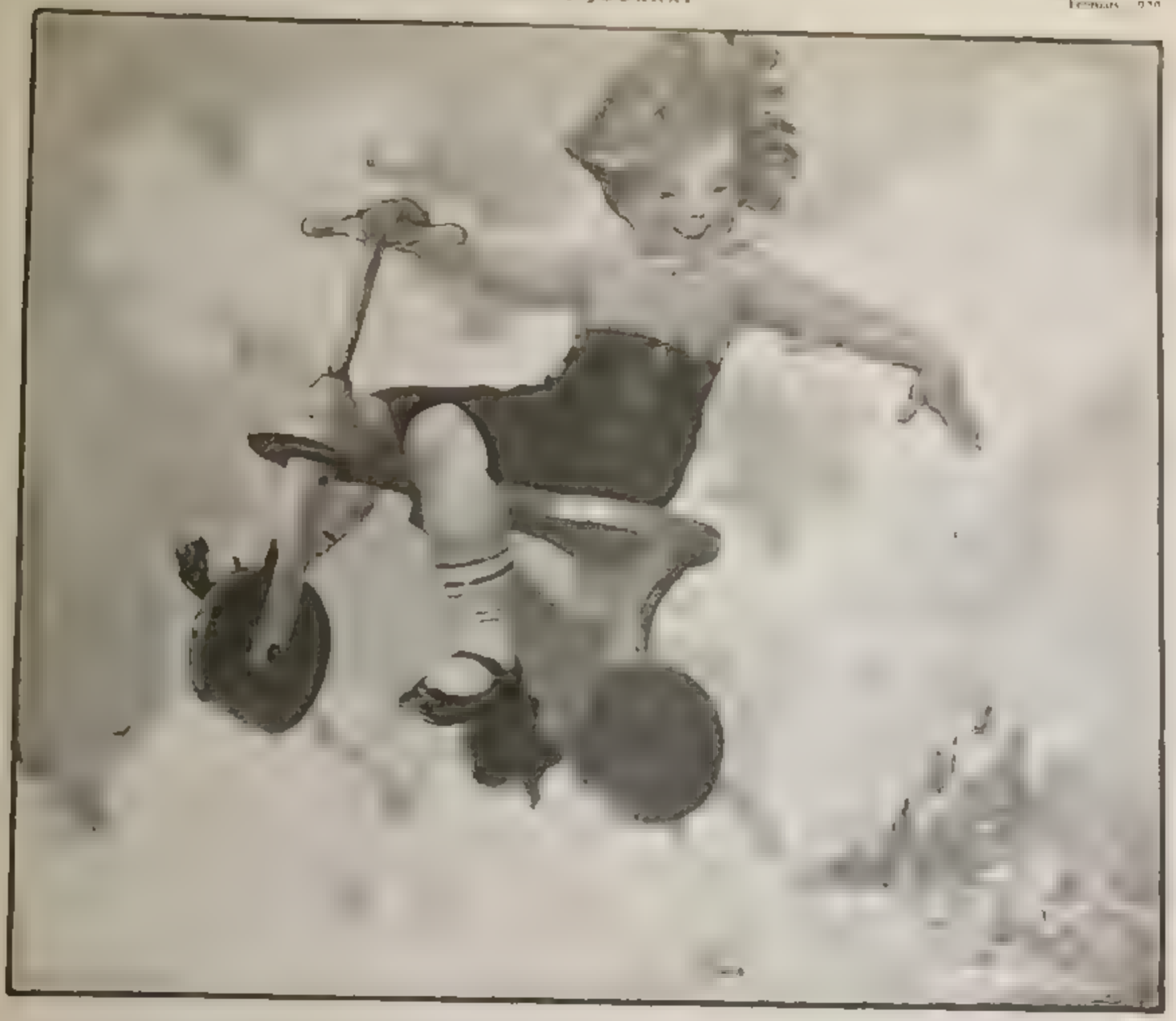
Made in five sizes

KIDDIE-KAR

MADE IN AMERICA FOR AMERICAN GIRLS AND BOYS

The only genuine KIDDIE KAR is made by the H C White Company of North Bennington Vt In Canada Canadian K K Company Elora, Ontario. The name KIDDIE KAR is a registered trade mark; it is always on the seat. The KIDDIE KAR is protected by four patents.

KIDDIE-KAR



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Japan, Peru and Italy.

The child who has no Kiddie-Kar
Can never travel off so far
And visit every land and city
O, don't you think that is a pity?

KIDDIE-KAR

KIDDIE KAR is the ideal outdoor [illegible] boys and girls [illegible] except several [illegible] A [illegible] simple [illegible] parts [illegible] It [illegible] As the [illegible] parts [illegible] and [illegible] to the hands and legs And [illegible]

[illegible] also the ideal outdoor vehicle, [illegible] the cold health [illegible] parts [illegible] Nothing [illegible] clothes No part [illegible] Almost [illegible]

Don't wait until spring [illegible] It will [illegible] many [illegible] and [illegible]

Note the [illegible] sizes and prices [illegible] and [illegible] this page

You will find Kiddie Kar wherever juvenile vehicles are sold

REAL KIDDIE-KARS ARE MADE ONLY BY WHITE

KIDDIE-KAR

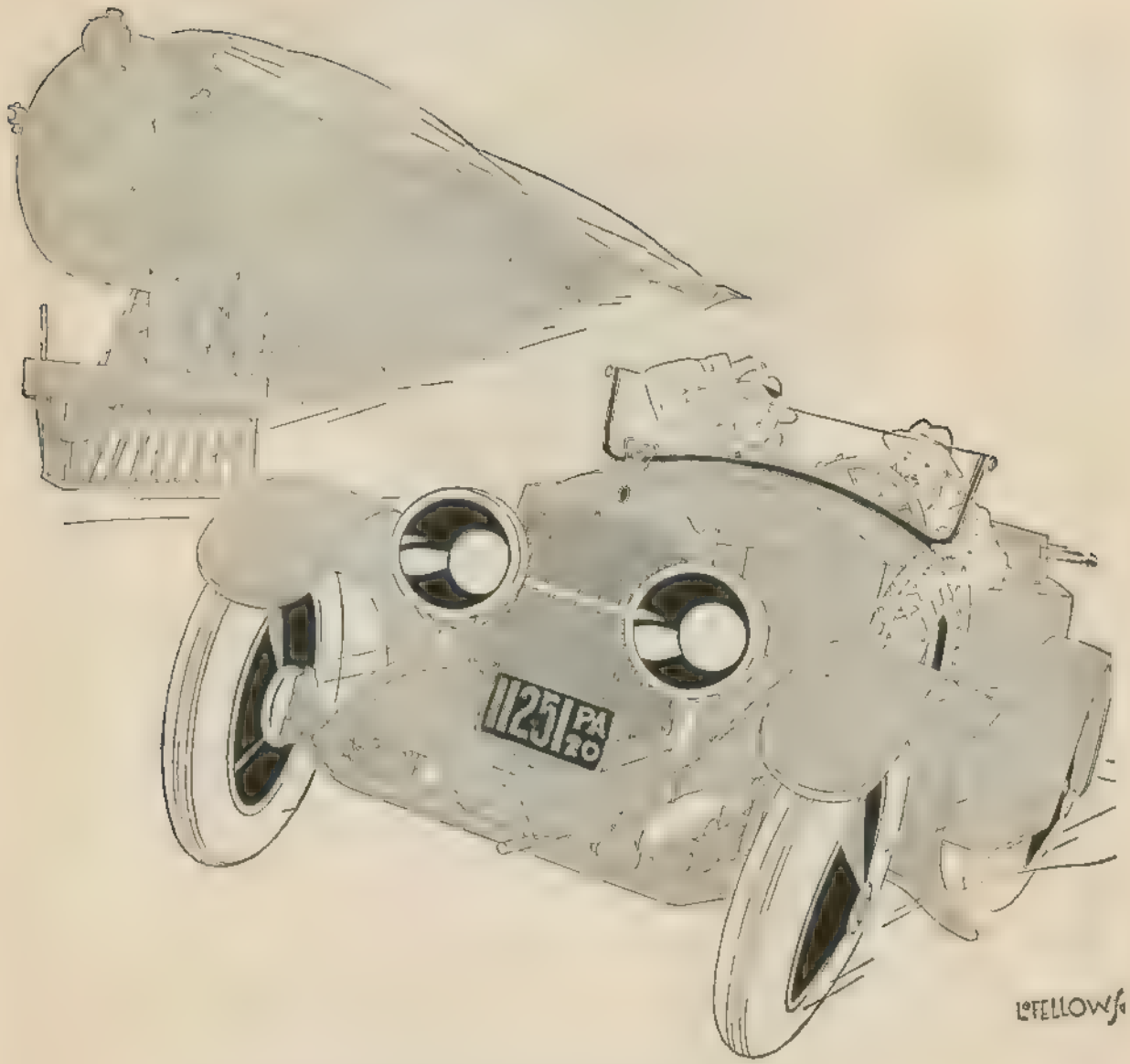
Made in five sizes

No. 1 — for [illegible] years, [illegible]
No. 2 — for [illegible] years, [illegible]
[illegible]
[illegible] for [illegible] years
No. 4 for over 6 years [illegible]

[illegible] of the Mo[illegible]

MADE IN AMERICA BY AMERICAN GIRLS AND BOYS

The only [illegible] KAR [illegible] Write [illegible] [illegible] [illegible]



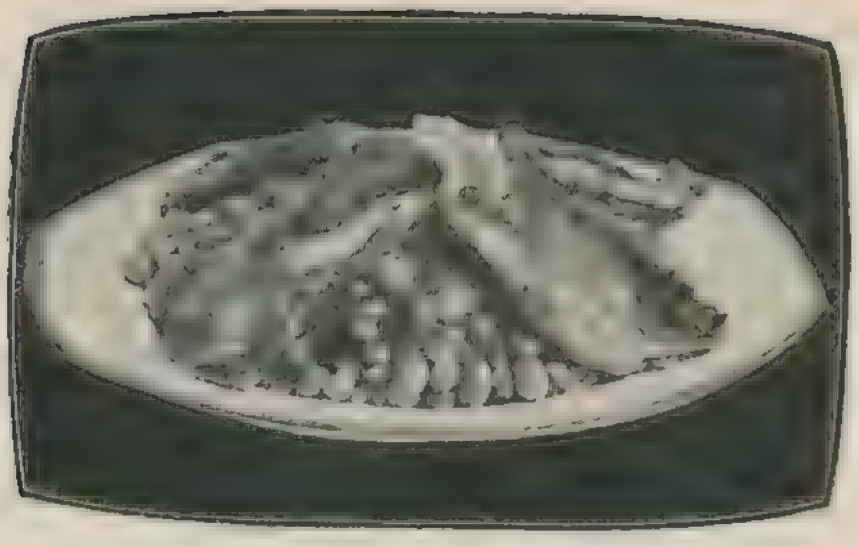
"Suppose one of the tires should blow?"
"Not a chance, my boy; Kelly-Springfields on all around."

LION HATS

The Right Hat for Real Men

As the [illegible] Hat Co. St. Louis, Missouri U. S. A.

La Bohême
Arly
PARIS
Fragrance of
La Bohème
The Perfume
The Face Powder $1.50
Toilet Water $3.50
The Face $3.75
Arly, Paris
Send
25c. to
Vaudou,
Times Building,
N. Y., for a generous sample of La
Bohème perfume.



Try Libby's Beans fixed Mother's old time way

HERE is a dish of beans as they had them when mother was a little girl. Beans, sweet and mellow with the baking, topped off with tender young salt pork, fried crisp and sizzling hot.

What a supper dish to put before a hungry family!

Libby's Beans are just as savory and appetizing as beans ever were, even in mother's memory.

In the first place Libby's Beans are "hand-picked"—which means that all the beans not up to exacting Libby standard of plump perfection are discarded. The pork is fat and tender and the tomatoes for the sauce are picked ripe when they are full of sweet, fresh juices.

Then how carefully Libby chefs cook the beans—not too long but with a slow, steady fire until they are just ready to burst with meaty tenderness.

Order from your grocer today a package of Libby's Pork and Beans with or without the tomato sauce, as you like them. You will never be satisfied with ordinary beans again.

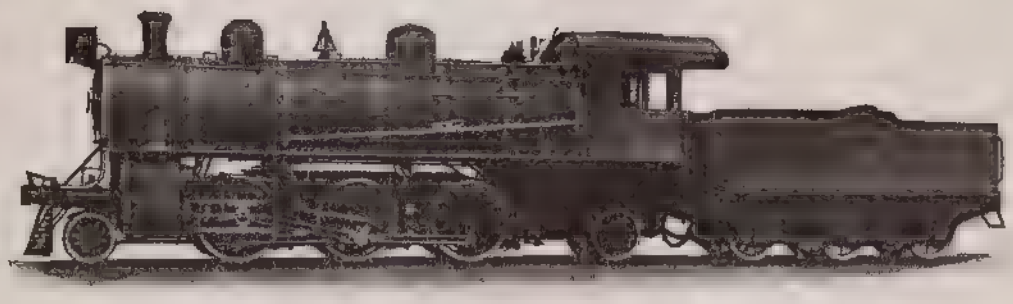
Libby, McNeill & Libby, 604 Welfare Bldg., Chicago

Libby, McNeill & Libby of Can., Ltd.
45 E. Front Street, Toronto, Ont., Can.

Try Libby's Catchup with Libby's Beans —it has just enough "tang"

An old-fashioned dish you will like

Slice salt pork in very thin slices and scald a few minutes in boiling water to which a little soda has been added. Fry in a frying pan as crisp as you like it. Remove from pan, drain a moment, dust with flour and dip in egg, well-beaten and seasoned with salt and pepper. Return to the frying pan to cook the egg, which should puff up and form a cover for the pork. Heat a can of Libby's Pork and Beans. Serve with the slices of pork



SPECIFICATIONS

Maximum ton-mile output at minimum maintenance cost demands locomotives that embody railroad company's practices that have proven themselves in service.

Lima is prepared to build exact duplicates of existing power or to co-operate with railroad engineers in designing locomotives that will even better meet the operating problems which are often changing.

Lima Locomotive Works, Incorporated

Lima, Ohio 30 Church Street, N. Y. City

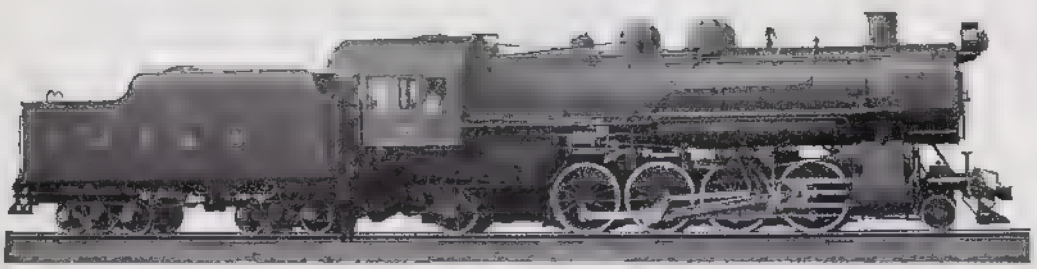
LOCOMOTIVES

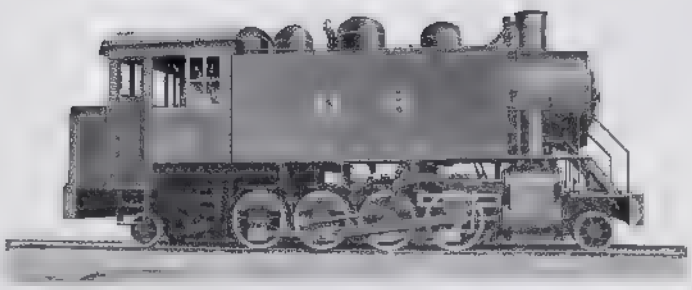
We are equipped to build locomotives of any type and size.

We will submit designs and specifications of locomotives to meet your operating conditions or will follow exactly your own design and specifications.

Lima Locomotive Works, Incorporated

Lima, Ohio — 30 Church Street, N. Y. City





Superheat for

All Types of Power

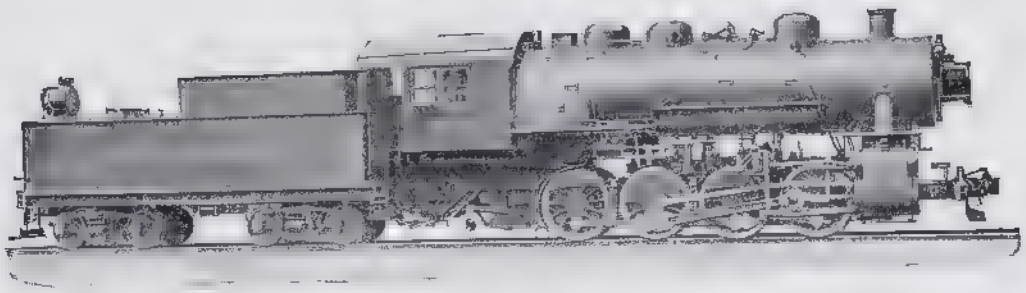
Four and sometimes three superheated yard engines accomplish the same work as five saturated engines of similar size.

Fewer locomotives, working in the same space make your yards more flexible.

Superheating all your yard power means increased yard capacity because a smaller number of engines accomplish the same work and there is more room for each to work in.

Yards become larger by using superheat.

You can demonstrate this—you have both superheated and saturated yard engines.



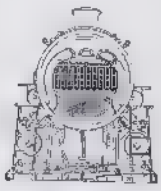
LOCOMOTIVE SUPERHEATER COMPANY

General Offices: 30 Church St., New York

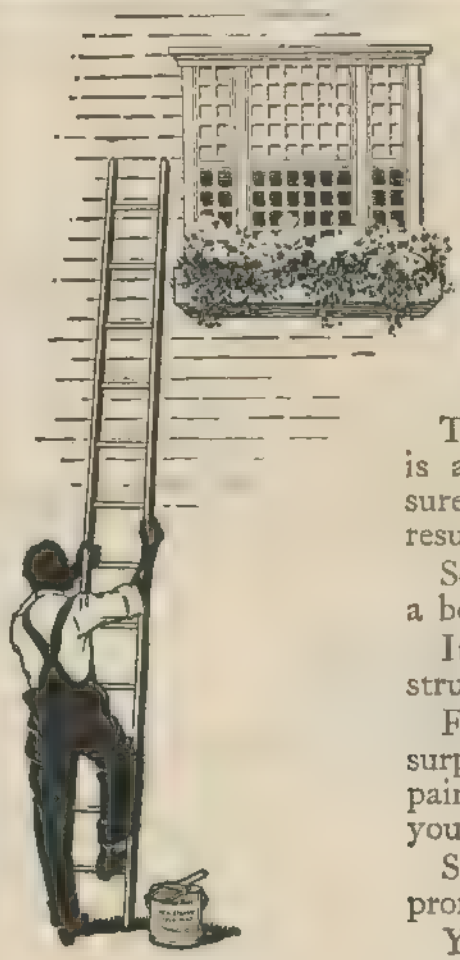
Chicago
Peoples Gas Bldg.

Pittsburgh
Oliver Bldg.

Montreal
Transportation Bldg.



Lowe's



Pointed paint points on right paint and painting

There is a way of painting and there is a kind of paint to use that will surely insure you satisfactory painting results.

So far as we know it is best told in a book called The Happy Happening.

It tells the right ways as well as instructs you against the wrong way.

Further than that it tells you a surprising lot of other things about painting and varnishing, just such as you have long wanted to know.

Send 10c. in stamps and we will promptly see that a copy is sent you.

You will be glad to know that Lowe's Paints and Varnishes are sold by the one best dealer in each town.

The Lowe Brothers Company

472 EAST THIRD STREET, DAYTON, OHIO

Boston New York Jersey City Chicago Atlanta Kansas City Minneapolis Toronto

Paints

Theatre Magazine

June 1920
Vol XXXI No 232

MISS MARION DAVIES

40 cents
$4.00 a year

THE LADIES'

HOME JOURNAL

Makes Your Hair Look Its Best

PROPER SHAMPOOING is what makes beautiful hair. It brings out all the real life, lustre, natural wave and color, and makes it soft, fresh and luxuriant.

Your hair simply needs frequent and regular washing to keep it beautiful, but it cannot stand the harsh effect of ordinary soap. The free alkali, in ordinary soaps, soon dries the scalp, makes the hair brittle and ruins it. This is why discriminating women use

WATKINS

MULSIFIED

REG. U.S. PAT. OFF.

COCOANUT OIL SHAMPOO

This clear, pure and entirely greaseless product, cannot possibly injure, and does not dry the scalp or make the hair brittle, no matter how often you use it

Be Sure to Get

WATKINS

If it doesn't say Watkins it isn't MULSIFIED

Industrial and Commercial Opportunity Abounds in Pittsburgh

PITTSBURGH is unique. Because of her central geographical location, abundant natural resources of fuel, unlimited transportation facilities and present industrial leadership she affords great opportunities for commercial and industrial enterprises in almost every line.

Financial co-operation has played an important part in Pittsburgh's development. Foremost among the great financial institutions that have participated in the growth of this industrial district is the Mellon National Bank. It is always ready with the accumulated value of fifty years banking experience and ample resources to aid enterprises of merit here.

Resources Over $125,000,000.00

Mellon National Bank
Pittsburgh, Pa.

PRESENT market conditions make possible exceptionally high yields.

Proper investment guidance is necessary now.

Ask for Our Booklet C-1

H. M. Byllesby & Co.
Incorporated
111 Broadway, *New York*
208 S. La Salle St. *Chicago*
10 Weybosset St. *Providence*
30 State St. *Boston*

INVESTMENT AND BANKING

(*Continued from page* 28)

law, goes as far in its liberal treatment of the roads as Congress intends it to go, there are better times ahead for American railroads.

One must not assume, however, that there is anything like a guarantee of earnings for individual roads in this new law, similar to the guarantee in the war measure which provided for Government operation of the roads. What has been done by Congress was simply to lay down directions for rate making. As has been stated, after September 1st, 1920, no road will get more than it actually earns. In order to make it easier for the rate-making body to treat the roads more liberally, and to make such treatment more acceptable to the public, those roads which earn more than 6 per cent. on their property valuation will have half of the excess above that rate taken away from them. Here again one must not jump to hasty conclusions, for when it comes to taking earnings away from a road that has "ploughed"

(*Continued on page* 32)

THE NEW SIX-48 TOURING

MOON

MODERN MOTOR CARS

THE straight lines and manifold squares of the Moon design harmonize into finished beauty, whether seen as a whole or sighted in the long lines of the hood from over the steering wheel. Every line, from the sharp angles of the deep, nickel-silver radiator back to the tilt of the extra wheel, conforms to the symmetry of its custom-built appearance.

MOON MOTOR CAR CO. · ST. LOUIS, U. S. A.

We make MURADS of 100% Pure Turkish tobacco to give 100% enjoyment to smokers of 100% good taste.

"Ordinary" cigarettes cannot be 100% Turkish—and you cannot afford to smoke cheap quality cigarettes.

There can't be a better cigarette than MURADS till the world finds a better cigarette tobacco than Turkish—and that does not exist!

"Judge for yourself—!"

Anargyros Makers of the Highest Grade Turkish and Egyptian Cigarettes in the World

JANUARY, 1920

20c a copy

All Outdoors

The Guns That Roosevelt Loved and Used
Arizona's Governor Has a Word For Us
Work of the New York State College of Forestry
Horace Kephart The .22 as a Training Weapon
Four-Page Supplement on Winter Joys of Florida
Trapshooting Skating Conservation Outdoors

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An active ally to business

New England manufacturing has thrived steadily since colonial days. In wool and cotton textiles, shoes, paper, leather and machinery in which New England leads, the yearly production now exceeds three billion dollars in value.

Working side by side with these industries, The National Shawmut Bank renders a banking service as valuable as it is complete. Personal interest in the business of clients is the foundation of the close relationship between this bank and New England business men.

The National Shawmut Bank studies markets and marketing methods systematically. In financing the sale and shipment of merchandise, it offers complete facilities. Trade and credit data are available to customers. Collections are made, credits arranged, acceptances bought and sold. Direct connections in all commercial centers promote quick service.

As an institution closely linked with New England manufacture and trade, The National Shawmut Bank invites additional business from nearby and distant points.

THE NATIONAL SHAWMUT BANK of Boston

Resources over $250,000,000

Correspondence cordially invited. Our booklets, "The Far East", "Acceptances", "Scandinavia" and "The Webb Law" discuss the most satisfactory methods of handling and developing foreign business. Write for copies.

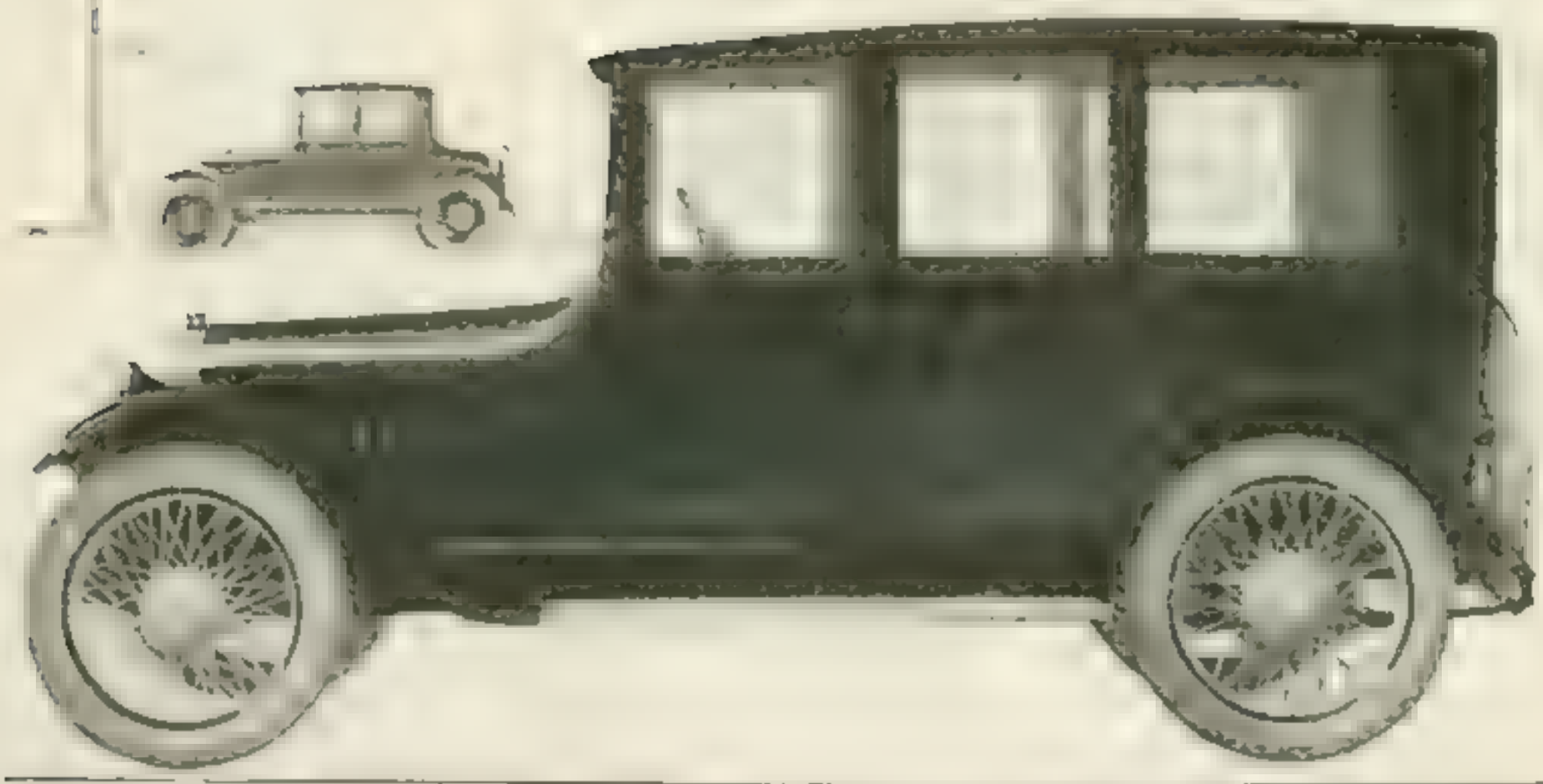
MARMON 34

A real post-war car is the new series Marmon. Both in features of design and accuracy of manufacture, it embodies lessons learned by the Marmon organization in building aircraft engines for the government. For "performance," for smoothness of operation and for long life, it sets new standards for the automotive world.

NORDYKE & MARMON COMPANY
Estab. 1851 INDIANAPOLIS

Oakland

OAKLAND OWNERS REPORT RETURNS OF FROM 18 TO 25 MILES PER GALLON OF GASOLINE AND FROM 8,000 TO 12,000 MILES ON TIRES



THE NEW OAKLAND SENSIBLE SIX [illegible] DELCO POWER WITH THE FAMOUS [illegible] AND [illegible]

FEW things that a man can buy are so continuously useful as this new Oakland Sensible Six Sedan. As a business aide it is a means of swift and economical conveyance, saving time, energy and effort. For leisure hours it is a source of comfortable recreation for the entire family, adding health and security to pleasure. Summer or winter, rain or fair weather, it affords the most efficient personal transportation to be had. The present Oakland product is a refinement of the high-power and light-weight principle, in a chassis of longer wheelbase and stronger construction. More than ever before, it combines maximum utility with minimum operating costs.

OPEN CAR $[illegible] ROADSTER $1165, FOUR DOOR SEDAN, $1295 COUPE, $1095
F. O. B. PONTIAC MICHIGAN. ADDITIONAL FOR WIRE WHEEL EQUIPMENT, $85

OAKLAND MOTOR CAR COMPANY
Pontiac, Michigan

OAKLAND
SENSIBLE SIX

BLEACHED BY
THE SUN

The time and patience involved in making fine embroidery demands good material for a foundation—so that the finished work will have a *lasting* value.

"OLD BLEACH" pure Irish Linens are excellently adapted for embroidering, both on account of the extraordinary long life of the fabric, due to its gentle "Sun-bleaching" method—and to the high valuation that is set upon these famous linens.

"OLD BLEACH" damasks, table cloths, napkins and towels, with their exclusive patterns make priceless family possessions—especially when individualized by an initial or monogram.

"OLD BLEACH" linen for Summer Dress has a value woven into it which makes it worthy of the finest embroidery work.

All these famous linens are pre-shrunk at the mill so that no allowance need be made afterwards for shrinking due to wear and washing.

The Trade Mark "Old Bleach" is stamped on every article except Table Damasks, which have the above mark woven in four corners.

"The OLD BLEACH" LINEN Co Ltd

Reg' Trade Mark

23-25 East 26th Street New York.

J.R LAMONT MANAGER

Canadian Representative: W. H. Steley, 22 West Wellington St. Toronto, Ont.

Signing The Mayflower Compact 1620

NEW ENGLAND invites you to join in the various Tercentenary celebrations planned for the coming year. Visit the early shrines of the American spirit—Provincetown, Plymouth, Boston, Newburyport, Salem and Portsmouth. Visit the later shrines at Lexington and Concord—also the delightful New England summering spots, from the woods and lakes of Maine to the sands of old Nantucket.

The Old Colony Trust Company cordially invites you to make its office your New England address and banking headquarters. It is now serving 40,000 clients in forty-three states and many foreign countries. Please consider its facilities completely at your service.

Write for a copy of our historical booklet "*New England—Old and New*".

OLD COLONY TRUST COMPANY
BOSTON

COFFEE MILLS

ARCADE

Glass hopper with screw cap. Cast iron body, enameled finish. Jelly glass receptacle.

No.	25
Capacity hopper, lbs.	1
Height over all, inch	17
Dozen in case	½
Net weight per dozen, lbs.	60
Shipping weight per case, lbs.	40
Per dozen	$24.00

Extra Glass Hoppers

Net weight per dozen, lbs.	15
Shipping weight per dozen, lbs.	23
Per dozen	$7.00

ROYAL FRUIT JAR

Fruit Jar Not Included

An ordinary Mason jar, either pint, one quart or two quart, may be used to hold the coffee.

Frame of mill fastened to wall with three screws. Lock nut adjustment. Metal parts black enamel.

No.	1 R
Height without jar, inch	8½
Dozen in case	1
Net weight dozen, lbs.	40
Shipping weight case, lbs.	52
Per dozen	$15.00

REGAL

Steel hopper. Chilled iron grinders. Black enameled finish. Tin cup receptacle. Adjusting screw and nut at top of handle.

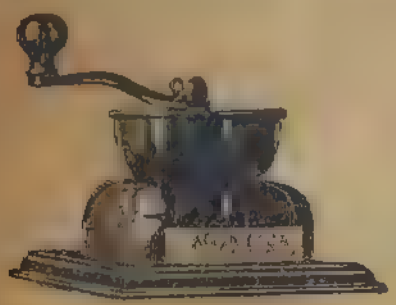
No.	44
Capacity hopper, lbs.	1
Height over all, inch	11
Dozen in case	½
Net weight per dozen, lbs.	27
Shipping weight per case, lbs.	22
Per dozen	$21.00

One dozen in a case.

ENTERPRISE

Cast iron. Grinds ⅔-pound per minute. Will also grind whole wheat flour.

No.	0
Height above table, inch	9½
Capacity of hopper, lbs.	¼
Dozen in case	1
Net weight each, lbs.	6½
Shipping weight per case, lbs.	110
Each	$4 00



MONITOR

Pressed steel, japanned. Steel can receptacle.

No.	204
Size of base, in.	6½x6½
Height, inch	4½
Ship wt doz, lbs.	17
Per dozen	$9.00

One dozen in a carton.

PARKERS EAGLE SIDE WALL

Sheet steel, japanned. Fastened to board. No. 90, hotel size, grinds one pound in two and one-half minutes.

Nos.	50	60	70
Board, inch	6x7½	7x9	7¼x10¼
Net wt doz, lb.	33	36	48
Ship wt cs, lb.	23	25	30
Per dozen	$15.00	17 00	20 00
Nos.	80	90	
Board, inch	9x12	11x14¼	
Net weight doz, lbs.	78	102	
Ship wt case, lbs.	49	70	
Per dozen	$32.00	52.00	

One-half dozen in case.

FAVORITE SIDE WALL

ARCADE

Cast iron, japanned. Dust proof hinged cover. Varnished hardwood back. Grinders adjusted to lock-nut.

Nos.	7	17	27
Size board, inch	6x8	6½x8½	6½x9½
Net weight per dozen, lbs.	30	32	42
Shipping weight per case, lbs.	19½	21	27
Per dozen	$11.10	13.10	15 30

One-half dozen in a case.

UNIVERSAL

Stamped steel japanned box, metal drawer, adjustable grinders, adjustable screw and nut at top of handle. Will pulverize or granulate.

No. 109

No.	109
Capacity, ozs	6
Height, inch	8
Dozen in case	¼
Shipping weight case, lbs	20
Per dozen	$21.00

No.	110
Capacity, ozs	10
Height, inch	10½
Dozen in case	¼
Shipping weight case, lbs	30
Per dozen	$30.00

No. 110

PARKERS BOX

Bronze cast iron top. Sliding drawer. Sunken hopper. Joints dovetailed.

No.	401
Size box, inch	5x5
Height box, inch	4¾
Dozen in case	½
Net weight dozen, lbs.	42
Shipping weight case, lbs.	27
Per dozen	$26.00

COFFEE MILLS

PARKERS BOX

Bronzed cast iron top with handle. Sliding drawer. Sunken hopper. Joints dovetailed.

No.	430
Size box, inch	4½x4½
Height box, inch.	11¼
Dozen in case	½
Net weight dozen, lbs.	42
Shipping weight case, lbs	28
Per dozen	$23 00

HOME BOX ARCADE

Box hardwood lock-jointed and varnished. Sunken cast hopper with sliding cover. Grinders adjusted by lock nut. Hopper capacity, 1 lb.

No.	767
Size box, inch	7x7x10½
Dozen in case	½
Net weight dozen, lbs.	56
Shipping weight case lbs	41
Per dozen	$37 50

PARKER

Steel hopper, japanned. Sliding drawer. Joints dovetailed.

No.	1170
Size of box, inch	4⅝x4⅝
Height box, inch	2¾
Dozen in case	½
Net weight dozen, lbs.	27
Shipping weight case, lbs	19
Per dozen	$11 00

RAPID GRINDING AND PULVERIZING

Grinders warranted equal to steel and perfectly adjusted, smooth running. Strong flat base. Two fly wheels. Finished in gold and vermilion.

Nos. 2 and 3 will pulverize and grind whole wheat flour, also granulate. Nos. 5 to 9, for granulating coffee.

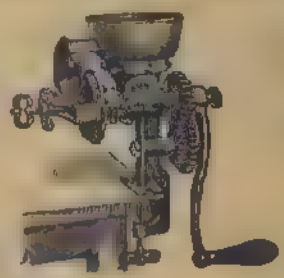
No. 2 grinds ⅜ pound; No. 3, ½ pound; No. 5, ¾ pound, and No. 7, one pound per minute with eighty revolutions. No. 9, one pound with 75 revolutions

Nos.	2	3	5	7	9
Height over all, inch	12½	15	17	21½	24
Size of base, inch	6x6½	8⅝x8½	9⅝x9⅝	11x10½	10x12
Diameter wheels, in	8¾	10¾	12½	17	19½
Capacity hopper, lbs	¼	½	¾	1¾	3
Case contains	3	3	1	1	1
Net weight each, lbs	15	22½	36	62	107
Ship wght case, lbs	70	105	56	70	146
Each	$9.00	13.00	18.00	25.00	38.50

CORONA CORN MILLS

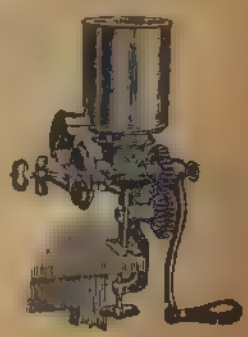
Grinds all sorts of grain, wet or dry, but is especially adapted for the grinding of soaked corn. For making peanut butter grinds bread crumbs and crackers. The Nos. 1 and 2 have plain gear, whereas the Nos. 3 and 4 are geared. The Nos. 1 and 3 have small hoppers, and the Nos. 2 and 4 have large hoppers.

No.	1
Diameter of cutting face, inch	3⅝
Height over all, inch	14
Diameter of hopper, inch	5¼
Length of crank, inch	10½
Shipping weight per case, lbs	76
Per dozen	$82 50



No.	3
Diameter of cutting face, inch	3⅝
Height over all, inch	14
Diameter of hopper, inch	5¼
Length of crank, inch	10½
Shipping weight per case, lbs	95
Per dozen	$97 50

No.	2
Diameter of cutting face, inch	3⅝
Height over all, inch	18½
Diameter of hopper, inch	5¼
Length of crank, inch	10½
Shipping weight per case, lbs	80
Per dozen	$90.00



No.	4
Diameter of cutting face, inch	3⅝
Height over all, inch	18½
Diameter of hopper, inch	5¼
Length of crank, inch	10½
Shipping weight per case, lbs	98
Per dozen	$112.50

Six in a case

DYNAMITE

NOTE—In ordering Dynamite always specify size of stick; ⅞x8 in. is generally used for hand drills and 1¼x8 in. is generally used for machine drilling.

DU PONT NITRO-GLYCERINE

Not Low Freezing. For Open Work. Resists Water Well.

⅞x8-in. and 1¼x8-in. Sticks.

Strength	25%	30%	33⅓%	40%	50%	60%
Per 100 lbs.	$					

Packed regularly 50 pounds in a box. See extra charge for 10 and 25 pound boxes.

DU PONT GELATINE

Not Low Freezing. For Close Work. Resists Water Well.

⅞x8-in. and 1¼x8-in. Sticks.

Strength	35%	40%	50%	60%	75%	80%	90%
Per 100 lbs.	$						

Packed regularly 50 pounds in a box. See extra charge for 10 and 25 pound boxes.

RED CROSS EXTRA

Low Freezing. For Close Work. Does NOT Resist Water.

⅞x8-in. and 1¼x8-in. Sticks.

Strength	20%	30%	33⅓%	40%	50%	60%
Per 100 lbs.	$					

Packed regularly 50 pounds in a box. See extra charge for 10 and 25 pound boxes.

BLACK BLASTING POWDER

Grains, No.	F	FF	FFF
Per Keg (25 pounds)	$		

STUMPING POWDERS

Low Freezing and Will Not Stand Water.

Du Pont 20% Strength—1⅛x8 in. Per lb, $.

Repauno—17% Strength, 1⅛x8 in. Per pound,

Fifty pounds in a box.

GREASE

MICA AXLE

1-lb. Tin Cans, 4 dozen in a Case. Weight per Case, 58 lbs. Per case, $5.25

1-lb. Tin Cans, 3 dozen in a Case. Weight per Case, 46 lbs. Per case, $4.25

3-lb. Tin Cans, 2 dozen in a Case. Weight per Case, 85 lbs. Per case, $7.00

10 lb. Tin Cans, 6 Cans in a Case. Weight per Case, 72 lbs. Per case, $5.50

10-lb. Pails Per pail, 1.50

25-lb Tubs Per tub, 2.50

ARCTIC CUP

Medium Hard

No. 3½—Capacity Cans	5-Lb.	10-Lb.
Per pound	$0.15	.15

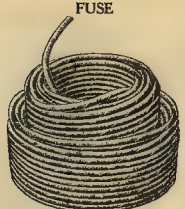
5-lb. cans, twelve in a case. 10-lb. cans as wanted.

PUTTY

Size Package	1-Lb. Carton.	5-Lb. Carton.	8-Lb. Carton.	85-Lb. Tin.
Number in case.	100	20	12	2
Per pound	$0.10	0.09	0.08	0.06

BLASTING SUPPLIES

FUSE



Cotton, Warranted Waterproof

Double Tape—Wt. per case, 121 lbs.....Per 1000 feet, $.....
Triple Tape—Wt. per case, 117 lbs..... " " " .....

Gutta Percha, Warranted Waterproof

Bear—Wt. per case, 120 lbs..... .....Per 1000 feet, $.....
Victor—Wt. per case, 121 lbs..... " " " .....

6000 feet in a case and 3000 feet in a half case

CONNECTING WIRE

No. 21—Copper, on 1 and 2 lb. spools ..... Per pound, $0.30

LEADING WIRE AND TAPE

Single Leading Wire—Copper, insulated. . Per foot, $0.02
Duplex Leading Wire—Copper, insulated... " " .03¼
Insulating Tape—¼-lb. packages. . . Each, 80

BLASTING BATTERIES

Push Down

Nos.	2	3	4	5
Capacity, caps	10	30	50	100
Gross weight, lbs.	30	30	50	68
Net weight, lbs.	15	25	46	53
Each	$17.50	25.00	37.50	90.00

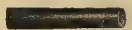
The maximum capacity indicates the number of electric blasting caps the blasting machines will fire when using two posts and two leading wires. When three posts and three leading wires are used, the maximum capacity is increased 50 per cent.

Nos. 2 and 5 are with two posts only.

No. 3 is two-post but can be furnished three-post.

No. 4 is three-post but can be furnished two-post when so ordered.

BLASTING CAPS



No.	6	8
Per 100	$.....	.....

One hundred in a tin box, 500, 1,000, 2,000, 3,000 or 5,000 in a case.

Prices on Insert.

EXPLODERS

DU PONT ELECTRIC

With No. 6 Caps

Length, Feet	4	6	8	10
Per 100	$			

Fifty in a box.

Can be furnished in lengths up to 20 feet.
Longer lengths made to order.

CAP CRIMPER

Blued Steel

No. 5—Length, 5½ in. Weight per dozen, 5 lbs.
..... Per dozen, $6.00
One-half dozen in a box.

POWDER HEATER OR THAWER

KELLY

No. 1—Size, 10x10x14 in. Holds 40 sticks of ⅞ in. dynamite ..... Each, $6.75

No. 2—Size, 10x14x16 in. Holds 72 sticks of ⅞ in. dynamite ..... Each, $8.25

The Kelly Powder Heater consists of a box of heavy galvanized steel lined with asbestos, a pan with a screw cap fitting in the bottom of this box, and over that a wire rack which holds the sticks of powder away from each other.

To use, remove the screw cap, fill pan with water, place on forge or fire until the water boils, screw the cap on, replace pan in bottom of box, fill wire rack with powder, set in box over pan, cover box, and in two hours or less every stick is evenly and safely heated WITHOUT DRAWING THE NITROGLYCERINE TO THE WRAPPER as is done in other methods This is the result of a perfectly even AND SLOWLY DECREASING heat. The asbestos insulation holds the heat 24 to 48 hours and it can never rise to the danger point. Powder heated in the Kelly Heater retains its original strength and is from 20 to 50 per cent more efficient than when heated by the ordinary methods.

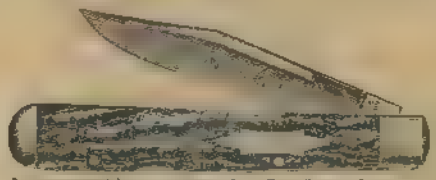
UNIVERSAL POCKET KNIVES

No. 02101½ 3⅜-inch Perfected Stag Handle. Large sheep foot and pen
Per dozen $9 00

No. 3[illegible] 3⅜-inch Ebony handles. Large Clip and pen blades, glazed finish. Iron lined steel bolsters.
Per dozen $9.00

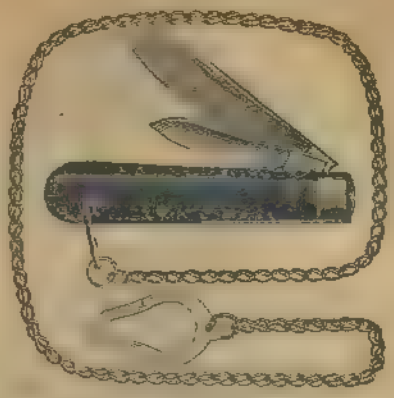
No. [illegible]—3⅜-inch Ebony handles. Large spear blade, glazed finish. Iron lined. Iron bolsters.
Per dozen $7.00

No. 31110—3½-inch Ebony Handle. Large sheep, high color. Iron lined. Iron bolsters.
Per dozen $7 00

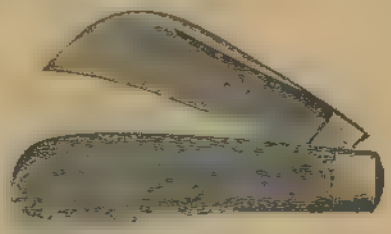


No. [illegible] 4-inch Perfected Stag Handle. Large clip blade, half polished. Brass lined. Lock back. Nickel silver bolsters, caps and shield.
Per dozen $27.00

No. 02021 4-in Perfected Stag Handle Two blades, one pruning and one budding, high color. Brass lined. Iron bolsters.
Per dozen $23.00

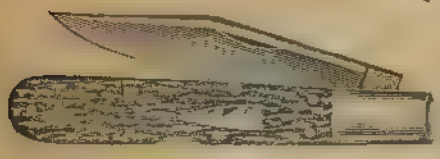


No. 22101C—3⅜-inch Cocobolo handles Large spear and pen blades, [illegible] ish. Iron lined, iron bolsters, [illegible] n.
Per dozen $11.00

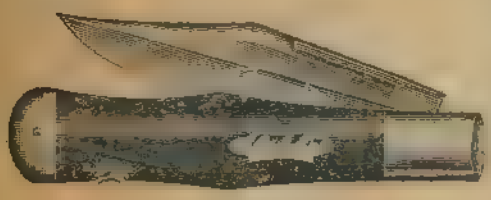


No. 2132—4-inch Cocobolo Handle. Pruning blade, glazed. Iron lined. Iron bolsters.
Per dozen $15.00

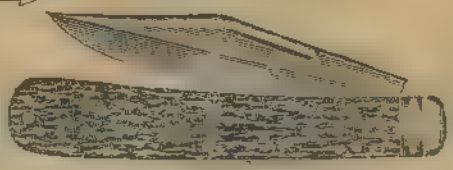
HUNTING KNIVES



No. 146—Lock back. Stag handle. One blade, half crocus polished. Nickel silver bolster. Brass lined. Length, 4½ inches.
Per dozen $32.00

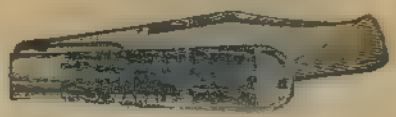


No. 128—Ebony handle. One heavy blade, glazed. Polished steel cap and bolster. Steel lined. Length, 5½ inches.
Per dozen $30 00



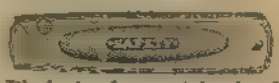
No. 147—Lock back. Stag handle. One blade, glazed. Steel bolster. Steel lined. Length, 4⅝ inches.
Per dozen $29.00

SAFETY FOLDING



Stag handle. Nickel silver bilt and bolster, with sheath.

Nos.	3	65
Length blade, inch	4½	5
Weight, ozs	[illegible]	6
Each	$3 50	4.00

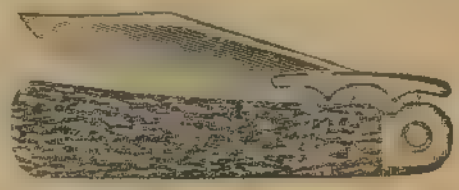


No. 78—Blade is sharp at back of point for ripping, and the back is a fish scaler. Length of blade, 4 inches. Weight, 3½ ozs.
Each $1 50

PRESS BUTTON

Stag handle. One blade, glazed. Nickel silver bolster. Steel lined.

Nos.	1000	510
Length, inch	4⅞	4
Per dozen	$30.00	28.00



No. 1005—Stag handle. One blade, glazed. Nickel silver bolster. Iron lined. Length, 4⅞ inches.
Per dozen $30.00

Average weight per dozen, 3 to 5 lbs. One-half dozen in a box.

HUNTING KNIVES

MARBLE
WOODCRAFT

Leather handle with sheath. An entirely new knife in design, containing all of the essential features necessary for sticking, skinning, cleaning and breaking bones.

No.	49
Length of blade, inch	4½
Weight, ozs	5
Each	$2.25

IDEAL, WITH HILT

Heavy forged steel, hand tempered blade, adapted to sticking and skinning. Leather handle, with colored hard fibre and brass washers. Aluminum tip. Each complete with leather sheath.

No. 45—Length of blade, inch	5	6	7
Weight, ozs	5	6½	8½
Each	$2.75	3.00	3.25

Same as No. 45. With stag handle and tip.

No. 46—Length of blade, inch	5	6
Weight, ozs	5	6½
Each	$3.50	3 75

IDEAL, WITHOUT HILT

Blades hand forged from razor steel, oval ground, stag handle with guard. Well made leather sheaths.

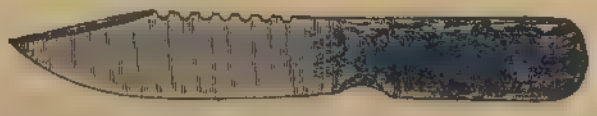
No. 42—Length of blade, inch	5	6	7
Weight per dozen, lbs	5	7	8
Each	$3.50	3.75	4.00

EXPERT

Leather handle, aluminum tip, complete with sheath. Particularly designed to meet requirements of professional hunters and trappers. The back of blade is designed for scraping skins while on the forms. Stag tip.

No.	545
Length of blade, inch	5
Weight, ozs	3½
Each	$2.50

DE WEESE PATTERN



Stag handle, with sheath. Has a dull saw back, on which the thumb is placed when skinning. When sticking the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

No.	62
Length of blade, inch	4
Weight, ozs	3
Each	$2.00

Five inch forged blade. Shaped ebony handle with three brass rivets. Without sheaths.

No.	175
Weight per dozen, lbs	3½
Per dozen	$21.00

SHEATHS FOR NO. 175

Weight per dozen, lb	1
Per dozen	$9.00

Ebony handles. Three large brass rivets. 4-inch blade; 7½ inches over all. Complete with leather sheath.

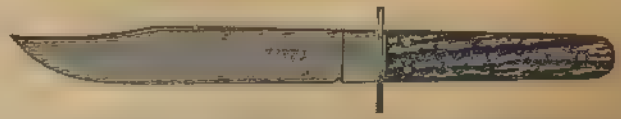
No.	740
Weight per dozen, lbs	1½
Per dozen	$14.00

MARBLE

Trout knife, with sheath. Made from finest forged cutlery steel. Handle, terminating in a ring one inch in diameter, is ⅛-inch thick.

No.	79
Length blade, inch	2
Weight, oz	1
Each	$0.75

UNIVERSAL



Forged polished crucible steel blades. Clip pattern, riveted stag handles, steel guards. Complete with leather sheaths.

No. 0020—Blade, inch	5	6	7
Weight per dozen, lbs	3	4	5
Per dozen	$32.00	34 00	36 00

WADE & BUTCHER

English forged steel blade. Extra fine, hollow ground. Fibre handle, brass trimmings and guard, leather sheath.

No. 1827—Length blade, inch	5	6
Weight per dozen, lbs	6	8
Per dozen	$48 00	60.00

All above, one-half dozen in a box.

Kelley-How-Thomson Co. of Duluth

INCANDESCENT ELECTRIC LAMPS

MAZDA LAMPS

Produces a pure white light which so closely resembles natural daylight that colors and shades can be accurately matched. The saving of Electric Current and its long life makes it a more economical lamp than the ordinary Carbon Lamp; it uses less current, produces more light and lasts longer than any other lamp. It is the most satisfactory lamp for Residences and Public Buildings.

Can be used on either Direct or Alternating Current, and burned any angle.

STRAIGHT SIDE (Mazda B Lamps)
110 to 125 Volts

Size of Lamp in Watts	Watts per Spherical C P	Type and Size Bulb	Diameter Bulb, In	Max Overall Length, In	Base Regularly Supplied	Standard Package Quantity	Weight Package, Lbs.	Clear Each	Frosted Each
10	1 67	S-17	2⅛	4⅝	Medium Screw	100	22	$0 35	$0 38
15	1 47	S-17	2⅛	4⅝	Medium Screw	100	22	.35	.38
25	1 37	S-20	2⅝	5¼	Medium Screw	100	27	.35	.38
40	1 33	S-19	2⅜	5¼	Medium Screw	100	27	.35	.38
50	1 32	S-19	2⅜	5¼	Medium Screw	100	27	.35	.38
60	1 29	S-21	2⅝	5¾	Medium Screw	100	27	.35	.38
100	1 24	S-30	3⅝	7⅛	Med. Sc., Skirted	24	23	.85	.92

STRAIGHT SIDE (Mazda B Lamps)
220 to 250 Volts

25	1 65	S-19	2⅜	5¼	Medium Screw	100	27	$0 40	$0 43
50	1 49	S-19	2⅜	5¼	Medium Screw	100	27	.40	.43
100	1 39	S-30	3⅝	7⅛	Med. Sc., Skirted	24	23	1 65	1 70
150	1 33	S-35	4⅜	8¼	Med. Sc., Skirted	24	24	1 50	1 60
250	1 20	S-40	5	10	Med. Sc., Skirted	12	24	2 50	2 65

PEAR-SHAPE (Mazda C Lamps)
110 to 125 Volts

75	1 00	PS-22	2¾	6⅛	Medium Screw	50	28	$0 70	$0 75
100	1 00	PS-25	3⅛	7⅛	Medium Screw	24	21	1 10	1 15
150	0 92	PS-25	3⅛	7⅛	Medium Screw	24	22	1 65	1 70
200	0 86	PS-30	3¾	8⅝	Medium Screw	24	23	2 20	2 27
300	0 78	PS-35	4⅜	9¾	Mogul Screw	24	26	2 53	3 25
400	0 82	PS-40	5	10	Mogul Screw	12	20	3 80	4 45
500	0 78	PS-40	5	10	Mogul Screw	12	20	4 20	4 85
750	0 74	PS-52	6½	13⅝	Mogul Screw	8	20	6 50	6 75
1000	0 70	PS-52	6½	13⅝	Mogul Screw	8	20	7 50	7 75

PEAR-SHAPE (Mazda C Lamps)
220 to 250 Volts

200	1 00	PS-30	3¾	8⅝	Medium Screw	24	23	$2 40	$2 47
300	0 92	PS-35	4⅜	9¾	Mogul Screw	24	25	3 90	4 00
400	0 86	PS-40	5	10	Mogul Screw	12	20	5 10	5 25
500	0 85	PS-40	5	10	Mogul Screw	12	20	5 80	5 95
750	0 82	PS-52	6½	13⅝	Mogul Screw	8	20	7 70	7 95
1000	0 78	PS-52	6½	13⅝	Mogul Screw	8	20	9 00	9 25

DAYLIGHT (Mazda C-2 Lamps)
110 to 125 Volts

75		PS-22	2¾	6⅛	Medium Screw	50	28	$0 80	$0 90
100		PS-25	3⅛	7⅛	Medium Screw	24	21	1 25	1 35
150		PS-25	3⅛	7⅛	Medium Screw	24	21	1 90	2 00
200		PS-30	3¾	8⅝	Medium Screw	24	24	2 50	2 64
300		PS-35	4⅜	9¾	Mogul Screw	24	26	3 75	3 95

FARM LIGHTING OUTFIT
16-Cell 28 to 32 Volts Straight Side (Mazda B Lamp)

5	1 44	S-14	1¾	4	Medium Screw	100	18	$0 35	$0 38
10	1 37	S-17	2⅛	4⅝	Medium Screw	100	22	35	38
20	1 29	S-17	2⅛	4⅝	Medium Screw	100	22	35	38
40	1 24	S-19	2⅜	5¼	Medium Screw	100	22	35	38

FARM LIGHTING OUTFIT
16 Cell 28 to 32 Volts, Pear-Shape (Mazda C Lamp)

50	0 90	PS-20	2½	5½	Medium Screw	50	18	$0 70	$0 75
75	0 85	PS-22	2¾	6⅛	Medium Screw	50	18	80	85
100	0 80	PS-25	3⅛	7⅛	Medium Screw	24	21	1 20	1 25

Note—In Ordering Lamps, be Sure to Specify Exact Voltage and Wattage, and Type of Lamp Wanted.

INCANDESCENT ELECTRIC LAMPS

CARBON LAMPS

Volts	Size of Lamp in Watts	Approx. C. P.	Efficiency W. P. C.	Style and Size Bulb	Diameter Bulb, In.	Length, Over all In.	Base Regularly Supplied	Standard Package Quantity	Weight Std. Pkg., Lbs.	Clear, Each	Frosted, Each
STRAIGHT SIDE—REGULAR											
105 to 125	20	4	4 15	S-17	2 1/8	4 1/2	Medium Screw	250	35	$0.22	$0 25
	30	8	3 23	S-17	2 1/8	4 1/2	Medium Screw	250	35	.22	25
	50	16	2 95	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	25
	60	20	2 97	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
220 to 250	35	8	4 40	P-19	2 3/8	4 3/8	Medium Screw	250	35	24	.27
	60	16	3 69	P-21	2 7/8	5	Medium Screw	250	35	.24	.27
STRAIGHT SIDE—STREET RAILWAY SERIES											
105	64	..	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	$0.22	$0 25
110	64	..	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
115	64	.	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
120	64	..	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
125	64	..	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
130	64	..	4 0	S-19	2 3/8	5 1/8	Medium Screw	250	35	.22	.25
STRAIGHT SIDE—S-24 BULB											
105 to 125	100	32	2.97	S-24	3	5 3/4	Medium Screw	100	34	$0 30	$0 35
220 to 250	120	32	3 7	S-24	3	5 3/4	Medium Screw	100	34	35	.40
	120	32	3 7	S-24	3	5 3/4	Medium Screw	100	34	35	40
	120	32	3 7	S-24	3	5 3/4	Medium Screw	100	34	35	40
TUBULAR											
105 to 125	30	8	3 6	T-10	1 1/4	3 1/4	Medium Screw	200	51	$0 35	0$ 40
	60	16	3.0	T-10	1 1/4	3 3/4	Medium Screw	200	51	.35	40
	120	32	3 1	T-14	1 3/4	5 1/8	Medium Screw	100	27	.60	64
220 to 250	60	16	3 75	T-10	1 1/4	3 1/4	Medium Screw	200	51	.45	.50

In Ordering Lamps be sure and Specify Exact Voltage and Wattage; Also Style of Bulb and Base

Our Prices on Carbon Lamps are subject to change without notice. Orders are accepted on this basis, and the Lamps will be billed at our scheduled prices in effect at the time shipment of order is made.

REMINGTON U. M. C. SHOTGUNS

AUTO LOADING

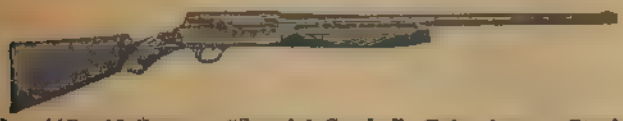
TAKE DOWN. SOLID BREECH

No. 11A—12 Gauge. "Standard Grade." Take down. 28-inch steel barrel. Full or modified choke. Five shot. Pistol grip. Walnut stock. Length, 14⅜ inches; drop, 2½ inches at heel, 1⅝ inches at comb. Weight each, about 7¾ lbs.
Each $75.50

No. 11AR—12 Gauge. Same as No. 11A, with solid matted ribbed barrel. Full or modified choke.
Each $86 83

No. 11AX—12 Gauge. "Standard Grade." With extra 26-inch cylinder bore barrel. Otherwise same as No. 11A.
Each $106.30

No. 11B—12 Gauge. "Riot Grade." Take down. 20-inch cylinder bore steel barrel. Otherwise same as No. 11A. These guns are used by the U. S. Government in the constabulary force of the Philippine Islands; also by prison guards, express messengers and at banks.
Each $75.50



No. 11B—12 Gauge. "Special Grade." Take down. Stock half pistol grip and forearm of selected English walnut, neatly checkered. Otherwise same as No. 11A.
Each $92.03

No. 11BR—12 Gauge. Same as No. 11B, with solid matted ribbed barrel.
Each $103 36

No. 11C—12 Gauge. "Trap Grade." Take down. 28-inch steel barrel. Five shot. Selected English walnut stock and forearm neatly checkered. Straight grip. Stock, 14¼ inches long; drop at heel, 2¼ inches; drop at comb, 1½ inches. Weight each, about 7¾ lbs.
Each $92.03

No. 11CR—12 Gauge. Same as No. 11C, with solid matted ribbed barrel.
Each $103.30

No. 11D—12 Gauge. "Tournament Grade." Five shot. Take down. 28 and 26-inch steel barrel. Any desired choke. Stock and forearm are of specially selected English walnut delicately hand checkered. The receiver and barrel are finished with a rich scroll hand engraving. All working parts are hand polished. Pistol grip stock, 14 inches in length; drop, 2½ inches at heel, 1⅝ inches at comb. Weight each, about 7¾ lbs.
Each $145.50

No. 11DR—12 Gauge. Same as No. 11D, with solid matted ribbed barrel.
Each $156.85

Remington automatic shotguns made in 12 gauge only.

PUMP ACTION REPEATING

SOLID BREECH. HAMMERLESS. TAKE DOWN

No. 10A—12 Gauge. "Standard Grade." Take down. Six shot. 30-inch fluid steel barrel, full choke. Blued finish. Half pistol grip stock and forearm of walnut, regular dimensions 13¾ inches long, drop at heel, 2¾ inches, drop at comb, 1⅝ inches. Full or modified choke. Weight each, about 7½ lbs.
Each $60.92

No. 10AR—12 Gauge. Same as No. 10A, with solid matted ribbed barrel. Full or modified choke.
Each $72.25

No. 10R—12 Gauge. "Riot Grade." Take down. 20-inch cylinder bore steel barrel, otherwise same as No. 10A. This gun is used in a number of state prisons and also by express messengers and watchmen.
Each $60.92

No. 10S—12 Gauge. "Trap Special Grade." Take down. Six shot. 30-inch fluid steel barrel, full choke. Blued finish. Straight grip. This grade differs from "No. 10C Trap" in that the stock and forearm are American walnut, the stock being furnished in but one dimension, which is 14 inches in length, drop, 2 inches at heel and 1½ inches at comb. The top surface of barrel is matted the entire length, to prevent the reflection of light. Weight each, about 7½ lbs.
Each $72.59

No. 10SR—12 Gauge. Same as No. 10S Trap Special, with solid matted ribbed barrel.
Each $83.92

No. 10B—12 Gauge. "Special Grade." Take down. Same as 10A, with the exception that stock and forearm are of selected English walnut, half pistol grip and neatly checkered.
Each $83 25

No. 10BR—12 Gauge. Same as No. 10B, with solid matted ribbed barrel.
Each $94 58

No. 10C—12 Gauge. "Trap Grade." Take down. Six shot. 30-inch fluid steel barrel. Full choke. Straight grip; stock and forearm are of selected English walnut and are neatly checkered. Weight each, about 7½ lbs.
Each $83.25

No. 10CR—12 Gauge. Same as No. 10C Trap, with solid matted ribbed barrel.
Each $94.58

SOLID BREECH. HAMMERLESS. TAKE DOWN

No. 17—20 Gauge. Six shot, 28-inch barrel. Barrel chambered for 2¾-inch shells. Stock and forearm of walnut. Length of stock, 13¾ inches. Weight, about 5½ lbs.
Each $60 92

REMINGTON U. M. C. RIFLES

MODEL 30, HIGH POWER BOLT ACTION

Bolt and action are the same design as used in the model 1917 army rifle. Special high pressure steel barrel 24 inches long, tapered. Half pistol grip. American walnut stock. New design forged steel butt-plate. Thumb operated safety; new model sporting rear peep sight. Kerr adjustable service type sling strap. Chambered for 30 calibre Springfield model 1906 cartridge. Magazine holds five cartridges. Weight, 8 lbs.

Model 30—30 calibre.....Each $65.00

AUTO LOADING
TAKE DOWN

22-inch barrel, straight grip, 5 shot. Weight each, 7¾ lbs.

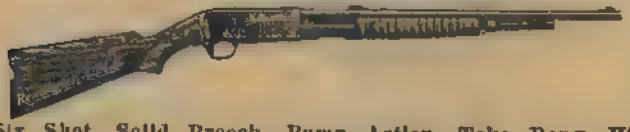
Chambered to shoot a special rimless autoloading cartridge. Box magazine which can be loaded by using a clip containing 5 cartridges or by inserting one at a time. Heavy solid breech. Trigger pull is extra light from 1½ to 3 lbs. The balanced trigger prevents the gun from jarring off should it be accidentally dropped. The rapidity of fire is only limited by the speed the shooter can pull and release the trigger, but pulling the trigger once only fires one shot, and must be released again for each successive shot.

Shoots Remington Autoloading Cartridges

No. 8A25—25 calibre	Each	$73 27
No. 8A30—30 calibre	"	73 27
No. 8A32—32 calibre	"	73 27
No. 8A35—35 calibre	"	73.27
Extra clips	"	.15

All other calibres, lengths and finishes from factory only

REPEATING HIGH POWER
PUMP ACTION. SOLID BREECH



A Six Shot, Solid Breech, Pump Action, Take Down High Power Rifle

A rifle having a solid wall of steel which lies between the firing chamber and the shooter's face. This affords absolute protection against injury to the shooter. Barrel of 22-inch special ordnance steel, half pistol grip stock of American walnut fitted with shotgun style rubber butt plate. Patented quick adjustable No. 1 buckhorn rear sight and copper bead front sight. The only high power rifle that can be cleaned from the breech preventing powder residue, or other foreign substances from entering the breech block. Weight 6¾ lbs., each.

Shoots Remington Autoloading Cartridges

No. 14A25—25 calibre	Each	$58.36
No. 14A30—30 calibre	"	58 36
No. 14A32—32 calibre	"	58 36
No. 14A35—35 calibre	"	58.36
No. 14R25—Carbine—25 calibre. Length of barrel 18½ inches	"	57 25
No. 14R30—Carbine—30 calibre. As No. 14R25	"	57 25

Shoots 38-40 Remington and 44 Remington Center Fire Cartridges

No. 14½A—Remington. Steel round barrel, 22½ inches long. Capacity, 11 shots. Weight each, about 7 lbs.

Each $58.36

CARBINE

Shoots 38-40 Remington and 44 Remington Center Fire Cartridges

No. 14½R—Remington. Steel round barrel 18½ inches long. Capacity, 9 shots. Weight, each, about 6½ lbs.

Each $57.25

N. R. A. TARGET GRADE

No. 12C—N. R. A. Target Grade. Chambered for 22 long rifle cartridges. Magazine holds 11 cartridges, 24-inch octagon barrel, half pistol grip walnut stock. Sights: rear, elevating tang peep with cup disc; front wind gauge. Combination aperture and globe. Weight, 5½ lbs.

Each $45.80

AUTO LOADING
GRADE 16A

Shoots 16-22 Cartridges Without Reloading

Combines the self loading principle in its highest development, rapidity of fire, strength and simplicity, with general attractiveness.

No. 16A22—Standard—22 calibre. Shoots 22 Remington Autoloading rim fire cartridges. 22-inch steel barrel. Straight grip stock of American walnut fitted with steel rifle butt plate. Adjustable straight bar rear sight and white metal bead front sight. Weight, 5¾ lbs.

Each $44.61

REPEATING
22 CALIBRE

No. 12C—Target. Chambered to take without any adjustment .22 short, long and long rifle cartridges. Magazine holds 15 short, 12 long or 11 long rifle cartridges. 24 inch octagon steel barrel. Straight grip. Walnut stock, fitted with steel rifle butt plate. Weight, each, 5½ lbs.

Each $51 95

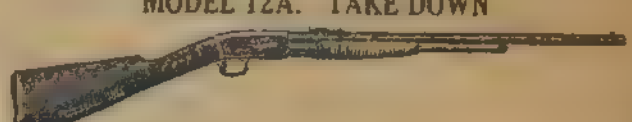
No. 12CS—Remington Special. Adapted to shoot 22 W. R. F. cartridges. Magazine holds nine cartridges. Otherwise same style as No. 12C rifle.

Each $31 95

No. 12B—Gallery Special. Same as No. 12C, with pistol grip and chambered to shoot .22 short only.

Each $31 95

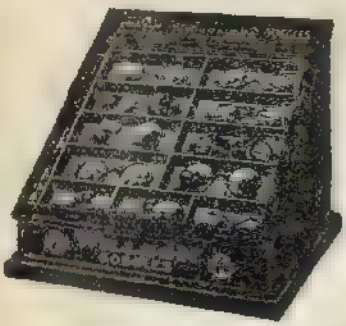
MODEL 12A. TAKE DOWN



No. 12A—Standard—22 calibre. Solid breech. Hammerless. Chambered to take without any adjustment .22 short, long and long rifle cartridges. Magazine holds 14 .22 short, 11 22 long or 10 long rifle cartridges. 22-inch round barrel. Straight grip. Walnut stock fitted with rubber butt plate. Weight, each, 4½ lbs.

Each $28.48

WILLSON GOGGLES AND SPECTACLES



ASSORTMENT No. 1

Complete Assortment of Goggles for Sun, Dust, Glare, Wind, Etc. Glass Top, Mahogony-finish Display Case. Consists of 11 Standard Styles, Ranging in Retail Price From 50 Cents to $2 00 Per Pair.

6 Pairs No 2594	3 Pairs No. A1	2 Pairs No. ZF1W
2 Pairs No. Z8594	2 Pairs No. K1	2 Pairs No. Z5
4 Pairs No U. S.	2 Pairs No. Z21W	2 Pairs No. ZD9659
3 Pairs No. K7	2 Pairs No. Z1W	

Each

No. 1—Weight, Per Case, About 28 Pounds.... **$27.90**

ALBEX EYE PROTECTOR

White Metal, Rust Proof Frame, 1¼ In Lenses Soft Leather Side Guards, Flexible Cable Earbows, Adjustable Willson Bridge.

Per Dozen

No. A1—One Pair in a Handsome Steel Case.. **$14.80**

ZYLBEX EYE PROTECTOR

Rigid Imitation Tortoise Shell Frame, Leather Sideguards, Ventilated, Flexible Cable Earbows, 1¼ In. Lenses.

Per Dozen

No. Z1W—One Pair in a Handsome Metal Case,..... **$14.80**

IMITATION TORTOISE SHELL GOGGLE

Neat and Light in Weight 1¼ In Lenses. Imitation Tortoise Shell Ventilated Side Guards

Per Dozen

No. K1—One Pair in a Handsome Snap Lid Steel Case..... **$14.80**

ZYLBEX PROTECTION GLASS

Imitation Tortoise Shell Frame, Rustproof Flexible Cable Earbows, 3¼ In. Lenses.

Per Dozen

No. Z21W—One Pair in a Neat Cardboard Box **$10.70**

ZYLBEX SELF-ADJUSTING GOGGLE

Flexible Pure Silk Tape Bridge, Adjusts Self to Any Shape Face Imitation Tortoise Shell Rims. Leather Sideguards. Ventilated, Flexible Cable Earbows.

Per Dozen

No. ZF1W—One Pair in a Handsome Steel Case **$19.80**

UNIVERSAL GOGGLE

Rustproof White Metal Frame, Wire-screen Sideguards, Flexible Cable Earbows, 1¼ In Lenses.

Per Dozen

N. US—One Pair in a Handsome Steel Case .. **$9.90**

IMITATION TORTOISE SHELL SPECTACLE

Very Neat, Excellent Finish, 1¼ In. Lenses.

Per Dozen

No. K7—One Pair in a Neat Cardboard Box .. **$9.96**

STAR GOGGLE

Rustproof White Metal Frame, Wire-screen Sideguards, Flexible Cable Earbows, 1¼ In. Lenses.

Per Dozen

No. S1—One Pair in a Neat Cardboard Box **$6.05**

Specify Amber, Pinenal, Smoked or Clear Lenses

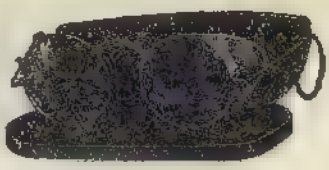
WILLSON SPECTACLES

EYE PROTECTOR SPECTACLE

Rustproof White Metal Frame, Flexible Cable Earbows, 1¼ In. Lenses.

Per Dozen

No. 2584—One Dozen Pairs in a Box. **$3.30**



EYE PROTECTOR SPECTACLE

Metal Frame, Adjustable Bridge, Wire-screen Side Guards, Flexible Cable Earbows, Ground and Polished, Clear Flat Lenses or Amber, Smoke or Clear Curved Lenses.

Per Dozen

No. M1—One Pair in a Handsome Steel Case.. **$17.60**

COMFORT GLASSES

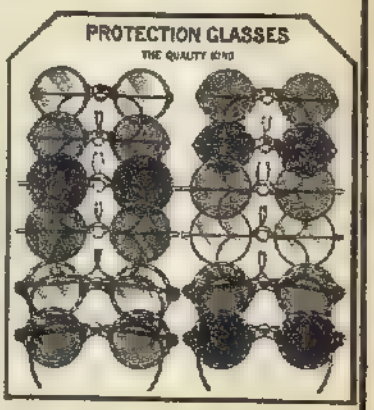
Imitation Shell Frames and Earbows, Assorted Shades of Amber.

Per Dozen Cards

No. 24—One Dozen Pairs on a Card **$24.00**

PROTECTION GLASSES

Full Assortment of Low Priced Goggles, Including Metal and Imitation Shell Frames, With Amber, Fieuzal and Smoked Lenses.



Per Dozen Cards

No. 5025—One Dozen Pairs on a Card **$20.28**

Specify amber, fieuzal, smoked or clear lenses.

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

Two New WEAVER Items

The men who know the problems of automobile and garage service have appreciated what WEAVER inventions have meant during the last eight years.

The hours of time, the amount of human energy, and the many dollars in cash which WEAVER accessories have saved, tell their own story of WEAVER'S service to the trade.

And now, to add the next chapter to the interesting history, come two new WEAVER products—each based on a new idea of convenience to automobile men—each with the definite purpose of making a mean job easy. And, like all the other members of the WEAVER family, both the WEAVER WIRE WHEEL REPAIR STAND and the WEAVER UNIVERSAL AXLE STAND earn dollars for garage men by turning out better work in the minimum of time.

To Start Our Biggest Year

The WEAVER WIRE WHEEL REPAIR STAND fills that need which garage men have always felt for a substantial, single-unit device on which the aligning, truing and repairing of wire wheels can be performed in the easiest and most efficient manner.

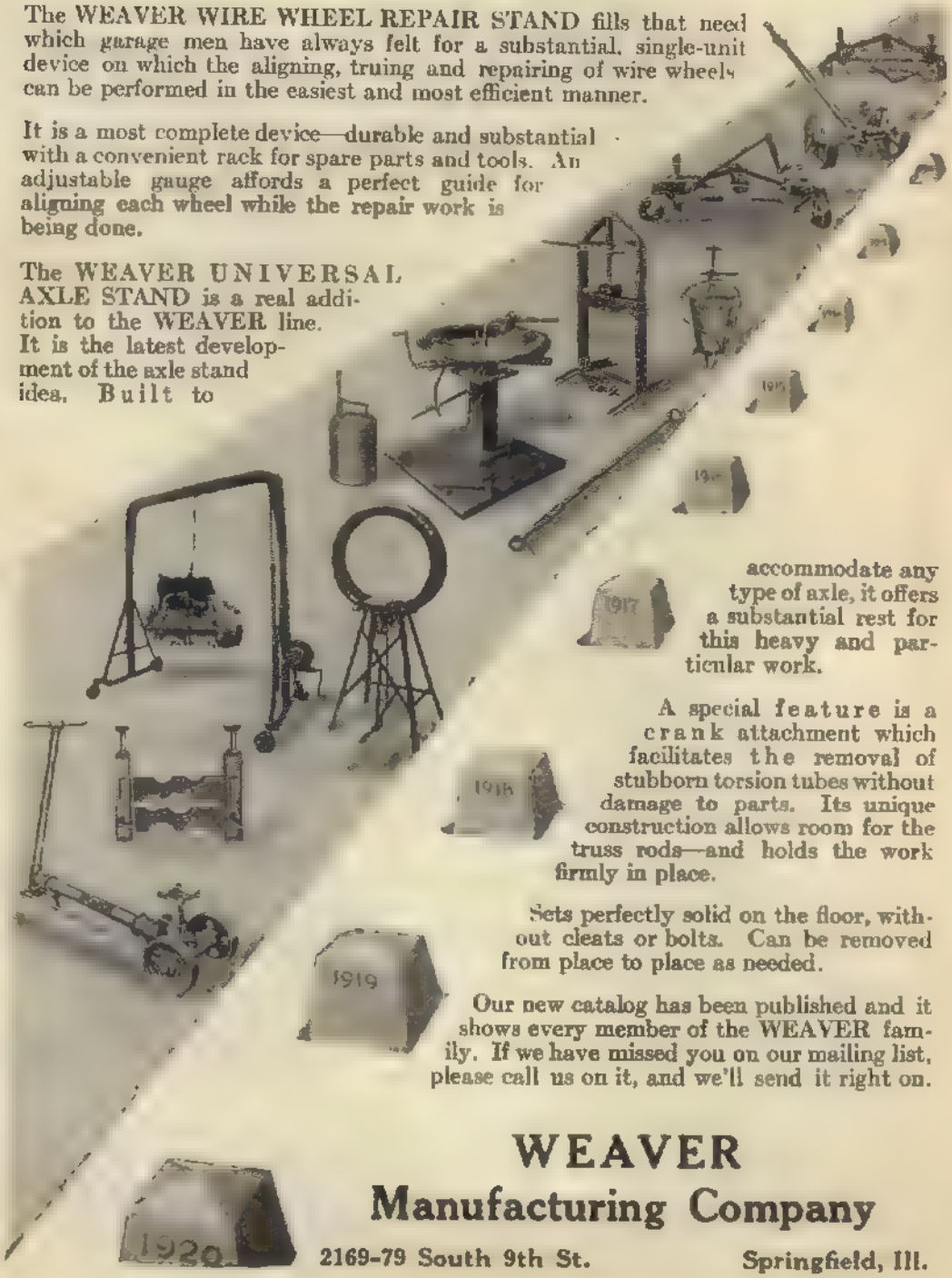
It is a most complete device—durable and substantial with a convenient rack for spare parts and tools. An adjustable gauge affords a perfect guide for aligning each wheel while the repair work is being done.

The WEAVER UNIVERSAL AXLE STAND is a real addition to the WEAVER line. It is the latest development of the axle stand idea. Built to accommodate any type of axle, it offers a substantial rest for this heavy and particular work.

A special feature is a crank attachment which facilitates the removal of stubborn torsion tubes without damage to parts. Its unique construction allows room for the truss rods—and holds the work firmly in place.

Sets perfectly solid on the floor, without cleats or bolts. Can be removed from place to place as needed.

Our new catalog has been published and it shows every member of the WEAVER family. If we have missed you on our mailing list, please call us on it, and we'll send it right on.



WEAVER
Manufacturing Company

2169-79 South 9th St. Springfield, Ill.

CHAMPION SPARK PLUGS

Champion Spark Plugs are guaranteed to give absolute satisfaction to the user, or full repair or replacement will be made.

Conical 2-piece ⅛-in Hex

For Studebaker cars previous to 1920, and trucks, tractors, farm and stationary engines using a ½-inch plug.

No. A13—½-inch

Each $0.90

Petticoat 2-piece ⅛-in Hex

Equipment on Fordson tractors.

No. A24—¼-inch long

Each $0.75

Conical 2-piece ⅛-in Hex

For Chevrolet, Oakland, Olds 6, Scripps-Booth passenger cars, Elgin and other tractors, and stationary and marine engines using a ⅞-inch long plug.

No. A53—⅞-in long

Each $0.90

Petticoat 2-piece ⅛-in Hex

For use on commercial cars and tractors when a standard ½-inch plug is necessary.

No. A14—½-inch

Each $0.90

Specially recommended to meet the requirements of the Oakland motor.

No. A14-0—½-inch

Each $0.90

For tractors, farm, marine and stationary engines requiring an extra long plug.

No. A34—½-in ex. long

Each $0.90

Conical 2-piece ⅛-in Hex

For Elcar, Elgin, Grant, Lexington, Metz, Studebaker passenger cars, Autocar, Bethlehem, Kleiber trucks, also on tractors and engines using a ⅞-inch plug.

No. A43—⅞-inch

Each $0.90

For motorcycles using metric thread.

No. A63—Metric

Each $0.90

Petticoat 2-piece ⅛-in Hex

For States and Willys 6 cars, also Dodge and Maxwell cars and trucks.

No. A44—⅞-inch .....**Each $0.90**

For Essex and Rolls Royce cars, White trucks and farm, marine and stationary engines with metric threads.

No. A64—Metric .....**Each $0.90**

Conical 2-piece 1⅛-in Hex (Heavy Duty)

For Buick cars.

No. AA58—⅞-inch long.

Each $0.90

Conical 2-piece Heavy Stone 1⅛-inch Hex (Heavy Duty).

Specially adapted for heavy truck, tractor and engine work.

No. B13—½-inch

Each $1.00

For use in Dorris, Fiat, MacFarlan, Overland 6, Pathfinder, Willys-Knight and Winton passenger cars, Acason, Atterbury, Bethlehem, Garford, Kissel, Mack and many other trucks and tractors using ⅞-inch.

No. B43—⅞-inch .....**Each $1.00**

For use in Dorris cars and trucks.

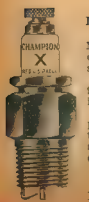
No. B53—⅞-inch long.....**Each $1.00**

For all motors using ¾-inch plugs.

No. B73—¾-inch .....**Each $1.00**

For all motors using ⅞-in long plugs.

No. B83—⅞-inch long .....**Each $1.00**



Champion X

Petticoat 2-piece ⅛-in Hex

Adopted by the Ford Motor Co. as standard equipment on Ford cars since 1911.

Following is quoted from the instruction book in each Ford car:

Ford engines are equipped with this plug when they leave the factory and are best adapted to the requirements of our motor.

No. A15—½-inch

Each $0.75

Petticoat 2-piece 1⅛-inch Hex (Heavy Duty)

For Dodge trucks.

No. AB44—⅞-inch

Each $0.90

CHAMPION SPARK PLUGS

Champion Spark Plugs are guaranteed to give absolute satisfaction to the user, or full repair or replacement will be made.

Petticoat 2-piece ½-in Hex

Priming plug. Will start motor on first quarter turn. Brings gasoline right to the sparking point.

No. H14—⅛-inch
Each $1.25
No. H44—⅜-inch
Each $1.25
No. H64—Metric
Each $1.25

Conical 1-piece 1⅛-in Hex (Heavy Duty)

For use in Briscoe, Cadillac, Chalmers, Cole, Haynes, Jackson, King, Moon, Olds 8 and Packard passenger cars and trucks, Holt tractors and stationary farm and marine engines using a ⅞-in heavy duty plug.

No. JAS48—⅞-inch
Each $0.90

For use in Jordan, Kissel Kar and Nash passenger cars, and in trucks and tractors using a ⅞-inch long plug.

No. JA53—⅞-inch long.....Each $0.90

Conical 1-piece ½-inch Hex

For use in Overland truck, Moline tractor and in stationary engines using a ½-inch 1-piece plug.

No. J13—½-inch
Each $0.90

For use in all motors using a ½-inch long 1-piece plug.

No. J23—½-inch long
Each $0.90

Conical 1-piece ⅞-inch Hex

For use in Apperson, Crow-Elkhart, Mercer, Premier, Stearns-Knight, Stutz, Templar passenger cars, Indiana and other trucks using ⅞-inch 1-piece plugs.

No. J43—⅞-inch .....Each $0.90

For use in Franklin, Nash and National cars.

No. J53—⅞-inch long.....Each $0.90

Conical 1-piece 1⅛-inch Hex (Heavy Duty)

For use in Dort, Hudson, Hup, Saxon cars, Federal, G. M. C., Moreland and Vim trucks, and all other cars and trucks taking a ⅞-inch plug of this type.

No. JA43—⅞-inch
Each $0.90

Conical 1-piece 1⅛-inch Hex (Heavy Duty)

For use in Auburn, Case, Chandler, Locomobile, Mitchell, Paige, Detroit, Peerless, Pierce-Arrow, Stevens-Duryea, Velie, Westcott and White cars, Gramm, Nash and Paige trucks.

No. JB43—⅞-inch
Each $0.90

Conical 1-piece 1-inch Hex

For use in Rolls Royce cars, and on motorcycles and farm, stationary and lighting engines using metric plugs.

No. J63—Metric
Each $0.90

PORCELAINS

A103	A104	A105	B103

Porcelain	For Type	Each
A103	A13, A43	$0.45
A104	A14, A14-0, A44, A64	.60
A105	A15	.40
A304	A34	.45
A603	A63, A53	.60
B103	B13, B43, B73	.50
H104	H14, H44	.45

MINUTE SPARK PLUG CLEANER

The quick and easy way to clean spark plugs.

Simply fill glass tube half full of gasoline—screw the plug into bushing at the top and shake vigorously.

The needles within the tube pick the carbon from the porcelain while the gasoline dissolves the oil.

The Champion Minute Spark Plug Cleaner comes in a neat box which fits nicely into any tool case.

Each $0 75

SPARK PLUG BRUSHES

An excellent wire and bristle brush with two flat steels for cleaning parts not accessible with brush.

No. .....S.P.B.
Weight per dozen, lb... ¾
Per dozen $2.00

One in a box.

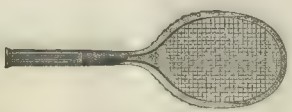
SPARK PLUG WRENCH

No. 25—Malleable Iron..Per dozen $3.00

Loose.

Note.—⅞-18 Long and ⅞-18 Long Heavy Duty made especially for Buick cars.

LAWN TENNIS RACKETS

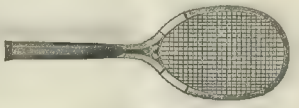


WILSHIRE

Each

No. 550—Selected Second Growth White Ash Frame, White Holly Throat Reinforced with Black Walnut; Strung with the Best Oriental Gut, Extra Close in the Center; 5 to 5½ in. Handles. $7 50

One in a Paper Envelope, Shipping Weight about 1 Lb.

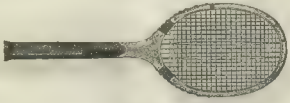


BEEKMAN

Each

No. 600—Second Growth White Ash Frame; Low Cut Walnut Throat, Reinforced with Oak, Shoulders Wound with Parchment and Strands of Gut, Strung with Best American Gut; 5 to 5¾ in. Handles. $8 00

One in a Paper Bag; Shipping Weight about 1 Lb.

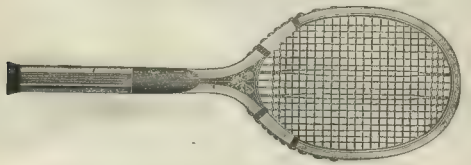


PERFECTION

Each

No. 800—Selected Second Growth White Ash Frame, Headed on the Inside, giving it a perfect balance; Low Cut Split Sycamore Center; Heavily Reinforced with Oak and Gut-wound Shoulders; Wide Playing Surface at the Throat, Strung with the Highest Grade Gut obtainable $10 00

One in a Paper Bag; Shipping Weight about 1 Lb.



BUCKINGHAM

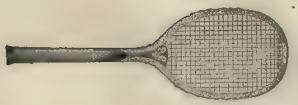
One of the latest English Rackets, made of Selected Second Growth White Ash, Low Cut White Holly Center; Reinforced on the Inside and Outside with Compressed Black Fibre, Shoulders Wound with Gut, Four-Piece Cedar Handle, Strung with the Best Tournament Gut.

Each

No. 1000—Weights 13 to 15 Ounces; Handles 5 in. to 5¾ in. $10 00

One in Paper Bag; Shipping Weight about 1 lb.

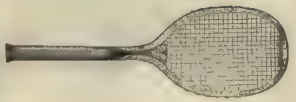
LAWN TENNIS RACKETS



BOYS AND GIRLS

Each

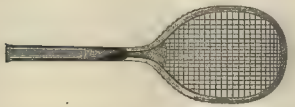
No. 100—A Trifle Under-size; Frame of Good Ash; Strung with Good Oriental Gut..... $1 50



HARVARD

Each

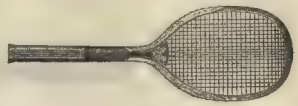
No. 150—Full Size; Strong Frame of Selected Ash, with Mahogany Throat; Strung with Good Oriental Gut.. ..... $2.00



BRYN MAWR

Each

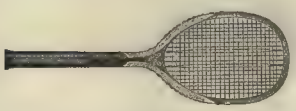
No. 200—Full Size; Improved Model Racket of Selected Ash, Reinforced at the Shoulders; Strung with Good Grade Oriental Gut $2.75



REX

Each

No. 250—Full Size; Made of Selected Growth White Ash, Beveled Bow, Black Walnut Throat, Heavily Reinforced with Oak; Good Quality Gut; Double Stringing in the Center. . . . $3 00



HARTFORD

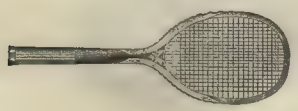
Each

No. 300—Low Cut, Black Walnut Throat, Shoulders Reinforced with Dog Wood; Stringing of Oriental Gut, with Split Center. $4 00

RAMONA

Each

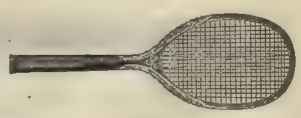
No. 398—Made of Selected Growth White Ash, Beveled Bow; Best Oriental Gut, with Split Center.....$5 00



POWELTON

Each

No. 400—Low Cut Mahogany Throat, Reinforced with Oak, making it Extra Strong. Frame Rounded on Inside; Handle Inlaid with Cork; Strong with Selected Oriental Gut, with Extra Close Center.. .....$6 00



NEWPORT

Each

No. 500—Made of Selected Second Growth White Ash; Low Cut Mahogany Throat, Reinforced with Dogwood; Strung with the Finest Oriental Gut. $7.00

All Above, One in a Paper Bag; Shipping Weight about 1 Lb.

STEERING SLEDS

Prices on Request

BUFFALO SLED COMPANY'S

Fleetwing Steering Sled

Strong — Speedy — Durable — Beautiful

These Sleds are far superior in style, construction and finish to the cheap imitations with which the market is flooded. We use strong, heavy material and the guarantee applied to our sleds is absolutely reliable because every sled bearing the name **Fleetwing** is built to live up to our well-known reputation for quality.

Tops have natural-varnish finish; running gear is red.

No.	Size	Height	Knees	Weight per Doz.	Per Doz.
96	32 x 12 inches	6 inches	4	80 lbs.	$30 00
98	34 x 13¾ "	6	4	85	34 00
100	36 x 13½ "	6 "	4	90	35 50
200	40 x 13½ "	6	4	100	40 00

Packed two in bundle—set up

Fleetwing Steering Sled

No.	Size	Height	Knees	Weight per Doz.	Per Doz.
300	45 x 15 inches	8¾ inches	4	145 lbs.	$55 00
350	51 x 17	8¾ "	4	180 "	60 00
400	51 x 17	8¾	4	185 "	65 00

No. 400 is same as No. 350 with foot rests

Packed two in bundle—set up

STEERING SLEDS

Prices on Request

BUFFALO SLED COMPANY'S

Fleetwing Steering Sled

Larger sizes — Same finish and construction

No.	Size	Height	Knees	Weight per Doz.	Per Doz.
210	45 x 13⅜ inches	6 inches	6	115 lbs.	$48.00
220	51 x 13½ "	6 "	6	125 "	55.00
230	55 x 13½ "	6 "	6	150 "	61.00

Packed two in bundle—set up

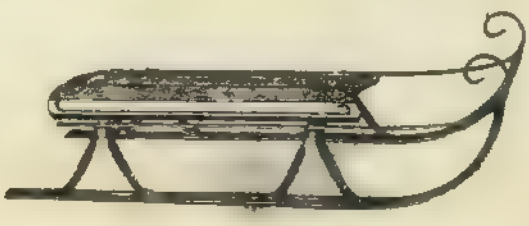
Non-Steering Sled

No.	Length	Height	Width	Weight per Doz.	Per Doz.
90	30 inches	6 inches	12 inches	70 lbs	$21.50

Packed two in bundle set up

Buffalo Tee Steel Sled

Sturdy — Rigid — Swift — Graceful



No.	Size	Height	Knees	Weight per Doz	Per Doz.
28	33 x 12 inches	6 inches	4	85 lbs.	$30.00
32	37 x 12 "	6 "	4	95 "	35.00

Packed two in bundle – set up

SPARK PLUGS

CHAMPION

STUDEBAKER

No. A-13—½ in.....Each, $1.00

For Studebaker cars made previous to 1920 models, and trucks, tractors, farm and stationary engines.

For 1920 models use No. A-43, ⅞ in., 18.

STANDARD

No. A-14—½ in.....Each, $1.00

Specially adapted for tractors, trucks, farm and stationary engines where a standard ½-in. plug is used.

CHAMPION "O"

No. A-14-O—½ in.....Each, $1.00

The Overland Plug. Specially recommended to meet the requirements of the Overland motors.

CHAMPION "X"

No. A-15—½ in.....Each, $0.90

Adopted by the Ford Motor Co. as standard equipment on Ford cars since 1911.

EXTRA LONG

No. A-34—½ in., extra long..Each, $1.00

For use in engines requiring an extra long extension plug.

STANDARD

No. A-43—⅞ in., 18.....Each, $1.00

For use in Allen, Dixie Flyer, Elcar, Elgin, Glide, Grant, Hollier, Jones, Kline Kar, Lexington, Packard, Paige-Detroit, Pierce-Arrow, Metz, Monitor, Moore, Studebaker "1920," and tractors, trucks, farm and stationary engines.

MAXWELL

No. A-44—⅞ in., 18.....Each, $1.00

Maxwell Factory Equipment Plug.

For use in Biddle, Dodge, Gardner, Highlander 6, Spaulding, Mitchell, States, and tractors, trucks, farm and stationary engines.

LONG

No. AA-53—⅞ in., 18, long. Each, $1.00

Made with 1¼-in. hexagon, for use in Buick cars, tractors, trucks, farm and stationary engines.

No. A-53 ⅞ in., 18, long....Each, $1.00

For use in Chevrolet, Oldsmobile, Oakland, Interstate, and tractors, trucks, farm and stationary engines.

Buick Terminal furnished with No. AA-53. Regular knurl furnished with No. A-53 unless otherwise specified.

CHAMPION SPARK PLUGS

are guaranteed to give absolute satisfaction to the user, or full repair or replacement will be made.

CHAMPION SPARK PLUGS

in quantity lots may be assorted in any number of types.

SEATTLE HARDWARE COMPANY

SPARK PLUGS

CHAMPION

"HEAVY STONE"

No. B-13—½ in.....Each, $1.25

No. B-43—⅞ in., 18 " 1.25

Specially adapted for heavy service cars, tractors, trucks, farm and stationary engines. ⅞-in. size for use in Columbia, Cadillac, Dorris, Kissel Kar, McFarlan Six, Oakland Six, Willys-Knight, Willys-Six and Winton.

"PRIMING"

No. H-14—½ in.....Each, $1.50

No. H-44—⅞ in., 18..... " 1.50

Will start a motor on the first quarter turn. Brings gasoline right to the sparking point.

A good winter seller.

"HEAVY DUTY"

No. J-43—⅞ in., 18.....Each, $1.00

For use in Crow-Elkhart, Daniels, Harroun, Norwalk, Standard, and heavy service trucks.

"HEAVY DUTY"

No. JC-53—⅞ in., 18 long. Each, $1.00

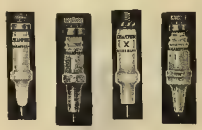
For use in Franklin and Nash cars.

"HEAVY DUTY"

No. JA-43 -⅞ in., 18.....Each, $1.00

For use in Beggs, Bell, Briscoe, Climber, Detroiter, Geronimo, Hanson, Jackson, King, Maibohm, Olympian, Sayers, Tulsa, and heavy service trucks and tractors.

INSULATORS



No. A-103—Plug Type A-13, A-43.....Each, $0.60

No. A-104—Plug Type A-14, A-14-O, A-44, A-64.....Each, .60

No. A-105—Plug Type A-15.. " .50

No. B-103—Plug Type B-13, B-43, B-73.....Each, .65

Symbols ending with 3 are Conical Insulators.

Symbols ending with 4 are Petticoat Insulators.

Gaskets furnished with all Insulators

LIBERTY

The Liberty Spark Plug has been designed to fill the need for a high-grade plug. The insulator is made of material imported from Europe and will stand any heat; can be cooled instantly without damage and may be safely exposed to shock or sudden changes where porcelain insulators would be destroyed. The shell is made of brass, does not rust, and reduces carbon deposits to a minimum. The electrodes are of special nickel alloy, which will stand more heat and resist corrosion better than that employed by nearly all other makes of plugs. The special form and construction of these electrodes makes it impossible for the points to get out of position. The spark gap is constant. Liberty Spark Plugs are guaranteed for the life of the motor.

½ in. Regular	Each,	$1.50
½ in. Long	"	1.50
Metric	"	1.50
⅞-18 Regular	"	1.50
⅞-18 Long	"	1.50
⅞ in. Extension	"	1.50

SPARK PLUG CLEANER

CHAMPION "MINUTE"

The Champion "Minute" Spark Plug Cleaner is one of the best time and trouble savers on the market. The illustration tells the story. You simply fill the tube half full of gasoline, screw the plug you want cleaned into the bushing at the end, then shake No grease, no dirt, no trouble, and you don't even have to take the plugs apart. If you have ever cleaned spark plugs the old way, you can appreciate what this means.

Champion "Minute"—Fits every size and make of spark plug.....Each, $0.75

Packed one in a wooden box.

COLT'S REVOLVERS

No. 25—POLICE POSITIVE, DOUBLE ACTION

This Model has a **Positive Lock,** operating automatically, only when the Trigger is pulled, and at all other times preventing the firing pin from coming in contact with the Cartridge, thereby insuring against accidental discharge.

Solid Frame, Swing Out Cylinder, Simultaneous Ejection, Rubber Stock, Holds 6 Shots

32 Colt Police Positive Caliber, Blued Finish
Will Also Use 32 S. & W. Short or Long Cartridges

	Each
4 in. Barrel; Weight, 18 Oz. Each	$34.00
6 in. Barrel; Weight, 20 Oz. Each	34.00

38 Colt Police Positive Caliber, Blued Finish
Will Also Use 38 S. & W. Cartridges

	Each
4 in. Barrel; Weight, 20 Oz. Each	$34.00
6 in. Barrel; Weight, 21½ Oz. Each	34.00

No. 26—POLICE POSITIVE SPECIAL, DOUBLE ACTION

This Model has a **Positive Lock,** operating automatically only when the Trigger is pulled and at all other times preventing the firing pin from coming in contact with the Cartridge, thereby insuring against accidental discharge.

Solid Frame, Swing Out Cylinder, Simultaneous Ejection, Rubber Stock, Holds 6 Shots

32-20 Caliber; Blued Finish

Any Rifle Cartridge of this Caliber

	Each
4 in. Barrel; Weight, 22 Oz. Each	$35 50
6 in. Barrel; Weight, 25 Oz. Each	35 50

38 Colt, Long or Short Caliber; Blued Finish

Will Also Use 38 S. & W. Special Cartridges

	Each
4 in. Barrel; Weight, 22 Oz. Each	$35 50
6 in. Barrel; Weight, 25 Oz. Each	35.50

No. 27—ARMY SPECIAL, DOUBLE ACTION

Cylinder Revolves to Right, Insuring Tightness and Perfect Alignment; Positive Lock which Absolutely Prevents Accidental Discharge.

Jointless Solid Frame, Swing Out Cylinder, Simultaneous Ejection, Rubber Stock, Holds 6 Shots

32-20 Caliber; Blued Finish

Any Rifle Cartridge of this Caliber

	Each
4 in. Barrel; Weight, 32 Oz. Each	$38 00
6 in. Barrel; Weight, 36 Oz. Each	38.00

38 Colt Caliber; Blued Finish

Will Also Use 38 S. & W. Special Cartridges

	Each
4 in. Barrel; Weight, 32 Oz. Each	$38.00
6 in. Barrel; Weight, 36 Oz. Each	38 00

41 Colt Caliber; Blued Finish

	Each
4 in. Barrel; Weight, 32 Oz. Each	$38.00
6 in. Barrel; Weight, 36 Oz. Each	38.00

No. 28—NEW SERVICE, DOUBLE ACTION

Solid Frame, Swing Out Cylinder, Simultaneous Ejection, Rubber Stock, Holds 6 Shots

38 W. C. F. Caliber, Blued Finish

	Each
5½ in. Barrel; Weight, 40 Oz. Each	$39 00
7½ in. Barrel; Weight, 43 Oz. Each	39 00

44 W. C. F. Caliber; Blued Finish

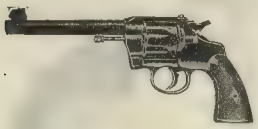
	Each
5½ in. Barrel; Weight, 40 Oz. Each	$39.00
7½ in. Barrel; Weight, 43 Oz. Each	39.00

45 Colt Caliber; Blued Finish

	Each
5½ in. Barrel; Weight, 40 Oz. Each	$39 00
7½ in. Barrel; Weight, 43 Oz. Each	39.00

All Above, Open Stock

COLT'S REVOLVERS



No. 31—OFFICERS' TARGET MODEL; DOUBLE ACTION

Solid Frame, Swing Out Cylinder, Simultaneous Ejection; Walnut Stock, Checkered; Holds 6 Shots

	Each
38 Long Colt; 7½ in. Barrel	$52.00

Weight, 32 Oz. Each

Can also use 38 S. & W. Special Cartridges

No. 34—POLICE POSITIVE TARGET, DOUBLE ACTION

Jointless Solid Frame, Swing Out Cylinder, Simultaneous Ejection; Rubber Stock; 6 in. Steel Barrel, with Block Rear Sight, Adjustable for Windage, and Removable Front Sight Blade, fastened by screw; Cylinder Holds 6 Shots.

	Each
22 Caliber; For 22 Short, Long and Long Rifle Cartridges	$36 00
22 W. R. F.; For 22 W. R. F. Cartridges	36.00
22 Police Positive C. F. Caliber	36.00

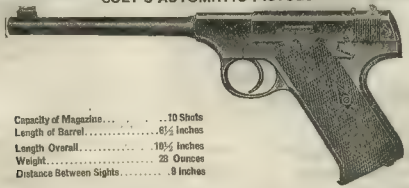
Weight, 22 Oz. Each

No. 32—SINGLE ACTION ARMY

Solid Frame, Rod Ejecting, Rubber Stock, Blued Finished Barrel and Cylinder, Case Hardened Frame; Holds 6 Shots

32 W. C. F. Caliber	Each	38 W. C. F. Caliber	Each
4¾ in. Barrel; Weight, 39 Oz. Each	$36 75	4¾ in. Barrel; Weight, 39 Oz. Each	$36.75
5½ in. Barrel; Weight, 40 Oz. Each	36 75	5½ in. Barrel; Weight, 40 Oz. Each	36.75
7½ in. Barrel; Weight, 42 Oz. Each	36.75	7½ in. Barrel; Weight, 42 Oz. Each	36 75

COLT'S AUTOMATIC PISTOLS



Capacity of Magazine	10 Shots
Length of Barrel	6½ Inches
Length Overall	10½ Inches
Weight	23 Ounces
Distance Between Sights	.9 Inches

COLT, 22 CALIBER LONG RIFLE, R. F.

This is the Only Automatic Pistol now made to handle the Standard Caliber .22 Long Rifle Cartridges, and will prove most popular with Shooters, Sportsmen, Trappers, and others desiring a High Grade Pistol Adapted for this Economical and Easily Obtained Ammunition.

With its Adjustable Target Sights, Long Barrel, Light Trigger Pull, and Splendid Balance, it Possesses all the Advantages of a Single-Shot Target Pistol, with the additional features of Automatic Action, obviating the necessity and inconvenience of reloading for each shot.

The Pistol is Equipped with a Safety Lock which, when the Arm is Cocked, may be pushed upward, thus positively Locking Hammer and Slide. This Safety Lock is located within easy reach of the thumb of the hand holding the Pistol and may be instantly pressed down when raising the Pistol to the Firing Position. It also acts as an Indicator showing whether or not the Pistol is Cocked.

An Extension of the Frame at Rear Serves as a Guard to Prevent the Hand of the Shooter from Slipping Upward and being injured by the Recoiling Slide; this also acts as a Guide to Keep the Hand in the Same Position for Each Shot, thereby aiding in Accurate Shooting. The Grip or Stock Slants at a Correct Angle in Relation to Barrel and Line of Sight, giving the Shooter the Proper "Hold" of the Piece Without Wrist Strain.

The Magazine is provided with a Thumb Grip or Pin which projects on the right side and enables the Operator to Compress or Relieve the Tension on the Magazine Spring to Facilitate Loading the Magazine.

Full Blued Barrel and Mountings; Checkered English Walnut Stock; Bead Front Sight, Adjustable for Elevation; Rear Sight, with Adjusting Screw, Adjustable for Windage

	Each
No. 22A—22 Caliber, R. F., Chambered for 22 Long Rifle, Greased Cartridges Only	$41.00

Weight, 28 Oz. Each

DULUTH HARDWARE STORE FIXTURES

REMOVABLE END PANELS

All Cabinets, Half Height Cabinets and Bases are Fitted with Removable End Panels. Fixtures, which are equipped in this manner, make it unnecessary for the Merchant to purchase additional ends when adding new cabinets or bases to his fixtures. The end panels on the old fixtures are Easily Removed, the new fixtures set up flush against the old and the ends transferred to the new sections, making one continuous line of shelving.

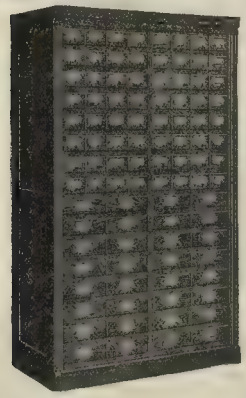
Each

No. 10—Cabinet End Panel (Half Height) $5.00
Shipping Weight Approximately 20 Lbs. Each

No. 20—Cabinet End Panel 3.50
Shipping Weight Approximately 35 Lbs. Each

No. 30—Base End Panel 2.50
Shipping Weight Approximately 40 Lbs. Each

All Prices are F. O. B. Duluth, Minn., and are Subject to a Trade Discount



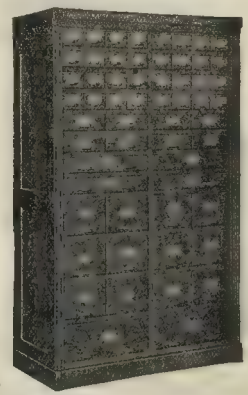
SCREW CASE

Width 33¼ In., Height 60¼ In., Depth 16⅝ In.

This Screw Case is Made with All Exposed Parts of White Oak, Paneled Ends and Finished in our Standard Medium Oak Finish, Varnished and Hand Rubbed. Fitted with 64 "Duluth" Patented Oak Front Steel Drawers 3⅝ in. Wide, 2⅜ in. Deep and 16 in. Long and 32 Drawers 7⅛ in. Wide, 3⅝ in. Deep and 16 in. Long. Each Drawer is equipped with Brush Brass Finished Label Holder and Pull.

Each

No. 1041—Shipping Weight, Approximately 345 Lbs. $80.00



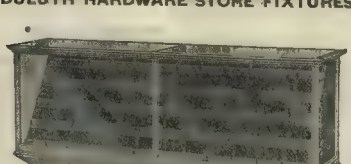
SCREW CASE

Width 33¼ In., Height 60¼ In., Depth 16⅝ In.

This Screw Case is Made with All Exposed Parts of White Oak, Paneled Ends and Finished in our Standard Medium Oak Finish, Varnished and Hand Rubbed. Fitted with 32 "Duluth" Patented Oak Front Steel Drawers 3⅝ in. Wide, 2⅜ in. Deep and 16 in. Long; 8 Drawers 7⅛ in. Wide, 2⅜ in. Deep, 16 in. Long; 12 Drawers 7⅛ in. Wide, 6 in. Deep, 16 in. Long, and 2 Drawers 15 in. Wide, 6 in. Deep, and 16 in. Long

No. 1051—Shipping Weight, Approximately 319 Lbs. $65.00

DULUTH HARDWARE STORE FIXTURES



AUTO ACCESSORY DISPLAY CASE

No. 1513

Height 42 inches; Width 26 inches; Bevel Plate Glass Top; Double Strength Glass Front, Ends and Doors; 8 inch Receding Base. Frame of Southern White Oak Finished in a Beautiful Medium Oak Shade, Varnished and Hand Rubbed.

Interior fitted with five rows of drawers removable from the rear; each drawer equipped with a Combination Metal Pull and Label Holder. Drawers are 6½, 10½, 14½, 19 and 23 inches Long respectively and are 6 inches High by 7¾ inches Wide.

Length, Ft.	4	6	8	10	12
Each	$112.00	156 00	208.00	260.00	312.00

Shipping Weight Approximately 80 Lbs. per Running Foot

BOLT CABINET

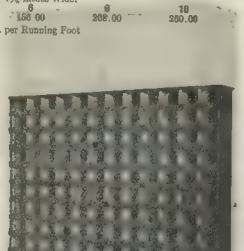
Length 8 ft. 7⅝ in.; Height 7 ft. 6 in.

All Exterior Parts are made of Plain White Oak with Paneled Oak Ends; Interior Parts are of Whitewood. The upper part is 16⅞ in. Deep and Contains 155 Adjustable Bins which are 6 inx 5½ in. The lower part is 20¼ in. Deep, which provides a Ledge 13⅞ in. Wide, and contains 27 Bins 10x8¼ in.

Each

No. 5975—Used for Bolts, Malleables, Pipe Fittings, and other loose goods carried in open stock..... $188 40

Shipping Weight about 900 Lbs.



STOCK AND AUTO ACCESSORY BIN CABINET

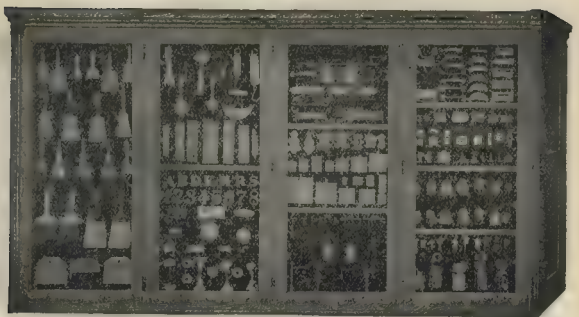
Length 8 ft. 3⅞ in.; Height 5 ft. 3 in.; Depth 16 in.

An Attractive, serviceable and Economical Equipment for Keeping Stock where it is Easy to Find. A Cabinet that is better and cheaper than built-in-bins for the Storage of Valves, Vacuum Sponges, Pedal Rugs, Grease Cups, Bolts, Rivets, Bushings, Plumbers Supplies, Auto Repair Parts, etc. Built of Oak and Finished in a Standard Medium Oak Finish, Varnished and Hand Rubbed. Contains 135 Compartments 6 in. Wide, 6¼ in. High and 16 in. Deep. Each Compartment fitted with Brush Brass Finished Label Holders. All Compartments are Adjustable for Width up to 30 inches wide.

Each

No. 1776—Shipping Weight approximately 425 Lbs.....$135.00

DULUTH HARDWARE STORE FIXTURES



"DULUTH" GLASS DISPLAY DOOR HARDWARE CABINET
(Length 9 ft. 3⅞ in., Depth 16¾ in., Height 57½ in.)

Display Doors—This cabinet is equipped with four sample display doors glazed with double strength glass. Each door is hung with three substantial hinges, brush brass finish and fitted with brass pull and ball catch. All doors, unless otherwise ordered, will be hinged so as to swing toward the front of the store.

Interior—Back of each door are four adjustable wood shelves. Any arrangement, however, of the interior can be had at a slight additional charge by use of insets which are fitted with a large variety of oak front steel drawers.

Sample Boards—Sample boards are covered with green felt and securely fastened into a recessed frame at the back of each door. They can be easily removed and are built of a crossbanded veneered panel so as to prevent warping or splitting. The backs of the sample boards are finished to match the exterior of the cabinet. They are made in sections, one, two, three or four sections to a door and by a very ingenious device they can be easily removed, the articles displayed on them shown to the customer and then put back in the door.

Weight—Shipped set up, shipping weight approximately 490 lbs. each.

	Each
No. 875—Without End Panels..	$134 00

(If End Panels are Wanted Add $7.00 to List Price.)

"DULUTH" SECTIONAL REMOVABLE PANEL DISPLAY DOOR
(Patent Applied For)

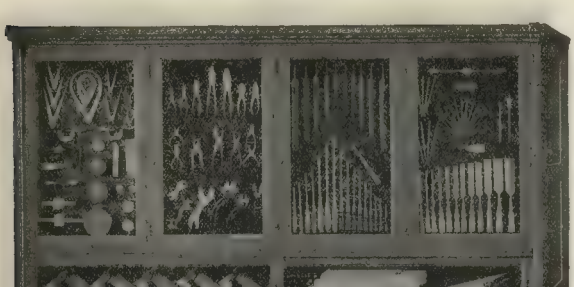
In addition to the regular display door with full length panel back, they are also manufactured with "Sectional Removable Panels," either two, three or four panels to a door. This feature cannot be had on any other make of Hardware Store Furniture and is exclusive with the "Duluth" line. It is worthy of the most serious consideration of every merchant who is contemplating the installation of hardware fixtures for it will display his goods to better advantage, save time for his clerks and systematize his whole store.

To better illustrate this feature, let us take the following example. Back of one of the display doors are stored several different classes or kinds of builders hardware. Instead of the ordinary shelves there is a cabinet inset fitted with oak front metal drawers. Each drawer has a label holder containing a card which gives the stock number of the article contained in it. The display door has four removable panels, one panel is sampled with padlocks, another with butts, still another with drawer pulls and sash lifts and the fourth with cupboard catches, small draw locks etc. Under each article on the panels is the stock number which corresponds with the number on the drawer which is directly in back of it. A customer wants a padlock; instead of taking down from the shelves a number of packages, opening them, unwrapping the padlocks (all of which consumes time) the clerk lifts out the panel on which they are sampled and lays the panel on the counter for inspection. The customer at one glance can see the merchant's entire stock and the selection of the one wanted is quickly made. The clerk slips the panel back in place on the door and takes the padlock selected from the drawer which bears the corresponding stock number. The whole transaction thus consumes only a few moments, the clerk is free to turn his attention to other prospective purchasers and the customer has been promptly waited on. In addition the stock has not become mixed nor have original packages been left on the base ledge to be put back later on the shelves.

For this important feature, which cannot be used or is sold independently or apart from "Duluth" Sectional Hardware Fixtures, the following slight extra charges are made.

Extra for each display door fitted with two Sectional Removable Panels.... $2.00
Extra for each display door fitted with three Sectional Removable Panels.... 3.00
Extra for each display door fitted with four Sectional Removable Panels.... 4.00

DULUTH HARDWARE STORE FIXTURES



"DULUTH" GLASS DISPLAY DOOR HARDWARE CABINETS
(Length 8 ft. 3⅝ in., Depth 16⅜ in., Height 57½ in.)

Display Doors—This cabinet is equipped with four sample display doors glazed with double strength glass. Each door is hung with two substantial hinges, brush brass finish and fitted with brass pull and ball catch. All doors, unless otherwise ordered, will be hinged so as to swing toward the front of the [illegible].

Sample Boards—Sample boards are covered with green felt and securely fastened into a recessed frame at the back of each door. They can be easily removed and are built of a cross-bonded veneered panel so as to prevent warping or splitting. The backs of the sample boards are finished to match the exterior of the cabinet.

Interior—Back of each door are four adjustable wood shelves. Any arrangement, however, of the interior can be had at a slight additional charge by use of inserts which are fitted with a large variety of oak front steel drawers.

Lower Display Below the display Doors are sliding glass doors glazed with a select quality of double strength glass. The back of this display portion is lined with a rich green felt and arranged with racks for guns, saws, etc. In ordering be sure and state the goods you intend to display so we can include the proper racks.

Weight—Shipped set up, shipping weight approximately 400 lbs. each.

	Each
No. 800—Without End Panels	$452 60
(If End Panels are Wanted Add $7.00 to List Price.)	
No. 805—With Bottom Part left Open for Wrapping Paper and Twine; Otherwise Same as No. 800; Approximate Shipping Weight 460 Lbs.	$126 00
No. 810—With Bottom Part Divided by an Adjustable Shelf for Builders Hardware; Otherwise same as No 800. Approximate Shipping Weight 475 Lbs.	138.00
No. 815—With One Half of Bottom Part fitted with 32 Drawers, 6x2¾x16 in. in size, and other half of Bottom Part left Open for Wrapping Paper and Twine, Otherwise same as No. 800; Approximate Shipping Weight 495 Lbs.	144 00
No. 820—With Bottom Part fitted up with 64 Drawers as follows,—16 size 6x6x16 in., 16 size 6x2¾x16 in., and 32 size 3x2¾x16 in.; Otherwise same as No. 800; Approximate Shipping Weight 530 Lbs.	162.30
No. 825—With Bottom Part fitted up with 36 Drawers as follows—4 size 12x6x16 in., 16 size 6x6x16 in., and 16 size 6x2¾x16 in.; Otherwise same as No. 800. Approximate Shipping Weight 560 Lbs.	152.00
No. 830—With Bottom Part fitted up with 80 Drawers as follows,—8 size 18x2¾x16 in., 8 size 6x2¾x16 in., and 64 size 3x2¾x16 in.; Otherwise same as No. 800. Approximate Shipping Weight 595 Lbs.	167 60
No. 835—With Bottom Part fitted up with 8 Drawers, size 24x6x16 in; Otherwise same as No. 800; Approximate Shipping Weight 490 Lbs.	139.70
No. 840—With Bottom Part fitted up with 36 Drawers as follows—2 size 24x6x16 in., 4 size 12x6x16 in., 8 size 6x6x16 in; and 16 size 6x2¾x16 in.; Otherwise same as No. 800; Approximate Shipping Weight 580 Lbs.	149.00
No. 850—With Bottom Part fitted up with 96 Drawers as follows—32 Size 6x2¾x16 in., and 64 size 3x2¾x16 in.; Otherwise same as No. 800; Approximate Shipping Weight 605 Lbs.	172.90

SAFETY RAZORS

Leather Case, Purple Lined

No. 460—Leather Case, Triple Silver Plated Razor, Complete with 12 Double-Edged Blades..... Each, $5.00

Metal Case, Purple Lined

No. 460B—Nickel-Plated Case, Triple Silver-Plated Razor, Complete with 12 Double-Edged Blades..... Each, $5.50

Leather Case (Soft Roll)

No. 20—Triple Silver Plated Razor and Blade Box, with Metal Mirror and 12 Double-Edged Blades.....Each, $5.00

Leather Case, Purple Lined

Bulldog—Short, stocky handle, Triple Silver-Plated Razor, with Blade Box to match Case, Complete with 12 Double-Edged Blades..... .....Each, $5.00

GILLETTE BLADES

No. 6—In sets of 6; 12 Cutting Edges, ... Per set, $0 50

No. 12—In sets of 12; 24 Cutting Edges..... .. " " 1 00

GILLETTE

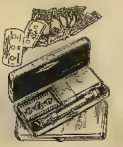
French Ivory Case, Purple Lined

Aristocrat—Triple Silver-Plated Razor and Blade Box to match Case, Complete with 12 Double-Edged Blades. .....Each, $6.00

Ivory Case, Lined with Old Rose Violet and Satin

Milady Decollete—14K Gold Plated Razor and Blade Box, Complete with 12 Double-Edged Blades....Each, $6.00

This is a special set for ladies to keep the underarm white and smooth.



Plain Case, Velvet Lined

No. 500—Triple Silver-Plated Case, Razor and Blade Box, Complete with 12 Double-Edged Blades....Each, $5.00

No. 500B—Gold-Plated Case, Gold-Plated Razor and Blade Box, Complete with 12 Double Edged Blades. ..Each, 6 00

Basket Pattern—Velvet Lined

No. 501—Triple Silver-Plated Case, Razor and Blade Box, Complete with 12 Double-Edged Blades Each, $5.00

No. 501B—Gold-Plated Case, Razor and Blade Box, Complete with 12 Double-Edged Blades.....Each, $6.00

Leather Case, Silk Lined

No. 00—Triple Silver-Plated Razor, Shaving Brush and Soap in Nickel-Plated Holder, Complete with 12 Double-Edged Blades.....Each, $7.50

No. 17G—Bulldog Type. Gold Plated Razor, Shaving Stick and Shaving Brush in Nickel-Plated Holders. Metal Mirror, 12 Double-Edged Blades. .....Each, $10.00

Big Fellow—Extra length stocky handle, Triple Silver Plated Razor, with Blade Box and 12 Double-Edged Blades in Oblong Flat Wooden Case Each, $5.00

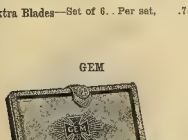
SAFETY RAZORS

EVER-READY

Ever-Ready—Nickel-plated, Adjustable Frame, Complete with 12 Blades in a Leatherette Case.....Dozen sets, $12.00

Extra Blades—Set of 6. . Per set, .75

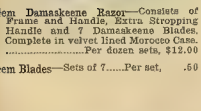
GEM



Gem Damaskeene Razor—Consists of Frame and Handle, Extra Stropping Handle and 7 Damaskeene Blades. Complete in velvet lined Morocco Case. .....Per dozen sets, $12.00

Gem Blades—Sets of 7.....Per set, .50

ENDERS'



Enders'—With a Solid Steel Knurled Handle, firmly fitted to the Blade Holder, and is very simple of operation. Put up in an attractive plush-lined box, Complete with five Blades. .. . . .Per dozen, $12.00

Extra Blades—Set of 5....Per set, .50

DURHAM DOMINO

Durham Domino Razor—With American Ivory Handle. Five Blades and Stropping Attachment in genuine Leather Folding Case.....Per set, $1 00

Durham Duplex Blades—Set of 5, .50

AUTO-STROP

The Standard Outfit consists of Morocco grain black Leather Case, Self-Stropping Razor, 12 Auto-Strop Blades and shell horsehide Auto-Strop Strop.

No. 1—Quadruple Silver-plated Razor Size of outfit, 2x4 in.....Each, $5.00

AUTO-STROP

The Metal Case Outfit consists of velvet lined Metal Case, Self Stropping Razor, 12 Auto-Strop Blades and shell horsehide Auto-Strop Strop. Size of outfit, 1¼x3¾ in.

No. 50—Nickel-plated Case,Silver-plated Razor.....Each, $5.00

AUTO-STROP

No. 251—Embossed Nickel-plated Case, Silver-plated Razor.....Each, $5.00

No. 254S—Embossed Satin Gun-Metal Case, Silver-plated Razor..Each, 5.00

AUTO-STROP

No. 350—Nickel-plated Plain Case, Silver-plated Razor . ...Each, $5.5 j

No. 351—Nickel-plated Embossed Case, Silver-plated Razor.....Each, 5.50

AUTO-STROP

No. 400—Ivory Case, Silver-plated Razor .. . . Each, $6.00

AUTO-STROP EXTRAS

Auto-Strop Blades—In sets of 6 Blades. . .. .Per set, $0.50

Auto-Strop Blades In sets of 12 Blades ....Per set, 1.00

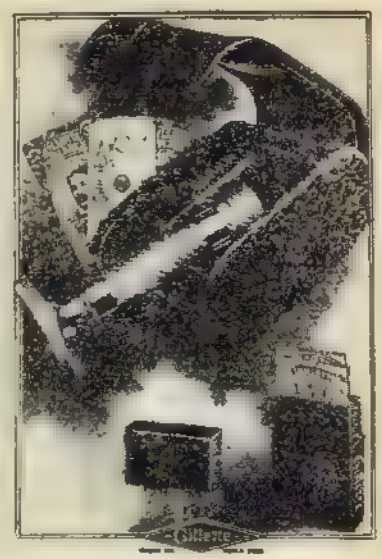
Auto-Strop Strops . . .. .. Each, .50

GILLETTE SAFETY RAZORS

'KNOWN THE WORLD OVER"

Packed with Twelve Double Edged Gillette Blades. Blades Packed in Metal Box to Match Razor Case.

No. 460



No. 1460

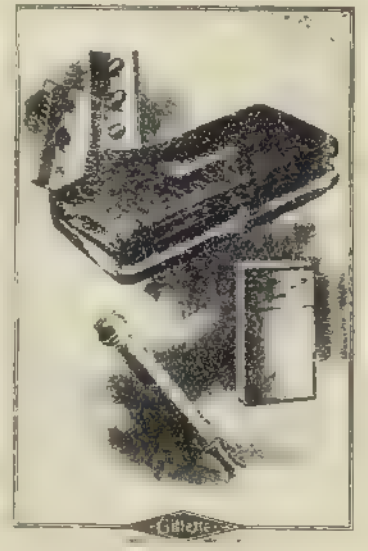
Standard

No. 460—Triple Silver Plated Velvet Lined Morocco Case . . . . . Each **$7.50**

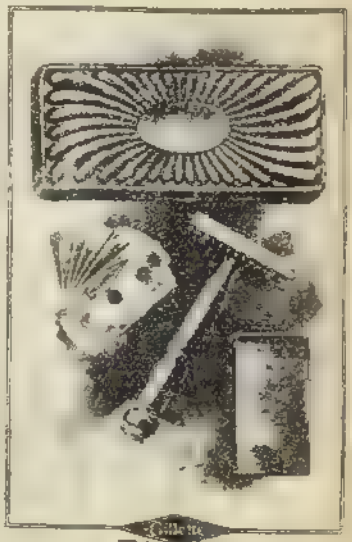
Bull Dog

Heavier than Regular Standard. Oval Case of Gray Antique Leather, Velvet Lined

No. 1460—Triple Plated Silver . . . . . Each **$7.50**



Nos. 501, 501B



Nos. 500, 500B

Pocket Edition

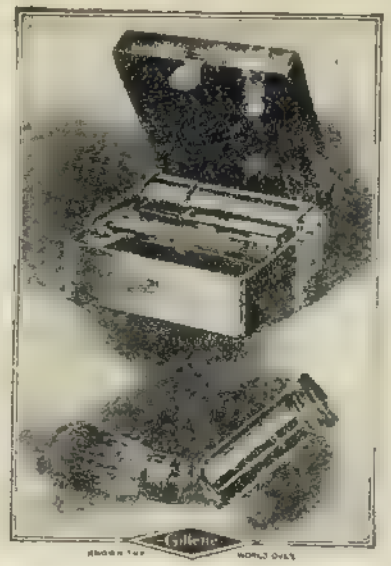
		Each
No. 500	Triple Silver Plated. Velvet Lined, Triple Silver Plated Metal Case	$7.50
No. 500B	Gold Plated. Velvet Lined, Triple Silver Plated Metal Case	9.00
No. 501	Triple Silver Plated Basket Pattern Velvet Lined, Triple Silver Plated Case	7.50
No. 501B	Gold Plated Basket Pattern, Gold Plated Case Velvet Lined	9.00

GILLETTE SAFETY RAZORS

"KNOWN THE WORLD OVER"

Packed with Twelve Double Edged Gillette Blades. Blades Packed in Metal Box to Match Razor Case.

Nos. 1461, 1462



No. 461B

Aristocrat

French Ivory Case Velvet Lined

	Each		Each
No. **1461**—Triple Silver Plated	$7.50	No. **1462** Gold Plated	$9.00

Combination Set

Consists of Triple Silver Plated Razor, with Twelve Double Edged Blades Telescope Pattern Rubberset, Badger Hair Shaving Brush Stick Gillette Shaving Soap in Triple Silver Plated Holder

	Each
No. 461B—Velvet Lined, Nickel Plated Case	$10.50

Combination Set Standard

Consists of Triple Silver Plated Razor with Twelve Double Edged Blades, Rubberset Badger Hair Shaving Brush and Stick, Gillette Shaving Soap in Triple Silver Plated Holders.

	Each
No. 00—Seal Leather Case	$11.25

BLADES

Put Up Each in a Separate Envelope, in Sets of Twelve and Sets of Six in a Paper Box.

	Per Set
Sets of 12	$1.50

Ten sets in a box

	Per Set
Sets of 6	.75

Twenty sets in a box.

REVOLVING SCREW AND BOLT CASES

Factory Shipment Only.

AMERICAN

Double Tops and Bottoms. Crossed Grain Wood Glued, Screwed and Braced with Iron Rods. Iron Standards, Screwed Firmly into Iron Hub in Bottom, make them Perfectly True and Solid. Regular Cases are Made of Best Seasoned Tennessee Poplar, Finished in Imitation of Cherry. Fronts of Drawers are made of Best Norway Pine, with Sizes They Contain Nicely Printed on. Prevent Mixing of Screws and Bolts. Drawers Provided with Stops to Prevent Their Removal from Case. Each Drawer Holds a Full Package of Bolts or Screws of Size and Number Indicated on Front of Drawer.

Size 1

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ¼ x 3, 4, 5, 6, 7
Inches, ⅜ x 5, 6, 7, 8.
Inches, ½ x 5, 6, 7, 8, 9
Inches, ⅝ x 7, 8, 9, 10
Inches, ¾ x 6, 7, 8, 9, 10, 11, 12, 13, 14
Inches, 1¼ x 7, 8, 9, 10, 11, 12, 13, 14, 15
Inches, 1½ x 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1¾ x 9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2 x 10, 11, 12, 13, 14, 15, 16, 17, 18
Inches, 2¼ x 12, 13, 14, 15, 16,
Inches, 3 x 16, 18, 20, 22.

Size 2

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ¼ x 2, 3, 4
Inches, ⅜ x 3, 4, 5, 6, 7.
Inches, ½ x 4, 5, 6, 7, 8
Inches, ⅝ x 4, 5, 6, 7, 8, 9, 10
Inches, ¾ x 6, 7, 8, 9, 10, 11.
Inches, 1 x 6, 7, 8, 9, 10, 11, 12, 13, 14
Inches, 1¼ x 7, 8, 9, 10, 11, 12, 13, 14, 15
Inches, 1½ x 8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1⅝ x 9, 10, 11, 12, 13, 14, 15, 16, 17.
Inches, 2 x 10, 11, 12, 13, 14, 15, 16, 17, 18.
Inches, 2¼ x 12, 13, 14, 15, 16.
Inches, 3 x 16, 18, 20, 22.

SCREW

Size 3

Contains Labeled Drawers for Following Sizes of Screws.

Inches, ¼ x 1, 2
Inches, ⅜ x 2, 3, 4, 5.
Inches, ½ x 3, 4, 5, 6, 7
Inches, ⅝ x 4, 5, 6, 7, 8, 9.
Inches, ¾ x 4, 5, 6, 7, 8, 9, 10.
Inches, ⅞ x 6, 7, 8, 9, 10, 11, 12
Inches, 1 x 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1¼ x 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1½ x 9, 10, 11, 12, 13, 14, 15, 16, 17, 18
Inches, 2 x 10, 11, 12, 13, 14, 15, 16, 17, 18
Inches, 2¼ x 12, 13, 14, 15, 16.
Inches, 3 x 16, 18, 20, 22.

Size 4

Contains Labeled Drawers for Following Sizes of Screws:

Inches, ¼ x 1, 2
Inches, ⅜ x 2, 3, 4, 5, 6
Inches, ½ x 3, 4, 5, 6, 7, 8.
Inches, ⅝ x 4, 5, 6, 7, 8, 9, 10, 11
Inches, ¾ x 4, 5, 6, 7, 8, 9, 10, 11, 12
Inches, ⅞ x 6, 7, 8, 9, 10, 11, 12.
Inches, 1 x 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
Inches, 1¼ x 7, 8, 9, 10, 11, 12, 13, 14, 15.
Inches, 1½ x 8, 9, 10, 11, 12, 13, 14, 15, 16
Inches, 1⅝ x 9, 10, 11, 12, 13, 14, 15, 16, 17
Inches, 2 x 10, 11, 12, 13, 14, 15, 16, 17, 18
Inches, 2¼ x 12, 13, 14, 15, 16
Inches, 3 x 16, 18, 20, 22.
Inches, 3¼ x 16, 18, 20.

Poplar Wood, Cherry Stained

		Each	
No. 1—72 Drawers. Ht., 33 Ins. Width, 21 Ins. Wt., 130 Lbs.		$33.00	**$72.60**
No. 2 80 Drawers. Ht. 36 Ins. Width, 21 Ins. Wt., 130 Lbs.		37.50	**82.50**
No. 3 88 Drawers. Ht., 39 Ins. Width, 24 Ins. Wt., 135 Lbs.		$42.00	**$92.40**
No. 4—96 Drawers. Ht., 42 Ins. Width, 24 Ins. Wt., 135 Lbs.		46.00	**101.20**

BOLT

Contains Labeled Drawers for Following Sizes of Bolts:

Tire.

Inches, $\frac{3}{16}$ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3.
Inches, ¼ x 1½, 1¾, 2, 2¼, 2½, 2¾, 3
Inches, $\frac{5}{16}$ x 2, 2¼, 2½

Carriage.

Inches, ¼ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 4¾, 5.
Inches, $\frac{5}{16}$ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 4¾, 5, 5½, 5¾, 6.
Inches, ⅜ x 2, 2¼, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 5, 6.
Inches, $\frac{7}{16}$ x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
Inches, ½ x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12.

Poplar Wood, Cherry Stained

98 Drawers. 60 Ins. High, 30 Ins. Wide. Weight, About 400 Lbs

	Each	
No. 10	$65.30	**$163.20**

Contains Labeled Drawers for Following Sizes of Bolts

Tire.

Inches, $\frac{3}{16}$ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3
Inches, ¼ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3
Inches, $\frac{5}{16}$ x 2, 2¼, 2¾

Carriage

Inches, ¼ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 4¾, 5
Inches, $\frac{5}{16}$ x 1½, 1¾, 1¾, 2, 2½, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 4¾, 5, 5½, 5¾, 6
Inches, ⅜ x 2, 2¼, 2¾, 2¾, 3, 3½, 3¾, 3¾, 4, 4½, 4¾, 5, 6
Inches, $\frac{7}{16}$ x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.
Inches, ½ x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12

Poplar Wood, Cherry Stained

104 Drawers. 65 Ins. High, 30 Ins. Wide. Weight, About 390 Lbs.

	Each	
No. 20	$71.40	**$178.50**

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory in Ohio

BOLT AND SCREW CASES

BROWN'S PERFECTION

Drawers are Square, with No Waste Space at Center. Labeled with Size of Screw or Bolt. Each Drawer will Hold a Full Package of Size Indicated. Case Revolves Easily, Whether Empty or Full.

BOLT

Made of Good Quality Tennessee Oak, Hard Oil Finish. Drawers are Made Square, with No Waste at Center. Forty Drawers. Height, 37 Ins. Diameter, 22 Ins.

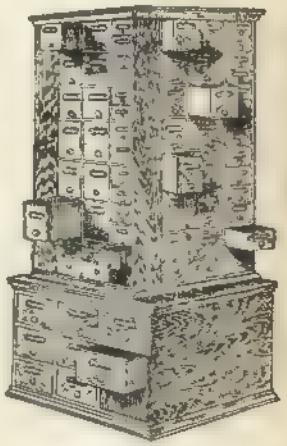
Labeled as Follows

1½x1½, 1¾, 2, 2¼, 2½, 3, 3½, 4, 4½, 5.
⅞x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 6.
⅛x2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8,
⅛x3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10

	Each	
No. 40—Wt., Each, About 180 Lbs.....	$27.00	**40.50**

COMBINATION BOLT AND SCREW CASES

Made of Good Quality Tennessee Oak, Hard Oil Finish. Same as No 40, Except Corners are Left Square and Filled in with Small Drawers for Screws.



UPPER CASE, ONLY; WITHOUT BASE

With 112 Boxes. 56 for Bolts and 56 for Screws. Height of Case, 50 Ins. Diameter, 24 Ins.

	Each	
No. 112—Wt., Each, Abt. 300 Lbs	$54.00	**$80.90**

CASE AND BASE, COMPLETE

Base is 30 Ins. Square, 20 Ins. High and Contains 18 Drawers Upper Case has 112 Boxes, 56 for Bolts and 56 for Screws. Height, Over All, 70 Ins.

No. 130—Wt., Each, Abt. 480 Lbs.....	$87.00	**$161.00**

No. 112 Cases Leave the Factory Labeled as Follows:

Washers, ½, ⅝, ¾, ⅞.
Bolts, ¼x1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5.
Bolts, ⅜x1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5, 6
Bolts, ½x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8
Bolts, ⅝x2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12
Screws, ½—3, 4, 5 (in One Drawer).
Screws, ⅝—3, 4, 5, 6.
Screws, ¾—4, 5, 6, 7.
Screws, ⅞—5, 6, 7, 8, 9
Screws, 1—6, 7, 8, 9
Screws, 1—7, 8, 9, 10, 11
Screws, 1¼—8, 9, 10, 11, 12
Screws, 1½—9, 10, 11, 12, 13, 14
Screws, 1¾—11, 12, 13, 14.
Screws, 2—11, 12, 13, 14.

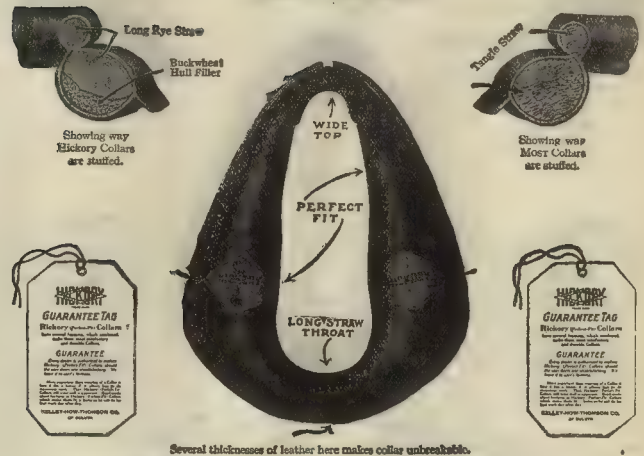
This Leaves 14 Small Drawers with Blank Labels, which can be Used for Tire Bolts or Stove Bolts, Etc

No 130, Case Labeled as Above, with the Following Added in the Base:
Washers ⅞, 1.
Bolts, ¼—5, 6, 7, 8, 9, 10, 11, 12.
Bolts ¾—7, 8, 9, 10, 11, 12, 14, 16.
Labels Can Easily be Changed to Suit Your Own Selection.

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory in Tenn.

COLLARS

Hickory Guaranteed



Several thicknesses of leather here makes collar unbreakable.

HICKORY GUARANTEED COLLARS

are so superior to ordinary collars that we sell them on this Guarantee *"Satisfaction, New Collars, or Money Back".*

A Sweat Pad should not be used with them. A horse can work in a Hickory Guaranteed Collar 365 days in a year without shoulder trouble. They will fit any shaped horse's neck and are recommended by Dr. G. Ed. Leech, M. D. C., Secretary of the Minnesota State Veterinary Association.

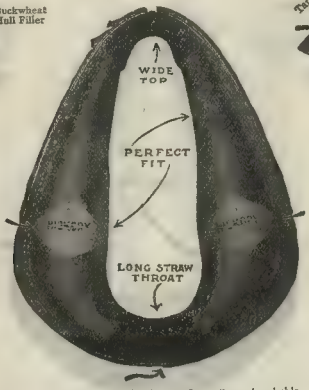
No. 10—17 in. Draft, Russet Face, Whole Shoulder, Extended Liner, Thread Stitched Around Outer Seam, Wide Ribbon Stitched with Reinforced Solid Leather Throat, Sole Leather Collar Pad, 1¼ in. Billet, Thong Finish.....$33.68

COLLARS

Hickory Guaranteed

Showing way Hickory Collars are stuffed.

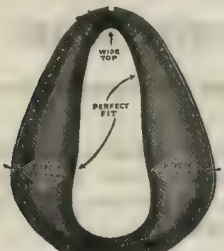
Showing way Most Collars are stuffed.



Several thicknesses of leather here makes collar unbreakable.

Per Dozen

No. 11—18 in. Draft; **Whole Shoulder, Russet Face,** Ribbon Stitched, Sole Leather Collar Pad, Strapped on 1¼ in. Thong Finish. A Collar for Heavy Dray and Lumber Work. $167 50



STRONG FLEXIBLE THROAT

Per Dozen

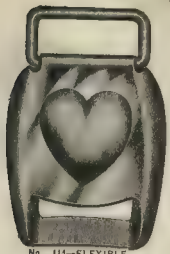
No. 25—16 in. Draft, **All Russet,** Whole Rim, Reinforced Back, Ribbon Thong Sewed, **Flexible Throat,** Thong Finished Top, Sole Leather Collar Pad. $144 00

HALF SWEENEY

Per Dozen

No. 59—16 in. Draft, **All Russet,** Reinforced Back, Wide Ribbon Thong, Sewed Thong, Finished Top; Sole Leather Collar Pad, Reinforced Throat. $120 00

BUCKLE SHIELDS



No. 114—FLEXIBLE

Size, In	¾	⅞	1	1¼	1½
Nickel . . . Per Gross	$8.00	9.60	12.40	14.50	17.20
Brass . . . Per Gross	8.00	9.60	12.40	14.50	17.20

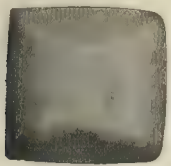
One-Half Gross in a Box

No. 2—MOSSMAN'S

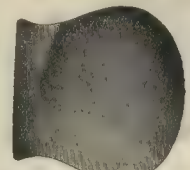
Size, In	¾	⅞	1	1¼	1½
Nickel . . . Per Gross	$6.80	7.40	9.40	11.40	13.40
Brass . . . Per Gross	6.80	7.40	9.40	11.40	13.40

One-Half Gross in a Box

BLIND IRONS



SQUARE



SENSIBLE OR CONCORD

No. 1½—Size 4x4⅝ in. $0.00

Per Dozen Pairs

One Dozen Pairs in a Box

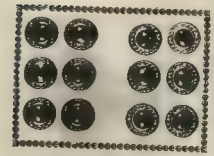
No. 17—⅝ for ⅝ Blinds $1 00

No. 18—¾ for ¾ Blinds 1 00

Per Dozen Pairs

One Dozen Pairs in a Box

ROSETTES



Per Card of 12

No. 4—Contains 6 Pairs, Size 1⅜ in.; Bright Colored Glass Centers; Half have Gilt Rims, Balance have Nickel Rims; Wire Loops. $1.30

Per Card of 12

No. 3—Contains 6 Pairs, Size 1⅜ in. Bright Colors; Nickel Plated Rims, Wire Loops $1.30

Per Card of 12

No. 2—Contains 6 Pairs, Assorted, 4 Pairs 1¾ in. and 2 Pairs 1½ in., Half have Brass Rims, Balance Nickel Rims, Polished; Bright Colors; Heavy Wire Loops. $1.70

ROSETTES AND TASSELS

No. 604—GLASS INITIAL
Crystal Glass, Flat Pattern, Gilt Reflecting with Scallop border, Black Letters
Size, in.... .. .. 1¼
Per Pair.....$0.16

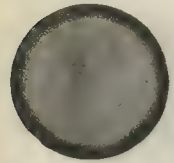
No. 2280—REGAL
Flat Back, Riveted Loop

Sizes, in.	1¾	2	2¼
Brass, per Doz.	$0.35	.40	.45
Nickel on Brass, per Doz.	.36	.40	.45

No. 2110—ORIENTAL
Flat Back, Riveted Loop

Sizes, in.	1½	1¾	2	2¼
Brass, per Doz.	$0.30	.36	.40	.45
Nickel on Brass, Doz.	.32	.36	.40	.45

One Dozen on a Card



No. 1200—LIGHT TRUCK
Solid Back and Riveted Loop

Size, in.	2
Brass, per Doz.	$0.56
Nickel on Brass, per Doz.	.56

No. 2060—OVAL TOP
Solid Back and Riveted Loops

Sizes, in.	2	2¼
Brass, per Doz.	$0.40	.50
Nickel on Brass, per Doz.	.40	.50

No. 1994—BUGGY
Beaded Opal

Size, in.	1½
Gilt, per Doz.	$0.60

HAIR TASSELS
Made in Red Color Only

	Per Pair
No. 3—12 in. Long	$0.60
No. 4—15 in. Long	.70

ROSSETTE DROOPING HAIR PLUMES
In Red Only

	Per Pair
No. 21—12 in. Long	$0.90

CORRUGATED HAIR ROSETTES
In Red Only

	Per Pair
No. 21—9 in. Long	$0.60

SLEIGH BELLS

BODY STRAP

Wrought Steel Bells. Nickel Plated. One inch, Plain, Black Harness Leather Strap.

Nos.	788	789	794	1206	1212	1217
Size of Bells, Inches	1½	1½	1½	1½	1½	1½
Number of Bells	24	30	30	36	36	36
Per Strap	$2 22	2.50	2.78	3.34	3.62	3.90
	$3.75	**4.15**	**4.65**	**5.50**	**5.95**	**6.50**

Packed one in a box.

BODY STRAP

Wrought Brass Bells. Nickel Plated. One inch, Plain, Black Harness Leather Strap.

Nos.	808	814	819	824	827
Size of Bells, Inches	1½	1½	1½	1½	1½
Number of Bells	30	36	36	36	30
Per Strap	$5 32	6.42	6 90	7 30	7 30
	$9.10	**11.40**	**12.35**	**12.90**	**13.32**

Packed one in a box

BODY STRAP

One inch, Plain, Black Harness Leather Strap. Wrought Steel, Nickel Plated Bells. Assorted sizes

								Per Strap	
No. 1808—33 Bells	Size of Bells, Inches	1	1¼	1½	1¾	1½	1¾	$3.06	**$5.00**
	Number of Bells.	10	8	8	4	2	1		

Packed one in a box.

IMPROVED SWEDISH

Strap 18 inches long, consisting of 4 Bells—2 No. 07, 2 inches; and 2 No. 011, 2½ inches.

	Per Strap	
No. 0469—Wrought Brass, Polished	$4.80	**$5.50**

Packed one in a box.

IMPROVED SWEDISH

Strap 26 inches long, consisting of 6 Bells—2 No 07 2 inches 2 No. 09, 2¼ inches; and 2 No. 011, 2½ inches

	Per Strap	
No. 0481½—Wrought Brass, Polished	$6.06	**$7.42**

Packed one in a box.

CHIMES

BOTTOM SHAFT

DOME

Made from Wrought Steel Enameled Steel Strap.

Per Pair

No. 1174—Nickel Plated $3.50

GRADUATED BAND

Made from Wrought Brass. Enameled Steel Strap.

Per Pair

No. 60½—Nickel Plated. . . . . $ .85

Packed one set in a box.

BEADED GONG

Made from Wrought Steel. Enameled Steel Strap.

Per Pair

No. 010—Rolled Nickel Finish. $1.50

Packed one set in a box.

TOP SHAFT

DOME

Made from Wrought Steel. Enameled Steel Strap.

Per Pair

No. 1178—Nickel Plated $1.20

GRADUATED CUP

Made from Wrought Steel. Enameled Steel Strap.

Per Pair

No. 1135—Nickel Plated. $2.20

Packed one set in a box.

GRADUATED BAND

Made from Wrought Brass. Nickel Plated Strap

Per Pair

No. 1147—Nickel Plated 84.20

Packed one set in a box.

No 108.

RUSSIAN SADDLE

No. 108—Nickel Plated. . . . . Each $3.20

STAMPED BRASS BELLS

No. 166—Nickel Plated. . . . . Each $5.00

Packed one in a box

No. 166.

TYPE M ALAMO KEROSENE ENGINES
MAROON LINE

3½ H. P. Kerosene Engine.

The increased cost of gasoline and the non-production of distillate has created a demand for an engine which will successfully operate on cheaper fuel, such as kerosene. This demand has led us to develop a kerosene engine which has spoken for itself like all other established products of this company, namely, by seventeen years of engine experience.

The kerosene engine we here offer must not be confused or compared with the ordinary kerosene engine that is found on the market, as we have spent large sums for research and experimental work, therefore a product of scientific and basic principles only is represented. We offer you an engine that has perfect combustion, therefore almost entirely eliminating the smoke and obnoxious gas resulting from improperly designed and constructed kerosene engines.

Simplicity is the next important item for thorough consideration, which is best illustrated by stating that our kerosene engine after put in operation is entirely automatic, or self-regulating. Fuel and air are drawn into the engine at proper proportion, varying, of course, to a weak or rich mixture as required by load conditions. The water spray necessary for the successful operation of any kerosene engine is also in this case automatically controlled, and is supplied only at times when needed for heavy engine loads. Designed to burn kerosene as successfully as it does gasoline and distillate.

3½ H. P. Kerosene Engine—Specifications and Equipment

Approximate shipping weight crated, domestic, lbs.	550
Approximate shipping weight boxed, export, lbs.	700
Cubic feet boxed, export	23
Speed, R. P. M.	410
Floor space, inch	28x40
Diameter of pulley, inch	8
Face of pulley, inch	4
Size of crank shaft, inch	1¼
Size of exhaust pipe, inch	1½

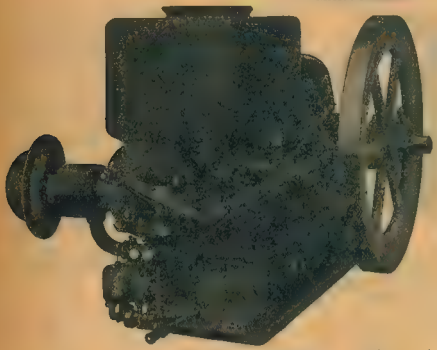
3½ H. P. kerosene engines are regularly equipped without extra charge, with oscillating magneto, muffler, solid iron pulley, wrenches, oilers, oil can and sample can of gas engine oil.

FRICTION CLUTCHES WITH PULLEYS FOR ALAMO GASOLINE AND KEROSENE ENGINES

To engage shaft of engine only.

For 3½ Horsepower Engines				
Size of pulley, inch	8x4	10x4	12x4	14x4
Size of shaft, inch	1½	1½	1½	1½
Shipping weight each, lbs.	50	60	65	70
Each				
For 4½ Horsepower Engines				
Size of pulley, inch	10x6	12x6	14x6	16x6
Size of shaft, inch	1¾	1¾	1¾	1¾
Shipping weight each, lbs.	60	65	70	75
Each				
For 6½ Horsepower Engines				
Size of pulley, inch	12x6	14x6	16x6	18x6
Size of shaft, inch	2	2	2	2
Shipping weight each, lbs.	70	70	80	90
Each				
For 9 Horsepower Engines				
Size of pulley, inch	18x8	20x8	22x8	24x8
Size of shaft, inch	2½	2½	2½	2½
Shipping weight each, lbs.	130	135	140	150
Each				
For 12 and 15 Horsepower Engines				
Size of pulley, inch	20x10	22x10	24x10	26x10
Size of shaft, inch	3	3	3	3
Shipping weight each, lbs.	155	165	170	180
Each				

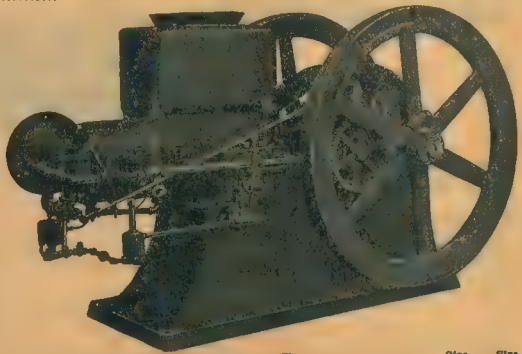
TYPE M ALAMO KEROSENE ENGINES
MAROON LINE



4½ and 6½ H. P. Kerosene Engine

4½ H. P. stationary and portable engines are regularly equipped without extra charge, with oscillating magneto, solid iron pulley, muffler, wrenches, oilers, oil can and sample can of gas engine oil. 6½ H. P. stationary engines are regularly equipped, without extra charge, with oscillating magnetos, muffler, wrenches, oilers, oil can and sample can of gas engine oil. Clutch pulley furnished at an extra cost.

Style of engine	Shipping Weight in pounds crated domestic	boxed export	Cubic feet boxed export	Speed R.P.M.	Floor space in inches	Size of pulley diam	face	Size of crank shaft	Size of exhaust pipe
4½ H. P. stationary	900	1100	35	395	34x48	10	6	1¾	2
6½ H. P. stationary	1400	1650	48	370	35x57	12	6	2	2½



9, 12, 15 H. P. Kerosene Engine

9, 12 and 15 H. P. stationary engines are regularly equipped, without extra charge, with oscillating magneto, muffler, wrenches, oilers, oil can and sample can of gas engine oil. The 9 H. P. stationary has fuel tank in base of engine; the 12 and 15 H. P. stationary are supplied with 60-gallon outside fuel tank.

Style of engine	Shipping Weight in pounds crated domestic	boxed export	Cubic feet boxed export	Speed R P M	Floor space in inches	Size of pulley diam	face	Size of crank shaft	Size of exhaust pipe
9 H. P. stationary	2200	2550	80	310	41x68	18	8	2½	2½
12 H. P. stationary	3000	3400	110	290	48x76	20	10	3	2½
15 H. P. stationary	3400	3800	130	290	48x76	22	10	3	2½

RAZORS

"UNIVERSAL"

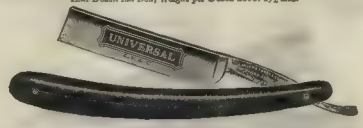
Forged from the Finest Quality English High Carbon Steel, Uniformly Hardened and Tempered. Exact Sharpened and Hand Honed; Perfect in Quality and Workmanship

Per Dozen

No. 222—⅝ in. Blade, **Square Point,** Hollow Ground, Polished and Etched; Black Rubber Handle..... .....$21 00
Half-Dozen in a Box; Weight per Dozen about 2 Lbs.

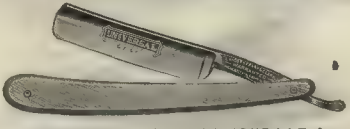
Per Dozen

No. 228—⅝ in. Blade, **Round Point,** Hollow Ground, Polished and Etched, Flat Red Celluloid Handle. $24.00
Half-Dozen ina Box; Weight per Dozen about 2½ Lbs.



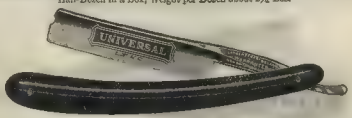
Per Dozen

No. 243—⅝ in. Blade, **Square Point,** Hollow Ground, Polished and Etched; Black Rubber Handle $27 00
Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.



Per Dozen

No. 295 ⅝ in. Blade, **Square Point,** Three-Quarter Hollow Ground, Crocus Polished and Gold Etched; Flat Ivoroy White Handle... ..... $40 00
Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.



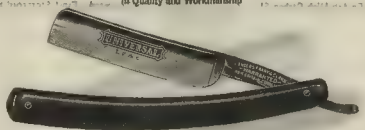
Per Dozen

No. 334—⅝ in. Blade, **Hollow Point,** Full Hollow Ground, Crocus Polished and Gold Etched; Black Rubber Handle..... .....$40.00
Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.

RAZORS

"UNIVERSAL"

Forged from the Finest Quality English High Carbon Steel, Uniformly Hardened and Tempered. Exact Grinding, Sharpened and Hand Honed; Perfect in Quality and Workmanship

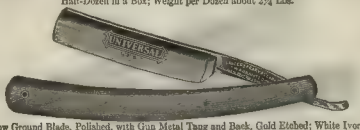


Full Hollow Ground Blade, Polished and Gold Etched; Gun Metal Back and Tang; Oval Black Ivory Handle

Per Dozen

No. 340½—1/8 in. Blade, **Barber Point**..... $42.00
No. 340½—⅝ in. Blade, **Barber Point**..... 42.00

Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.

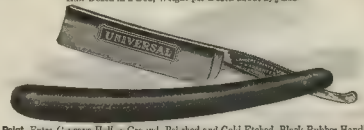


Full Hollow Ground Blade, Polished, with Gun Metal Tang and Back, Gold Etched; White Ivory Handle

Per Dozen

No. 346½—1/8 in. Blade, **Barber Point**..... $42.00
No. 345½—⅝ in. Blade, **Barber Point**..... 42.00

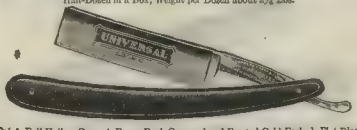
Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.



per Dozen

No. 336—⅝ in. Blade, **Square Point**, Extra Concave Hollow Ground, Polished and Gold Etched, Black Rubber Handle.. ...$42.00

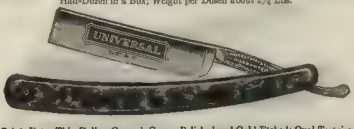
Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.



Per Dozen

No. 324—⅝ in. Blade, **Square Point**, Full Hollow Ground, Fancy Back Crocused and Frosted Gold Etched; Flat Black Rubber Handle.....$45.00

Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.



Per Dozen

No. 347—⅝ in. Blade, **Barber's Point**, Extra Thin Hollow Ground, Crocus Polished and Gold Etched; Oval Tortoise Shell Handle..... ....$48.00

Half-Dozen in a Box; Weight per Dozen about 2¼ Lbs.

GUN OIL

THREE-IN-ONE

An Oil that Lubricates, Cleans and Prevents Rust; Will not Corrode or Gum; Suitable for all kinds of Light and Fine Machinery.

	Per Dozen
No. 1 Small Size Bottles; Weight per Dozen Bottles, 3½ Lbs.	$1 80
No. 3—Large Size Bottles; Weight per Dozen Bottles, 6¾ Lbs.	3.00
No. 6—Factory Size Bottles; Weight per Dozen Bottles, 17 Lbs.	6.00

No. 1, Two Dozen; Nos 3 and 8, One Dozen in a Box

Put up in Patent Screw Top Oil Cans which have a Small Cap which Screws on the end of spout and prevents leakage.

	Per Dozen Cans
No. 3½—Cans; Weight per Dozen Cans, 7 Lbs.	$4.00

One Dozen Cans in a Box

MANY-USE

A Light, Thin Oil; Free from Acids; Good Covering Qualities; Will not Gum and is free from Kerosene; Cleans and Polishes Thoroughly and Quickly.

	Per Dozen
No. 1M—1 Ounce Bottles; Weight per Dozen Bottles, 3½ Lbs.	$1.80

One Dozen in a Box

Put up in **Patented Cans,** with Ball-Bearing Adjustable Spout

	Per Dozen Cans
No. 2M—2 Ounce Cans; Weight per Dozen Cans, 4 Lbs.	$3.00
No. 3M—3 Ounce Cans; Weight per Dozen Cans, 6½ Lbs.	4 05

One Dozen Cans in a Box

REM-OIL

A Perfect Lubricating Oil, Powerful Powder Solvent and Durable Rust Preventive. Cannot Gum.

	Per Dozen
No. 85—2½ Ounce Bottles	$3.70

One Dozen in a Box; Weight 6 Lbs.

CRYSTAL CLEANER

For Dissolving the Copper and Nickel Foiling in Rifles without injury to the Barrels. Full Directions Furnished.

	Per Dozen
No. CC—3½ Ounce Bottles	$3.00

One Dozen in a Box; Weight 7¾ Lbs.

GUN GREASE

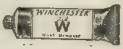
WINCHESTER

For Cleaning and Preventing Firearms and Bright Metal of Any Kind from Rust

	Per Dozen
Winchester Gun Grease—In Collapsible Tubes	$1 80

One Dozen in a Box; Weight 1¾ Lbs. per Box

RUST REMOVER



WINCHESTER

For Removing Rust from the Bores of All Kinds of Firearms and from Metallic Instruments

	Per Dozen
Winchester Rust Remover—In Collapsible Tubes	$3.00

One Dozen in a Box; Weight 2¾ Lbs. per Dozen

GUN OIL

WINCHESTER GUN OIL

Specially prepared for Lubricating the Lock Mechanism of Fire-arms. It is an Oil Preparation of Medium Thickness containing no harmful ingredients. No Acids, no Alkali and absolutely no Grease are used in its manufacture. It will Never Dry Out, Gum or Cake. It will not become rancid in hot weather, nor thicken in extreme cold.

	Per Dozen
No. 1W—1 Ounce Bottles	$1.80
One Dozen in Display Carton; Weight per Dozen 3¼ Lbs.	
No. 3½W—3½ Ounce Cans	3 00
One Dozen in Display Box; Weight per Dozen 6¾ Lbs.	

WINCHESTER GENERAL UTILITY OIL

A Light, Clean, Odorless, Pure Mineral Oil of High Quality. It Cuts and Improves everything that needs Lubrication, Protection or Cleaning regardless of climate or condition of weather. It does not Gum, become Rancid or Dry Out. It contains neither Grease nor Acid and collects no Dirt. Flows Freely and is Easily Applied.

	Per Dozen
No. 1U—1 Ounce Bottles	$1 80
One Dozen in a Carton; Weight per Dozen 3¼ Lbs.	
No. 3½U—3½ Ounce Cans	3 00
One Dozen in a Box; Weight per Dozen 6¾ Lbs.	

Bottle

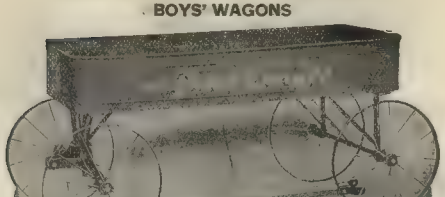
NYOIL

Four Oils Combined; The Most Highly Refined Oil that Has Yet Been Produced

Will Not Gum or Chill; For Lubricating, Cleaning, Polishing and Preventing Rust on Fire-Arms, Typewriters, Talking Machines, Sewing Machines, Tools, Magnetos, Musical Instruments, Locks, Adding Machines, Light Machinery, Etc.

	Per Dozen
No. 1N—1 Ounce Bottles; One Dozen in a Carton; Weight per Dozen, 3½ Lbs.	$1 80
No. 3N—3 Ounce Bottles; One Dozen in a Carton; Weight per Dozen, 7 Lbs.	3 60
No. 3½N—3½ Ounce Cans; One Dozen in a Carton; Weight per Dozen, 8¾ Lbs.	3 00

BOYS' WAGONS

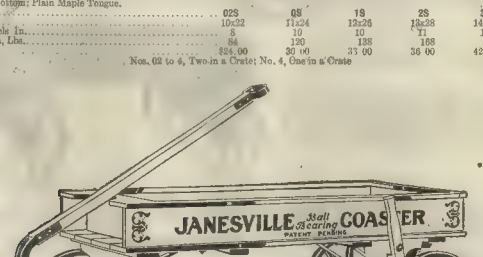


"EXPRESS"; All Steel

Extra Heavy All Steel Gearing, Steel Tongue Attachments; Sheet Steel Body with Corrugation About Two Inches from Top and Bottom; Bright Red Bicycle Finish Outside and Painted Bottom, All Gearing a Black Enamel Finish; Wheels have Heavy Spokes. Name is put on with Gilt Transfer Selected Spruce Bottom; Plain Maple Tongue.

Nos.	0 2S	0S	1S	2S	3S	4S
Size of Body, In.	10x22	11x24	12x26	13x28	14x30	15x32
Diameter of Wheels, In.	8	10	10	11	11	11
Weight per Dozen, Lbs.	84	120	138	168	186	204
Per Dozen	$24 00	30 00	33 00	36 00	42 00	48 00

Nos. 02 to 4, Two in a Crate; No. 4, One in a Crate



JANESVILLE BALL BEARING COASTER WAGONS

Constructed throughout of the Best Materials, Selected White Ash being used in Bodies and Bolsters. Wheels are made of Seasoned Hardwood and are of Special Design. Each Spoke is made with Tenon and the Rims are Drilled for the Tenon on Spoke to Fit properly. Wheels have ¾x1¼ in. Steel Tire and Steel Flanges are fastened to wheels with 8 rivets. Each rivet goes through the spoke. Wheels are fitted with Special Design of Ball Bearings. They are the Regular Annexable Cup and Cone type with ⅜-inch Balls, and the Balls, Cups and Cones are assembled as a unit with the wheel. The wheel can be removed without the Balls or Bearings coming out.

Axles are made of ¾ in. Cold Rolled Steel.

Both Front and Back Bolsters are Strongly Braced with ¾x1¾ in. Steel Braces and the Front Bolster is also fitted with an Extra Hound Brace. The Bolster Plates and the Front Bolster Braces are so made as to fit around the ½-in. Cold Rolled King Bolt.

	Per Dozen
No. 100—Size of Body 32x14 in.; Wheels 10 in. High; Weight per Dozen, about 420 Lbs.	$ 96 00
No. 200—Size of Body 36x16 in.; Wheels 10 in. High; Weight per Dozen about 480 Lbs.	108 00
No. 300—Size of Body 40x16 in.; Wheels 10 in. High; Weight per Dozen, about 540 Lbs.	120 00

Packed Two in a Crate

BOYS' WAGONS

AUTO-WHEEL COASTER

Removable Body; Roller-Bearing, Speedy, Sturdy and Durable

No. 0

The Auto-Wheel Coaster Wheel is of Standard Automobile type. The Hub and Bushings are of Cold Rolled Pressed Steel The Spokes are of well seasoned Second-Growth White Ash, Ovaled, Mitered and Machine Riveted in Hub, with Bushing turned over ends. The Felloe is ½x¾ inch, with Tire ½x¾ inch flat steel, electrically welded and shrunk on felloe by hydraulic pressure.

No. 0—Lettered "Buffalo," Body Not Removable, Bolster Braces omitted

The Bearings are hard-drawn Bessemer Steel Rollers, running on cold-drawn, absolutely true Steel Axles. A special designed cap protects hub and bearings from dust and grit, and a special washer prevents sliding out and consequent wear on roller bearings. Cotter pins are used instead of nuts because they are equally efficient and more easily replaced if lost.

Nos. 1, 2, 3, 4

Bolsters are of Seasoned Hard Maple and Handsomely Shaped and Ironed; ½ in. King Bolt.

Bed of Well-Seasoned, Second Growth White Ash, finished in the Natural Grain, filled and varnished with special wear-resisting compound.

Box mortised, glued and nailed to insure strong, durable construction and ornamented in Bright Vermilion, giving an unusual attractive body The whose body is thoroughly braced and easily removed.

Wheels are finished with Two Coats of Bright Vermilion Striped in Black and Varnished, Iron Parts Japanned and Baked.

Nos.	0	1	2	3	4
Size Box	12x38	14x33	14x34	16x38	18x40
Diameter Wheels, In.	8	8	10	10	12
Weight Each, Lbs.	20	25	30	35	40
Per Dozen	$56 00	66 00	72 00	80.00	90.00

Nos. 0 and 1 Packed Two in a Crate Balance One in a Crate

BUFFALO FARM WAGONS

Gears Painted Red, Striped with Black, Body and Seat Green, Striped with Yellow

Modeled closely after Regular Farm Wagon; Sides and End Gates, or Entire Body Easily Taken Off; Removable Seat; Gears and Wheels Extra Heavy, Staunch Hardwood Standards; Extra Long Hardwood Reach, permits of adjusting length of wagon; Straight Hardwood Tongue with Cross Pin, ⅞ in. Machine Turned Steel Axles; Steel Roller Bearings; 26 in. Tread; Regular Screen Pattern Wood Wheels, with 2¼ in. Steel Tires. In every respect a Good and Substantial Wagon. Workmanship and Finish unsurpassed.

No.	8
Size of Body, In	18x36
Diameter Wheels, In	16 Front, 20 Rear
Weight Each, Lbs.	720
Per Dozen	$144.00

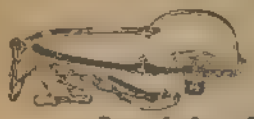
Packed One in a Crate

GAME TRAPS

VICTOR

Similar in pattern to the genuine Newhouse, though lighter in construction. Suitable for farmers and trappers of small game. Steel wire chain and ring.

SINGLE SPRING



Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
V0	Rat	3½	5	$ 4.25
V1	Muskrat	4	7¼	5.00
V1½	Mink or skunk	4⅝	11¼	7.50

DOUBLE SPRING

Nos. V2, V3 and V4.

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
V2	Fox	4⅝	14½	$10.50
V3	Otter or coyote	5½	22¼	14.00
V4	Beaver	5⅞	25	16 50

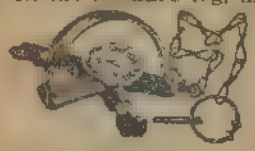
Nos. V0 to V1½, one dozen in box; balance loose.

Victor Giant is similar in pattern to Victor, except the Giant jaws catch far up on the animal's leg, the lightning-action spring rising high on the jaws. The pan and dog are wider and heavier, the chain larger and the spring faster.

No.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
VG1	Muskrat	4⅞	8[illegible]	$ 6.50

ONEIDA JUMP

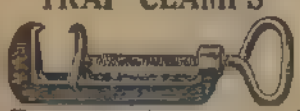
Sheet steel. Tempered spring. Steel wire chain and ring. Traps lie flat on the ground and can be secreted in runways of animals. Jaws have wide meeting faces, which prevent breaking animal's leg. Construction of springs causes trap to jump up and take a high grip on the animal's leg, instead of the foot.



Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
J0	Rat or gopher	4	5½	$ 4.25
J1	Muskrat	4¾	8	5.00
J1½	Mink or skunk	5¼	9½	7 50
J2	Fox or raccoon	5½	14¼	10 50
J3	Badger or coyote	6½	22	14 00
J4	Otter or coyote	7¼	27¾	16 50

Nos. J0 to J1½, one dozen in box, balance, loose.

TRAP CLAMPS



Malleable iron. For setting large traps. By placing one on each spring large traps are easily and quickly set with a few turns of the thumb screw.

Nos.	N4	N5	N6
Size of opening, inch	2¼	4⅜	5⅝
Weight per dozen, lbs	2¾	4½	23½
Per dozen	$4.00	10.00	15.00

NEWHOUSE

Highest grade. Best crucible steel springs. Stock is a mixture of special Norway iron. Chain flat cut steel, smooth and flexible. Fully guaranteed. Used by professional trappers for catching all fur-bearing animals.

SINGLE SPRING

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
N0	Rat and gopher	3½	7½	$ 6.00
N1	Muskrat	4	10	7.50
N1½	Mink or skunk	4⅞	14½	10.00

DOUBLE SPIRNG

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
N2	Fox	4⅛	18	15 00
N3	Otter or coyote	5½	28½	20.00
N4	Beaver	6½	33¼	25 00
N4½	Wolf	8¾	92	80.00

N1, one dozen in box; balance, loose.

BEAR

Double spring, with toothed jaws and heavy chain.

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
N5	Common black bear	11¾	234	$190.00
N6	Grizzly bear	16	522	425.00

DEER OR BEAR, WITH OFFSET TOOTHED JAW

Heavy double spring. ⅜-inch offset jaw allows spring to rise, and prevents severing of the animal's leg.

Nos.	Kind	Spread of jaw, inch	Weight per doz, lbs	Per dozen
14	Deer	6½	40	$ 30.00
15	Bear	11¾	234	190.00

JUMP TRAP SETTER

Quickly and easily applied. With one turn of the wrist the spring is brought down, the jaws opened and the trap set.

Size, inch	9
Weight per dozen, lbs	4
Per dozen	$3.00

GOPHER TRAPS

MACABEE

Green enameled steel spring wire. Two prongs. Tinned steel lever. Has large catching surface.

No.	4
Length over all, inch	6
Weight per dozen, lbs	2½
Per dozen	$3.50

Two dozen in box.

WARDS PATTERN

Coppered steel spring brass jaws. Wrought iron bar.

No.	100
Length over all, inch	5½
Spread at point, inch	1⅝
Weight per dozen, lbs	3
Per dozen	$3.50

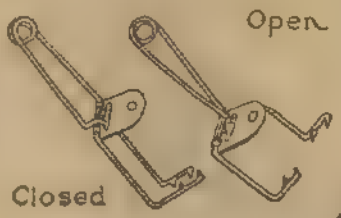
IMPROVED C. V.

Bright steel spring wire, 4 sharp pointed prongs. Double rings reinforced at top and bottom. Tinned steel lever.

No.	1
Length over all, inch	6
Height of ring, inch	3
Weight per dozen, lbs	3¼
Per dozen	$5.00

Above, one dozen in box.

ROY



Heavy spring wire. Japanned black. Sets automatically by pressing the wires together behind the trigger, therefore it is not necessary to touch the jaws or the dead animal.

No.	Roy
Length over all, inch	8¼
Net weight per dozen, lbs	2
Per dozen	$3.00

One dozen in a carton. Three gross in a case.

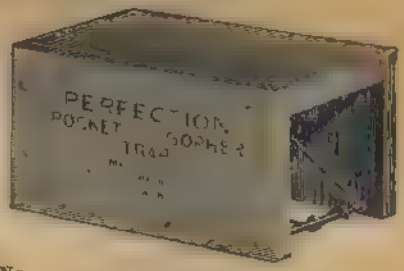
NEWHOUSE

Natural finish spring steel. 3 prongs. Steel wire ring and trigger. Flat steel lever.

No.	5
Length over all, inch	6
Height of ring, inch	3
Weight per dozen, lbs	3
Per dozen	$3.00

One dozen in box

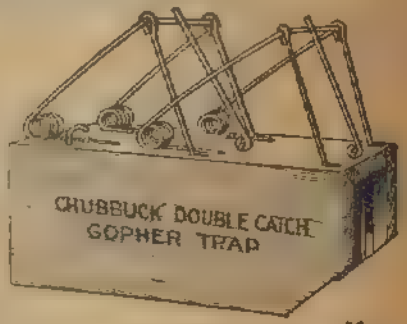
BOX



Wood frame, painted red. Coppered wire spring. Galvanized wire catch. Flat galvanized trigger. Has ½-inch hole in closed end.

No.	44
Size frame, inch	6½x3¾x3
Weight per dozen, lbs	5½
Per dozen	$4.00

CHUBBUCK DOUBLE SPRING



Wood box, painted green two coppered wire springs.

No.	50
Size, inch	6¾x3¾x3
Weight per dozen, lbs	7
Per dozen	$9 00

One-half dozen in a case.

MOLE TRAPS

Malleable iron, japanned. No. 4 gauge steel wire spring and trigger. Steel lever. Five teeth in each jaw.

No.	11
Width, inch	5½
Height, inch	8
Weight per dozen lbs	18
Per dozen	$18 00

One-twelfth dozen in box

REDDICKS

Tinned steel frame, japanned steel coil spring. Six steel prongs 5 inches long. Tinned steel lever.

No.	12
Length over all, inch	24
Width, inch	4
Weight per dozen, lbs	30
Per dozen	$15.00

One-half dozen in crate.

SPRING BALANCES

STRAIGHT

Japanned steel case. Polished brass face. Stamped figures. Tinned steel hook and ring.

LIGHT

Nos.	3	51
Capacity, lbs	25	50
Graduation, lbs	½	1
Size face, inch	4¾x1½	6x1⅝
Length over all, inch	8¼	10
Weight per dozen, lbs	2⅜	4⅜
Per dozen	$2.25	4.50

HEAVY

No.	81
Capacity, lbs	25
Graduation, lbs	½
Size of face, inch	6½x1¾
Length over all, inch	10¼
Weight per dozen, lbs	6
Per dozen	$6.00

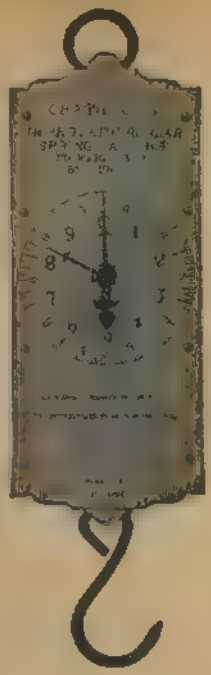
No.	84
Capacity, lbs	50
Graduation, lbs	1
Size of face, inch	8¼x2¼
Length over all, inch	12½
Weight per dozen, lbs	11
Per dozen	$12 00

EXTRA HEAVY

Nos.	86	87	88 A
Capacity, lbs	80	100	150
Graduation, lbs	1	1	1
Size of face, inch	10¼x2½	12¾x3	16½x3½
Length, inch	15	18	.....
Weight dozen, lbs	16	40	52
Per dozen	$36.00	63.00	90.00

Nos. 3, 51, 81 and 82, one-half dozen in a box. Nos. 84, 86 and 87, one-quarter dozen in a box, and No. 88A one each in a box.

Note—Nos. 3 to 86 not legal for use in trade. For household purposes only. Nos. 87 and 88A pass legal inspection.



AUTOMATIC MILK AND CREAM

This spring balance is intended especially for use in connection with the Babcock test for keeping records of the quantity of milk from individual cows, together with the per cent fat, so as to calculate the butter yield. The scale is provided with a loose pointer, which, by means of a thumb screw, may be set anywhere on the dial to offset the weight of the milk pail, so this does not have to be deducted from the reading.

No. 260MD—30-lb scale, weighing by 1-20 lbs.
Each $8.00

No. 270MD—60-lb scale, weighing by 1-10 lbs.
Each $10.00

No. 280MD—120-lb scale, weighing by 1-5 lbs.
Each $15.00

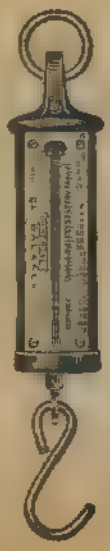
One in a box.

STEEL KING

All steel, japanned case. Long brass dial. Japanned markings, very distinct. Spring cannot be strained beyond its capacity. Scale can be quickly adjusted by removing cap on top and turning screw slightly.

Heavy

No.	150
Capacity, lbs	150
Graduation, lbs	1
Size of case, inch	6½x1½
Length over all, inch	.....
Weight each, lbs	4½
Each	$6.75



UNIVERSAL

Warranted

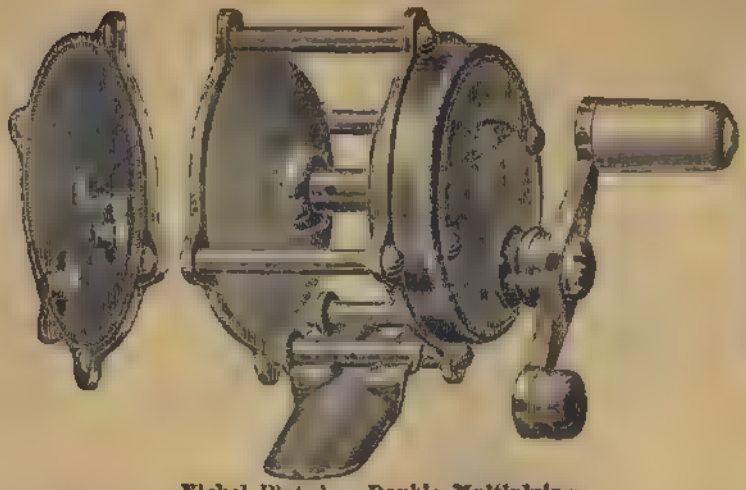
Tubular pattern. Made of steel throughout. Heavily nickel plated front with adjustment device.

No.	2022
Capacity, lbs	200
Graduation, lbs	2
Weight each, lbs	6
Each	$7.50

Note—Ice balances pass legal inspection.

FISHING REELS

DOUBLE MULTIPLYING

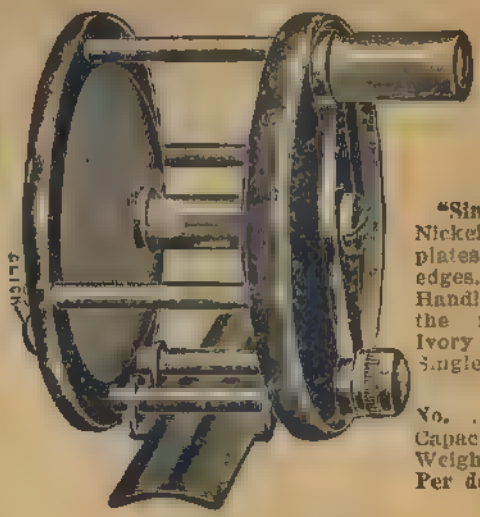


Nickel Plated.. Double Multiplying.

"Atlas"—Raised screw pillar. Sliding click and drag. Balanced handle.

No. 125—Capacity, yards.....	40	60	80	100	150
Weight per dozen, lbs.....	4	4½	5¼	6½	7½
Per dozen	$27.00	30 00	32.40	36.00	40.00

SINGLE ACTING



"Single Action Click"—Nickel plated. Rubber plates with metal bound edges. Adjustable click. Handle revolving within the metal raised dial. Ivory balanced handle. Single action.

No.	323
Capacity, yards	60
Weight dozen, lbs...	3
Per dozen	$18.00

SINGLE ACTING

PFLEUGERS GOLDEN WEST

Nickel silver, satin finish. Hard rubber discs interleaved with aluminum. Adjustable back, sliding click. Balanced handle.

No.	1131
Capacity, yards	80
Weight, ozs	12
Each	$18 00

Each reel in velvet lined display case with Marvel oil can enclosed.

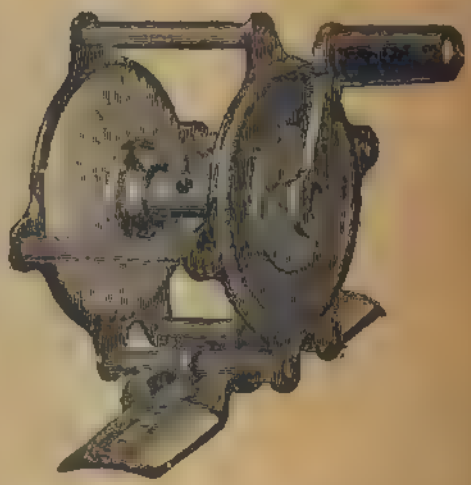
MEISSELBACH RAINBOW

A new reel modeled after some of the fine imported hand made reels. Single action. Is taken apart in a second without tools. Heavily built. Gun metal finish.

Nos.	627	631
Capacity, yards	40	60
Diameter of discs, inch.....	2⅞	3¼
Weight, ozs	3¼	4
Each	$7.50	9.00

All above, one in a box.

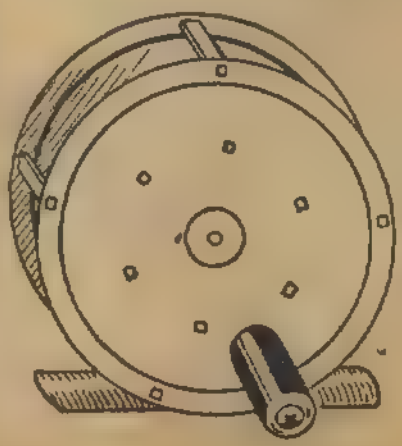
EXCEL



Nickel plated. Raised pillar. Single action, with click.

No. 110—			
Capacity, yards	25	40	60
Weight per dozen, lbs.....	1½	1¾	2
Per dozen	$9 50	11.00	13.00

One in a box



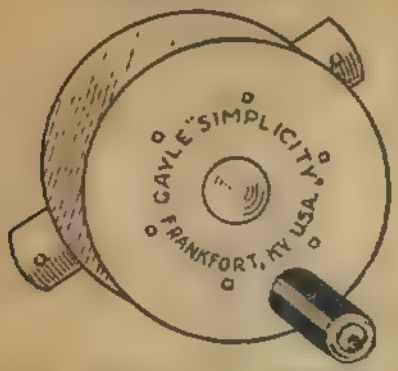
Cold rolled steel, nickel plated with adjustable click.

No.	106
Capacity, yards	40
Weight, lbs	2½
Per dozen	$0.50

One dozen in a box.

FISHING REELS

SINGLE ACTING



Cold rolled steel. Nickel plated. Fastens on side of rod.

No.	100
Capacity, yards	40
Weight, lbs	1½
Per dozen	$3.00

Three dozen in a carton

MONARCH

Full nickel plated. Free running with drag. Side plates are one piece of tempered brass, perforated and firmly riveted together to allow free ventilation, making the reel an excellent line dryer.

No.	1
Size, inch	4¾x1
Capacity, yards	150
Weight per dozen, lbs	8
Per dozen	$66.00

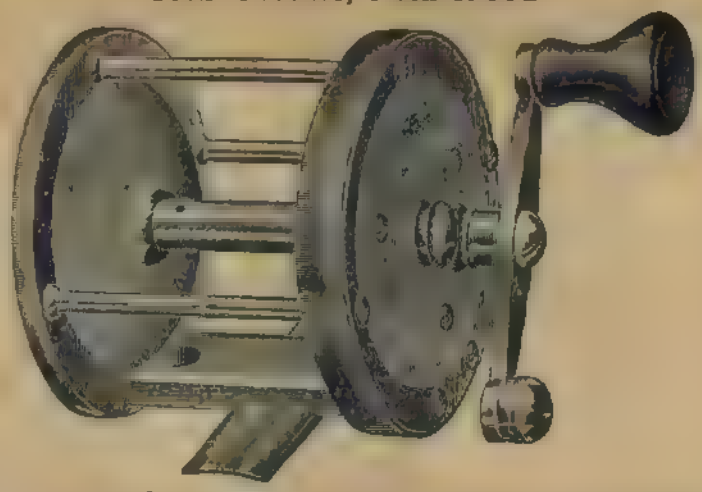
LIGHT WEIGHT TROUT

Gun metal finish. Very light, removable spool. Back sliding steel click and steel spindle.

Nos.	260 B	280 B	290 B
Size of spool, inch	¾x2¼	1x2¼	1x3
Capacity, yards	60	80	120
Weight per dozen about, lbs	4	4	4
Per dozen	$48.00	50.00	55.00

One in a box.

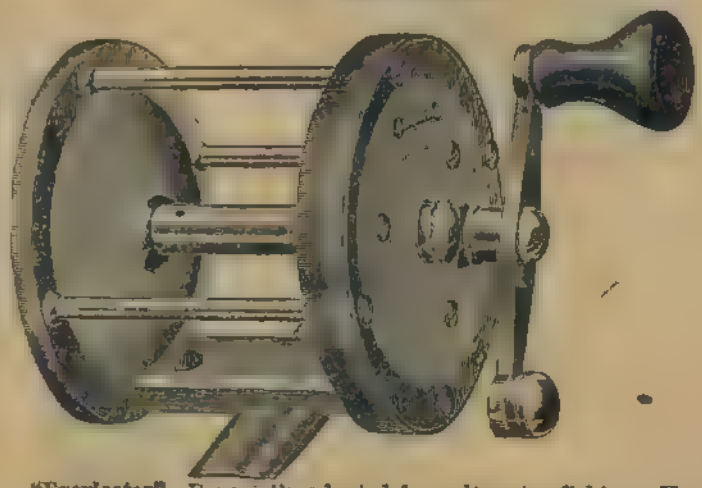
SURF CASTING, FREE SPOOL



"Interocean"—Generated spiral tooth gears. Hard rubber discs, reverse metal bound. Adjustable back sliding click. Front and back fancy oil cups, steel pivots, balanced crank with rubberoid handle. Tempered crucible steel clutch. To make reel free spool turn the crank a fraction of an inch backward. The clutch automatically takes hold when winding in.

	Full Nickel Plated			Nickel Silver	
Nos.	1817	1818	1819	1858	1859
Capacity, yards	210	250	300	250	300
Weight each, lbs	1	1¼	1¼	1¼	1¼
Each	$16 00	18 00	20.00	22 00	24 00

SURF CASTING
DOUBLE MULTIPLYING



"Everlaster"—Especially adapted for salt water fishing. Hard rubber discs; reverse metal bound; spiral tooth gears; front and back oil cups; balanced handle, rubberoid thumb piece; patent double brace flange washer; adjustable back sliding click and drag.

Steel Pivots

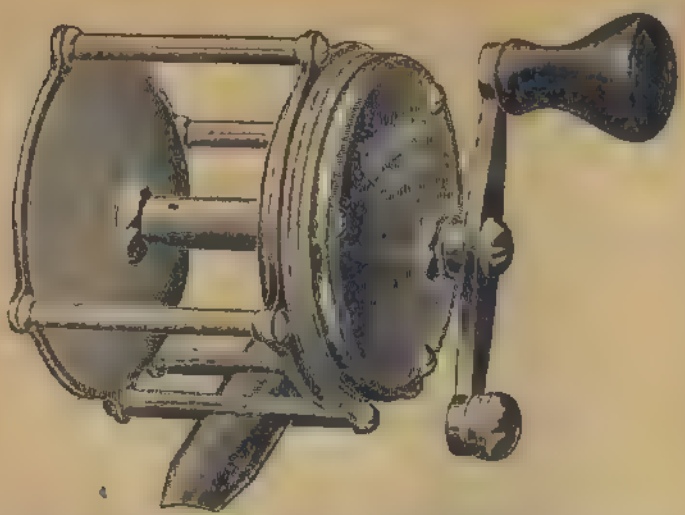
Nos.	X 56SP	X 57SP	X 58SP	X 59SP
Capacity, yards	150	200	250	300
Weight each, lbs	1	1	1¼	1¼
Each	$13.00	14.00	15.00	16.00

Brass Pivots

"Eclipse"—Hard rubber discs. Metal bound, brass pivots. Adjustable sliding click and drag.

Nos.	X 46	X 47	X 48	X 49
Capacity, yards	150	200	250	300
Weight each, lbs	¾	¾	1	1
Each	$12.00	13.00	14.00	15.00

FISHING REELS



"Mohawk"—For salt water fishing. Polished nickel plated brass screwed; raised pillars; balanced handle with rubberoid thumb piece; spiral tooth gears; patented double brace flange washer; bushed with oil cup on back plate; back sliding click and drag.

No. 125SW—Capacity, yards	150	200	250	300
Weight per dozen, lbs	11	12½	13½	14½
Each	$7.75	8.50	9.50	10.50

"Eureka"—No. 125—As No 125SW, but lighter.

Capacity, yards	150	200	250
Weight per dozen, lbs	9	11	13
Each	$5.50	6.20	7.00

All above, one in a box.

GOOD LUCK, WOOD

Suitable for sea fishing where heavy sinkers are required. Has an adjustable cone nut, which can be screwed on or off at will, without the aid of any tools

	Ball Bearing		
Nos.	BB5	BB6	BB7
Size, inch	5	6	7
Wgt ea, ozs	13	16	20
Each	$5 20	6.00	6.00

	Straight Spindle		
Nos.	SS5	SS6	SS7
Size, inch	5	6	7
Wgt ea, ozs	13	16	19
Each	$4.00	4.50	5.00

Above, one in a box.

WILDWOOD, WOOD

Made from the toughest wood, especially used in this reel. Spools cherry stained varnished, polished and brass brushed. Revolves on steel axle, with a shoulder to receive brass nut, preventing the binding of the spool.

No.	S18
Width of spool, inch	1⅛
Diameter of spool, inch	5⅛
Weight per dozen, about, lbs	9
Per dozen	$22.80

One in a box.

AUTOMATIC

MARTINS

Aluminum frame, satin finish. Working parts are made of nickel silver and hard brass. Automatic adjustable tension, low brake.

Nos.	1M	2M	3M	4M
Capacity, yards	25	30	50	75
Diameter spool, inch	2¾	2¾	2¾	3¼
Width spool, inch	⅝	⅞	⅞	1
Weight each, ozs	3½	10	10½	12
Each	$4 50	5.00	5.50	6.00

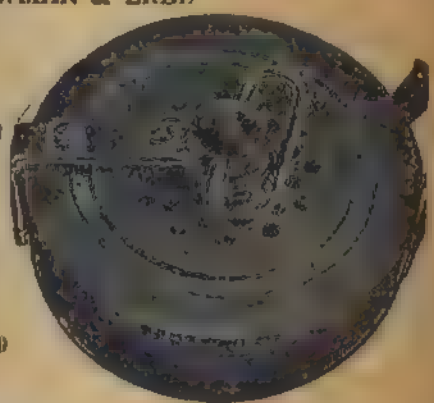
With Agate Line Protector

Same as above, except with agate line protector.

Nos.	1MP	2MP	3MP	4MP
Each	$5.50	6.00	6.50	7.00

YAWMAN & ERBE

COMBINATION



Made of aluminum, with tool steel bearings.

Style	A	B	C
Capacity spool, No. 5 silk, ft	125	300	600
Diam, in	2⅞	3⅝	4⅛
Wgt, ozs	7½	11	16
Each	$10.00	12.00	15.00

REGULAR

Made of aluminum, with tool steel bearings.

Nos.	1YE	2YE
Capacity spool, No. 5 silk, feet	70	150
Diameter, inch	3½	3⅞
Weight, ozs	8	12
Each	$9 00	10 00

PREMIER LEATHER THUMB BRAKES

For use on reels for salt water fishing. Pad made of selected soft, tough leather. Clasp is made of nickel silver and left open so that it can readily be clamped to the pillar of any size and kind of reel.

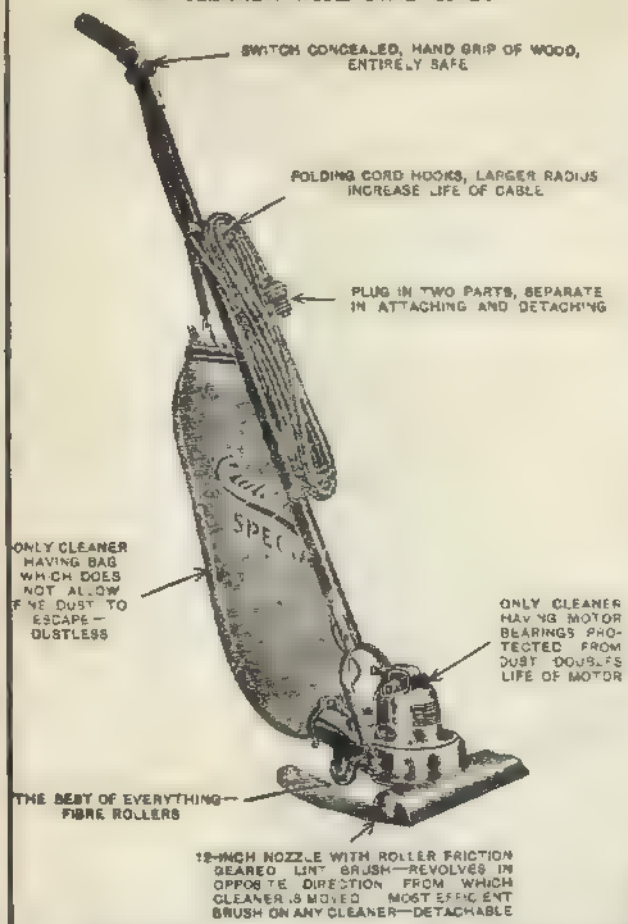
No. 142—Size, inch	1
Width, inch	1¾
Length, inch	1⅞
Per dozen	$6.00

No. 142—Size, in.	2	3
Width, inch	1¾	2
Length, inch	1⅝	2⅛
Per dozen	$8.00	10.00

ELECTRIC SUCTION CLEANERS

"CADILLAC SPECIAL"

"THE CLEANER WITH NINE LIVES"


SWITCH CONCEALED, HAND GRIP OF WOOD, ENTIRELY SAFE
FOLDING CORD HOOKS, LARGER RADIUS INCREASE LIFE OF CABLE
PLUG IN TWO PARTS, SEPARATE IN ATTACHING AND DETACHING
ONLY CLEANER HAVING BAG WHICH DOES NOT ALLOW FINE DUST TO ESCAPE—DUSTLESS
ONLY CLEANER HAVING MOTOR BEARINGS PROTECTED FROM DUST DOUBLES LIFE OF MOTOR
THE BEST OF EVERYTHING—FIBRE ROLLERS
12-INCH NOZZLE WITH ROLLER FRICTION GEARED LINT BRUSH—REVOLVES IN OPPOSITE DIRECTION FROM WHICH CLEANER IS MOVED—MOST EFFICIENT BRUSH ON ANY CLEANER—DETACHABLE

Dust-proof Bearings, Steel Fan, Ping Switch, Dustless Dirt Bag, and Slotted Nozzle. The Dust-proof Bearings Keep the Dirt from Grinding and Cutting the Bearings and Prevent Excessive Oil from Penetrating the Motor Parts. The Special Fan has Six Blades which are Sectional and Should a Blade be Broken, it can be Replaced Without Entailing the Expense of a New Fan. The Ping Switch Gives Instant Control of Motor. The Material in the Dustless Dirt Bag is Treated by the Howard Dustless Duster Process. The Slotted Nozzle Increases Efficiency in Picking up Thread, Lint, and Hair. Self-locking Handle Stop Allows the Adjusting of the Handle to Any Angle. Guaranteed for an Unlimited Period Against Any Original Defects Caused by Carelessness in Workmanship and Defects in Material.

Each

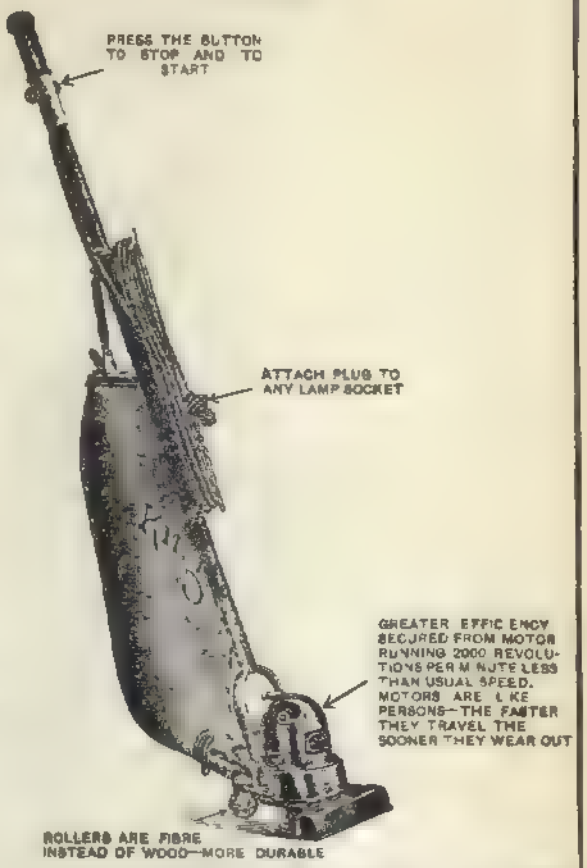
No. 2600—Model K **$71.00**

EXTRA ATTACHMENTS FOR No. 2600

1 Furniture and Mattress Nozzle
1 Wall or Floor Brush
1 Extension Handle
1 Blowing Nozzle, Radiator, and Edge Tool
1 Adapter
1 Hose Connection
1 Length—Covered Hose for Suction or Blowing

Per Set **$15.00** Complete

KING


PRESS THE BUTTON TO STOP AND TO START
ATTACH PLUG TO ANY LAMP SOCKET
GREATER EFFICIENCY SECURED FROM MOTOR RUNNING 2000 REVOLUTIONS PER MINUTE LESS THAN USUAL SPEED. MOTORS ARE LIKE PERSONS—THE FASTER THEY TRAVEL THE SOONER THEY WEAR OUT
ROLLERS ARE FIBRE INSTEAD OF WOOD—MORE DURABLE

Combines Efficiency, Durability, Strength, and Attractive Design. One-eighth Horse-power Motor. Roller Geared Revolving Brush for Ravelings and Lint. Same Can be Easily Detached from Nozzle. Switch is Fully Enclosed in Handle—No Knob to Break. Press Button to Start and Press it in the Opposite Direction to Stop. Dust Collector is Easily Attached and Detached from Machine and Permits Air to Percolate with Ease. Also Overcomes Back Pressure. Large, Open, Section Fan with Six Steel Blades. Parts can be Replaced, Saving Expense of Entire Fan if Broken. Ten-inch Nozzle. A 25-foot Gray Cord is Attached to Cleaner. The King can be Operated only on the Following Current: Alternating Current 60 Cycles, 110 to 120 Volts. Direct Current, 110 to 120 Volts. For Other Currents special Machines will be Furnished Without Extra Charge. Guaranteed Against Any Defects in Material or Workmanship.

Each

No. 517—King—Height, 7½ Ins. Weight, 8 Lbs. **$56.00**

EXTRA ATTACHMENTS FOR No. 517

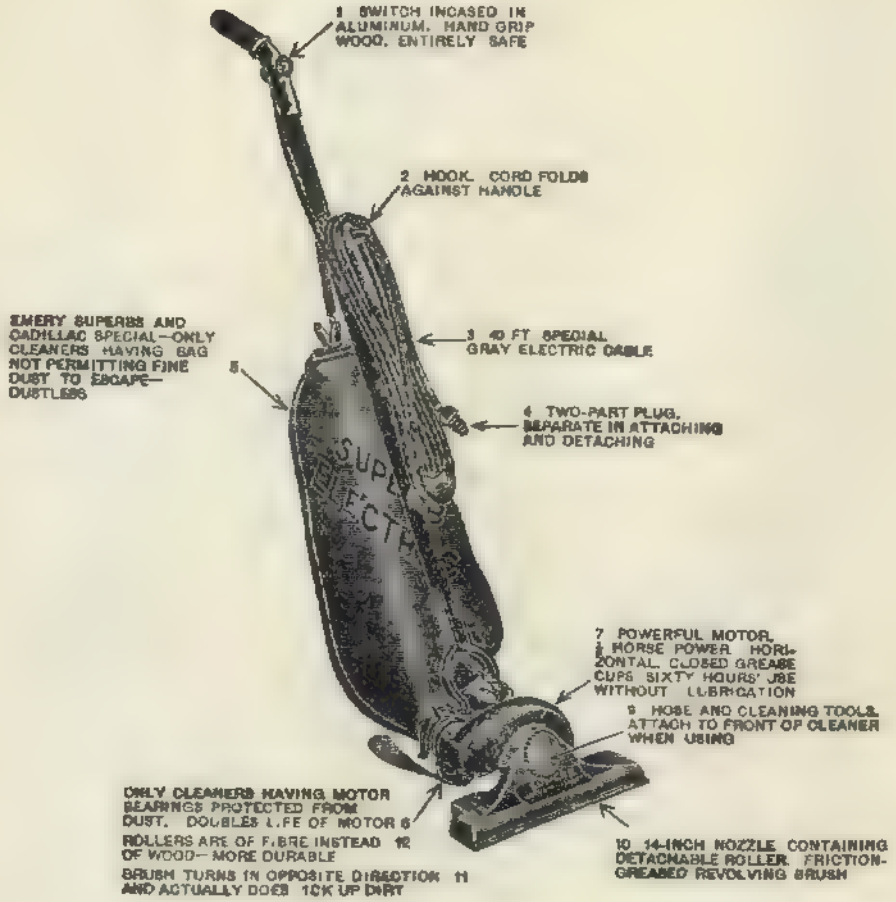
1 Length—Covered Hose for Suction or Blowing
1 Hose Connection
1 Adapter
1 Blowing Nozzle, Radiator, and Edge Tool
1 Wall or Floor Brush
1 Furniture and Mattress Nozzle
1 Extension Handle

Per Set **$16.00** Complete

Sold only in complete sets.

ELECTRIC CLEANERS

SUPERB


1 SWITCH INCASED IN ALUMINUM. HAND GRIP WOOD. ENTIRELY SAFE
2 HOOK. CORD FOLDS AGAINST HANDLE
3 40 FT SPECIAL GRAY ELECTRIC CABLE
4 TWO-PART PLUG. SEPARATE IN ATTACHING AND DETACHING
5 EMERY SUPERBS AND CADILLAC SPECIAL—ONLY CLEANERS HAVING BAG NOT PERMITTING FINE DUST TO ESCAPE—DUSTLESS
7 POWERFUL MOTOR, ½ HORSE POWER HORIZONTAL. CLOSED GREASE CUPS SIXTY HOURS' USE WITHOUT LUBRICATION
8 HOSE AND CLEANING TOOLS ATTACH TO FRONT OF CLEANER WHEN USING
9 ONLY CLEANERS HAVING MOTOR BEARINGS PROTECTED FROM DUST. DOUBLES LIFE OF MOTOR
ROLLERS ARE OF FIBRE INSTEAD OF WOOD—MORE DURABLE
BRUSH TURNS IN OPPOSITE DIRECTION AND ACTUALLY DOES PICK UP DIRT
10 14-INCH NOZZLE CONTAINING DETACHABLE ROLLER FRICTION-GREASED REVOLVING BRUSH

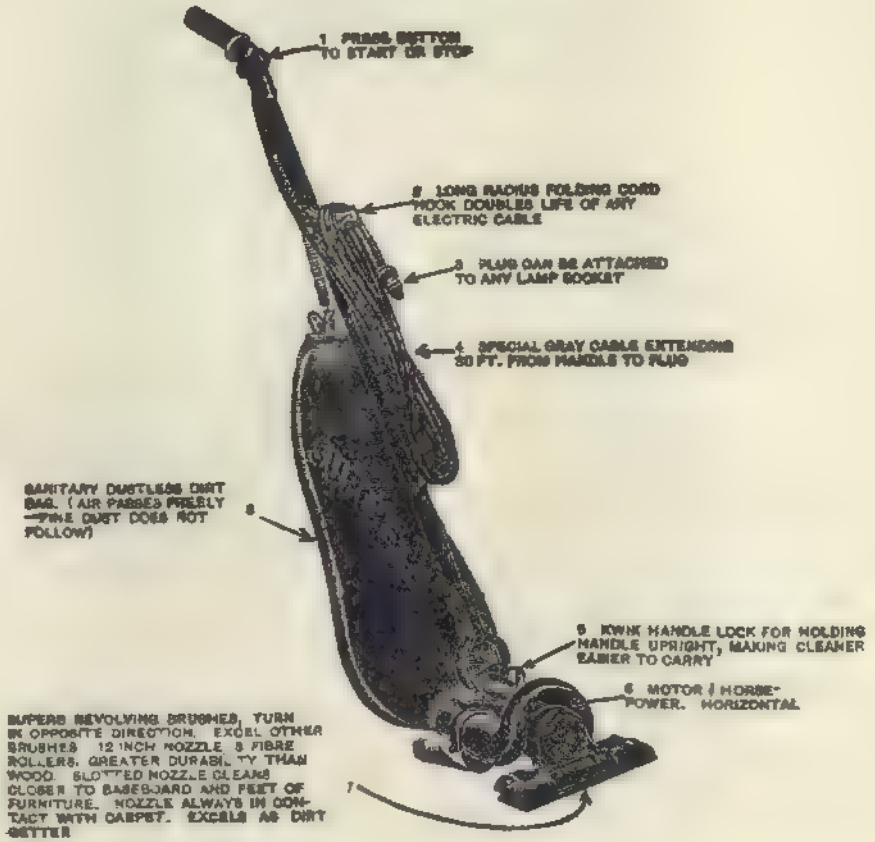
No. 4800—Large Type. For Churches and Large Homes . . . . . Each **$185.00**

EXTRA ATTACHMENTS

No. EA4800—For No. 4800 Electric Cleaner . . . . . Per Set **$18.00**

ELECTRIC CLEANERS

SUPERB JR.


1 PRESS BUTTON TO START OR STOP
2 LONG RADIUS FOLDING CORD HOOK DOUBLES LIFE OF ANY ELECTRIC CABLE
3 PLUG CAN BE ATTACHED TO ANY LAMP SOCKET
4 SPECIAL GRAY CABLE EXTENDING 30 FT. FROM HANDLE TO PLUG
SANITARY DUSTLESS DIRT BAG. (AIR PASSES FREELY —FINE DUST DOES NOT FOLLOW)
5 KINK HANDLE LOCK FOR HOLDING HANDLE UPRIGHT, MAKING CLEANER EASIER TO CARRY
6 MOTOR 1 HORSE-POWER. HORIZONTAL
SUPERB REVOLVING BRUSHES, TURN IN OPPOSITE DIRECTION. EXCEL OTHER BRUSHES 12 INCH NOZZLE 8 FIBRE ROLLERS. GREATER DURABILITY THAN WOOD. SLOTTED NOZZLE CLEANS CLOSER TO BASEBOARD AND FEET OF FURNITURE. NOZZLE ALWAYS IN CONTACT WITH CARPET. EXCELS AS DIRT GETTER
7

	Each
No. **3600**—Regular Family Size	$82.50

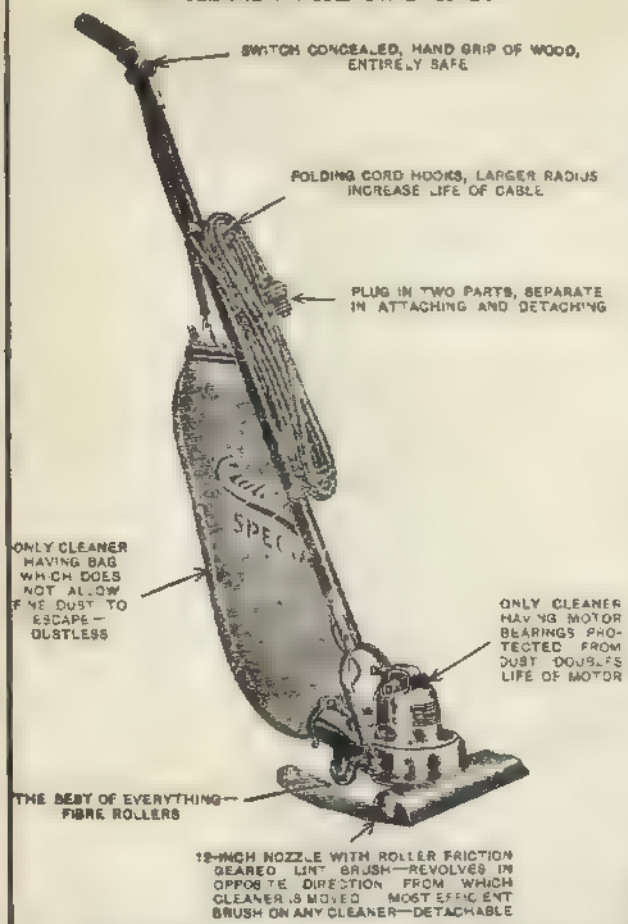
EXTRA ATTACHMENTS

	Per Set
No. **EA3600**—For No. 3600 Electric Cleaner	$19.00

ELECTRIC SUCTION CLEANERS

"CADILLAC SPECIAL"

"THE CLEANER WITH NINE LIVES"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Each

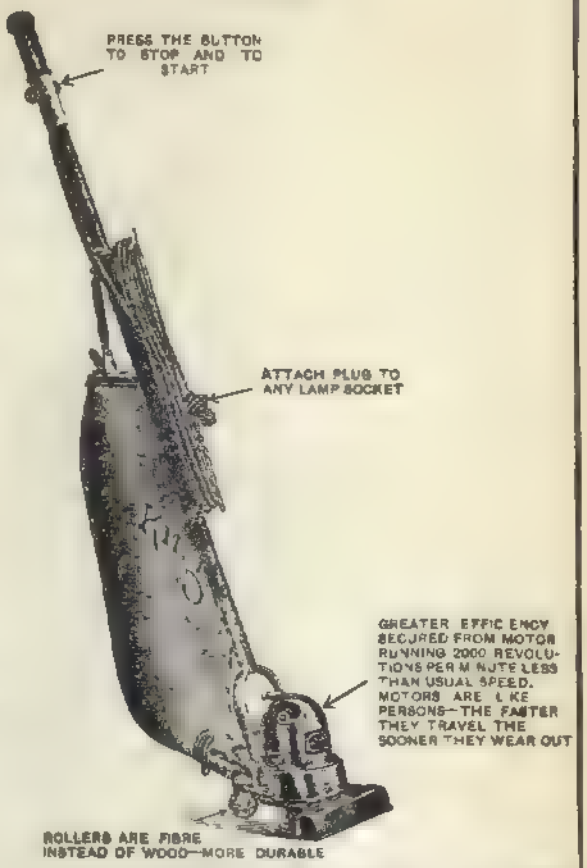
No. 2600—Model K **$71.00**

EXTRA ATTACHMENTS FOR No. 2600

1 Furniture and Mattress Nozzle
1 Wall or Floor Brush
1 Extension Handle
1 Blowing Nozzle, Radiator, and Edge Tool
1 Adapter
1 Hose Connection
1 Length—Covered Hose for Suction or Blowing

Per Set **$15.00** Complete

KING


PRESS THE BUTTON TO STOP AND TO START
ATTACH PLUG TO ANY LAMP SOCKET
GREATER EFFICIENCY SECURED FROM MOTOR RUNNING 2000 REVOLUTIONS PER MINUTE LESS THAN USUAL SPEED. MOTORS ARE LIKE PERSONS—THE FASTER THEY TRAVEL THE SOONER THEY WEAR OUT
ROLLERS ARE FIBRE INSTEAD OF WOOD—MORE DURABLE

Combines Efficiency, Durability, Strength, and Attractive Design. One-eighth Horse-power Motor. Roller Geared Revolving Brush for Ravelings and Lint. Same Can be Easily Detached from Nozzle. Switch is Fully Enclosed in Handle—No Knob to Break. Press Button to Start and Press it in the Opposite Direction to Stop. Dust Collector is Easily Attached and Detached from Machine and Permits Air to Percolate with Ease. Also Overcomes Back Pressure. Large, Open, Section Fan with Six Steel Blades. Parts can be Replaced, Saving Expense of Entire Fan if Broken. Ten-inch Nozzle. A 25-foot Gray Cord is Attached to Cleaner. The King can be Operated only on the Following Current: Alternating Current 60 Cycles, 110 to 120 Volts. Direct Current, 110 to 120 Volts. For Other Currents special Machines will be Furnished Without Extra Charge. Guaranteed Against Any Defects in Material or Workmanship.

Each

No. 517—King—Height, 7½ Ins. Weight, 8 Lbs. **$56.00**

EXTRA ATTACHMENTS FOR No. 517

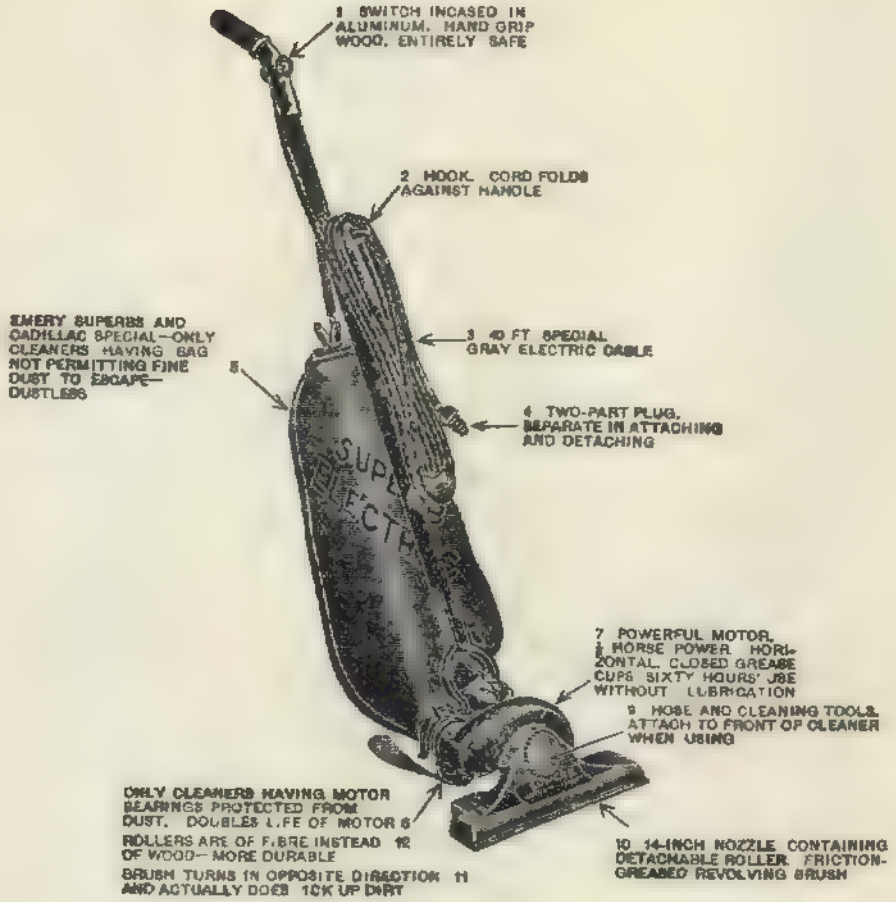
1 Length—Covered Hose for Suction or Blowing
1 Hose Connection
1 Adapter
1 Blowing Nozzle, Radiator, and Edge Tool
1 Wall or Floor Brush
1 Furniture and Mattress Nozzle
1 Extension Handle

Per Set **$16.00** Complete

Sold only in complete sets.

ELECTRIC CLEANERS

SUPERB


1 SWITCH INCASED IN ALUMINUM. HAND GRIP WOOD. ENTIRELY SAFE
2 HOOK. CORD FOLDS AGAINST HANDLE
3 40 FT SPECIAL GRAY ELECTRIC CABLE
4 TWO-PART PLUG. SEPARATE IN ATTACHING AND DETACHING
5 EMERY SUPERBS AND CADILLAC SPECIAL—ONLY CLEANERS HAVING BAG NOT PERMITTING FINE DUST TO ESCAPE—DUSTLESS
7 POWERFUL MOTOR, ½ HORSE POWER HORIZONTAL. CLOSED GREASE CUPS SIXTY HOURS' USE WITHOUT LUBRICATION
8 HOSE AND CLEANING TOOLS ATTACH TO FRONT OF CLEANER WHEN USING
9 ONLY CLEANERS HAVING MOTOR BEARINGS PROTECTED FROM DUST. DOUBLES LIFE OF MOTOR
ROLLERS ARE OF FIBRE INSTEAD OF WOOD—MORE DURABLE
BRUSH TURNS IN OPPOSITE DIRECTION AND ACTUALLY DOES PICK UP DIRT
10 14-INCH NOZZLE CONTAINING DETACHABLE ROLLER FRICTION-GREASED REVOLVING BRUSH

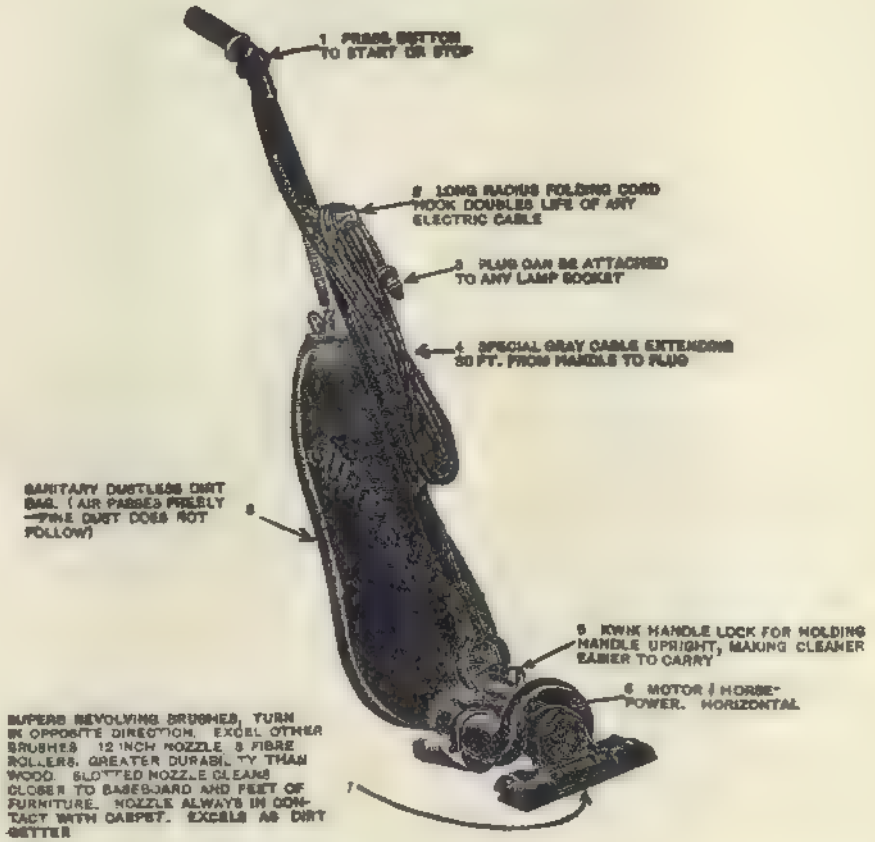
No. 4800—Large Type. For Churches and Large Homes . . . . . Each **$185.00**

EXTRA ATTACHMENTS

No. EA4800—For No. 4800 Electric Cleaner . . . . . Per Set **$18.00**

ELECTRIC CLEANERS

SUPERB JR.

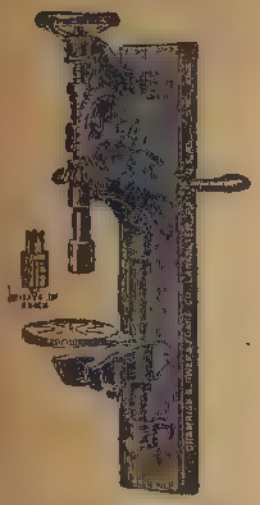

1 PRESS BUTTON TO START OR STOP
2 LONG RADIUS FOLDING CORD HOOK DOUBLES LIFE OF ANY ELECTRIC CABLE
3 PLUG CAN BE ATTACHED TO ANY LAMP SOCKET
4 SPECIAL GRAY CABLE EXTENDING 30 FT. FROM HANDLE TO PLUG
SANITARY DUSTLESS DIRT BAG. (AIR PASSES FREELY —FINE DUST DOES NOT FOLLOW)
5 KINK HANDLE LOCK FOR HOLDING HANDLE UPRIGHT, MAKING CLEANER EASIER TO CARRY
6 MOTOR 1 HORSE-POWER. HORIZONTAL
SUPERB REVOLVING BRUSHES, TURN IN OPPOSITE DIRECTION. EXCEL OTHER BRUSHES 12 INCH NOZZLE 8 FIBRE ROLLERS. GREATER DURABILITY THAN WOOD. SLOTTED NOZZLE CLEANS CLOSER TO BASEBOARD AND FEET OF FURNITURE. NOZZLE ALWAYS IN CONTACT WITH CARPET. EXCELS AS DIRT GETTER
7

	Each
No. **3600**—Regular Family Size	$82.50

EXTRA ATTACHMENTS

	Per Set
No. **EA3600**—For No. 3600 Electric Cleaner	$19.00

CHAMPION DRILLS
POST



Hand-feed, ball bearing. Diameter of spindle ⅞-inch. Drills ⅛ to ¾-inch hole to center of a 12-inch circle. Has a slotted lathe turned table. Spindle is made of ⅞-inch steel and has an up-and-down run of 3 inches.

No. 92—Never Slip chuck bored for 41/64-inch straight shank drills.

Each $21.35

No. 92½—Never Slip chuck bored for ½-inch straight shank drills.

Each $21.25

Weight, crated, 65 lbs

Self-feed, ball bearing. Drills ⅛ to ¾-inch hole to center of a 12-inch circle. Has slotted lathe-turned table. Diameter of spindle, ⅞-inch. Has an up-and-down run of 3 inches.

No. 101—Never Slip chuck bored for 41/64-inch straight shank drills.

Each $28 00

No. 101½—Never Slip chuck bored for ½-inch straight shank drills.

Each $28.00

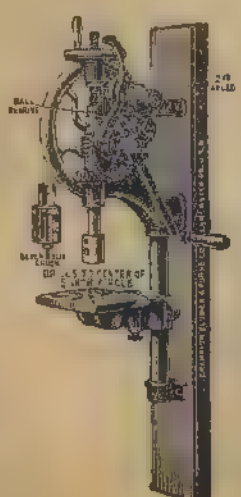
Weight, crated, 80 lbs

Self-feed, ball bearing. Drills holes from ⅛ to 1-inch to center of 14-inch circle. Has a lathe turned table. Spindle is made of 1-inch steel. Has an up-and-down run of 3 inches. Never Slip Spindle is bored for 41/64-inch shank drills

No. 98

Weight crated, lbs..... 95

Each $33 00

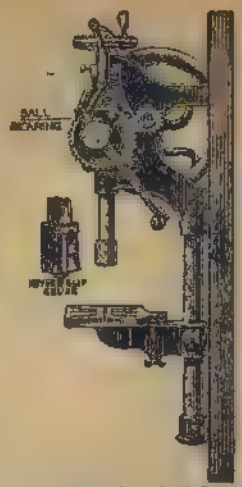


Self-feed, two speed, ball-bearing drill. Has back gears. Drills holes ⅛ to 1¼-inch. Drills center of 15-inch circle. Has a lathe turned table. Spindle, 1⅛ inches in diameter. Has an up-and-down run of 3 inches. Never Slip Spindle bored for 41/64-inch shank drills.

No. 95

Weight crated, lbs..... 115

Each $43.50

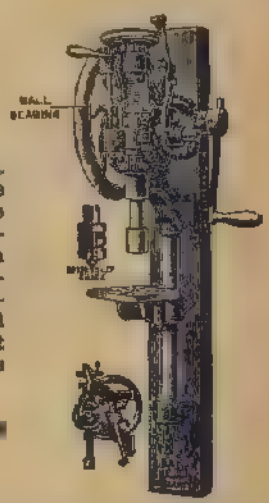


Ball bearing, self-feed with two speeds. Has double journal bearings to all gears. Lathe turned and slotted square table. Drills holes up to 1¼ inches and to the center of 15-inch circle. Spindle-bored like Never-slip chuck to take ⅝-inch straight shank drills. Has up and down run of 3 inches.

No. 93

Weight crated, lbs..... 125

Each $80.00



Self-feed. Quick return. Two speeds. Ball bearing. Drills ⅛ to 1⅛-inch hole to center of a 16½-inch circle. Has square, slotted, lathe-turned table. Spindle 1⅛ inches in diameter. Up-and-down run of 3 inches. Crank has forward motion on both speeds. All gears are protected with double journal bearings. All bearings are ground to a working fit out of solid metal. Never Slip spindle is bored for 41/64-inch shank drills.

No. .....

Each .....

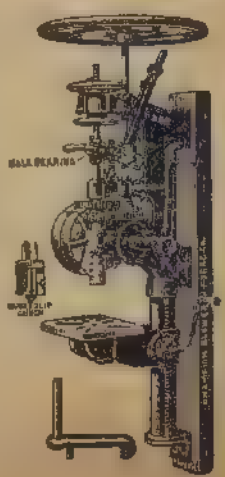
Weight, crated, 135 lbs.

Automatic self-feed and lever-feed, each independent of the other. Ball bearing. Two speeds. Drill bit raised or lowered instantaneously. Double back gears. Drills ⅛ to 1¼-inch hole to center of a 16-inch circle. Spindle 1¼ inches diameter and has an up-and-down run of four inches. Never Slip spindle, bored for 41/64-inch shank drills.

No. 200

Weight, crated, lbs 200

Each—Without pulleys $65 00



Automatic self-feed and double compound lever feed, each independent of the other. Cut gears and ball bearings. Bit raised or lowered instantaneously. Has table rack and wheel holder. Two speeds. Drills ⅛ to 1½-inch hole to center of 21-inch circle. Feed screw has an up-and-down run of 5½ inches. Never Slip spindle bored to take 41/64-inch No. 110 drills.

No. 203 .....Each $140.00

Weight, crated, 435 lbs.

POWER AND HAND

With Tight and Loose Pulleys

No. 203P .....Each $150.00

Weight, crated, 465 lbs.

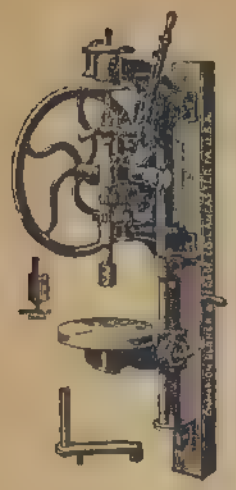
With Cone Pulley and Countershaft

No. 203CP .....Each $175.00

Weight, crated, 510 lbs.

CHAMPION DRILLS

POST



Automatic self-feed and double compound lever-feed, each independent of the other. Ball bearing. Machine cut double sliding back gears. Bit raised and lowered instantaneously. Has table rack and wheel holder. Drills ⅛ to 1½-inch hole to the center of 21-inch circle. Spindle 1¼ inches diameter and has an up-and-down run of 5½ inches. Has two speeds, which are changed by simply changing the gears. Never Slip spindle is bored to take 41/64-inch drills.

No. 201
Each $120.00

Weight, crated, 375 lbs.

POWER AND HAND

No. ..... 201 P
Each—With pulleys $130.00

Weight, crated, 400 lbs.

No. 201CP
Each—With cone pulleys and countershaft $150 00

Weight, crated, 445 lbs.

This drill is similar to No. 201 with smaller swing and lighter construction. Never Slip chuck is bored for 41/64-inch shank drills. Drills holes up to 1½ inches to center of 18-inch circle, spindle 1¼ inches, run of feed 5½ inches, run of table 10 inches.

No. 200½
Each—Without pulleys $90 00

Weight, crated, 240 lbs.

New improved. Self-feed. Two speeds. Quick return. Ball bearing. Cut geared. Has table rack and wheel holder. The bearings on this drill are the very best ground and polished out of the solid metal to a working fit. Drills ⅛ to 1½-inch hole to center of a 21-inch circle. Feed has a run of 5½ inches. Never Slip spindle is bored for 41/64-inch shank drills.

Without Pulleys

No. 7
Each $115.00

Weight, crated, 400 lbs.

POWER AND HAND

With Pulleys

No. ..... 7 P
Each $125.00

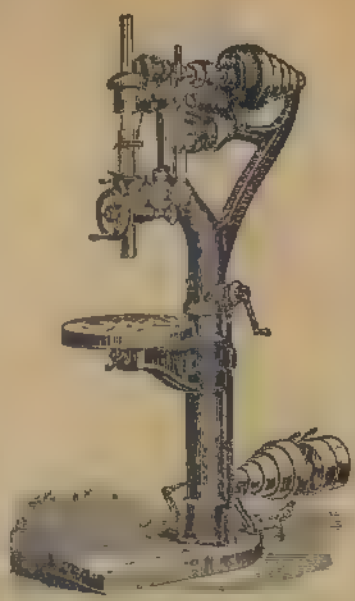
Weight, crated, 425 lbs.

With Cone Pulley and Countershaft

No. 7CP
Each $150.00

Weight, crated, 450 lbs.

20-INCH BACK-GEARED UPRIGHT POWER DRILL



An Exclusive Machine Shop Drill

Combines simplicity and speed in operation and drills with perfect accuracy holes up to 1½ inches. The change from plain to back geared drill is done in an instant by simply sliding the gears. The spindle is counterbalanced by a weight in the hollow column. Has screw for raising and lowering the table.

No. 20SB—Height of drill, 75 inches; distance between table and spindle, 27 inches; distance between spindle and base, 42¼ inches; distance from column to center of spindle, 10¼ inches; diameter of crown gear, 5¼ inches; diameter of pinion gear, 3¼ inches; diameter of column, 5¼ inches; traverse of table on column, 18½ inches; diameter of table, 16 inches; diameter of spindle, 1¼ inches; traverse of spindle, 8 inches; size of tight and loose pulleys, 8x2¾ inches; size of cone pulleys (4-step), 4, 5¾, 7½, 9x2-inch face; speed of driving pulleys, 300 revolutions per minute; floor space required (square base), 16x46 inches; horsepower required, 1; hole in spindle bored to fit Morse Taper No. 4.

Complete, with square base, less belts. Weight, 815 lbs.

Each $400 00

POWER BENCH DRILLS

The Champion power bench drill is strictly a high grade, powerful and well built bench drill. The top of the drill base is planed off to use as table, when the regular drill table is turned to one side, giving a space of 16 inches between the chuck and the base table. This drill will bore all sizes up to ⅞ with ease to center of 9-inch circle. Spindle is bored for No. 1 Morse taper shank drill. Up and down run of spindle, 3½ inches. This drill is adapted for garages, pattern makers and machine shops where light, rapid and accurate drilling is done.

No.	0
Height, inch	32
Weight, lbs	80
Each	$60.00

CHAMPION FORGES

RIVET OR TOOL MAKERS

Pressed steel hearth and wind shield, encased fan and gearing; four bent tubular steel legs. Constructed from structural steel. Its gearing is the high speed Champion spiral gearing. Will produce blasts to weld 3½ to 4-inch iron in ten minutes. Crank turns in either direction to make blast, producing 46 revolutions of the fan wing with each turn. Adjustable ball bearings.

With shield. Hearth, 18 inches diameter. Height, 30 in. Fan, 9 in. diameter.

No. 401
Weight crated, lbs..... 115
Each $58.50

With shield. Hearth, 22 inches diameter. Height, 30 inches. Fan, 9 inches diameter.

No. 401½
Weight crated, lbs..... 120
Each $54 00

With half hood. Hearth, 18 inches diameter. Height, 30 inches. Fan, 9 inches diameter.

No. 402
Weight crated, lbs..... 120
Each $52.00

With closed hood. Otherwise same as No. 402

No. 403
Weight crated, lbs..... 125
Each $55.50

BLACKSMITHS AND CONTRACTORS

Reinforced stamped steel legs, stamped steel bowl and half hood. Ball bearing throughout. Spiral gearing and whirlwind blast tuyere iron. Blast is produced by turning crank in either direction. Blast is powerful enough for all kinds of light and heavy blacksmiths work.

Height to top of hearth 30 inches, fan 12 inches, steel sides 6 inches, hearth 30x36 inches.

No. 408—Without tank ..... Each $110 00
No. 408WT—With tank ..... " 115 00
Weight crated, 300 lbs.

Suitable for all kinds of heavy work in railroad shops, carriage and wagon shops, plow works, garages, etc. Spiral gearings and whirlwind blast tuyere iron. Height to top of hearth 30 inches, fan 12 inches. Steel sides 6 inches. Hearth 30x40 inches.

No. 409 Without tank.....Each $115.00
No. 409WT—With tank. ..... " 120.00
Weight crated, 310 lbs.

LANCASTER GEARED OR AGRICULTURAL

With shield. A strong, light forge for all kinds of portable work. Can easily be carried about, and is one of the best low priced forges manufactured.

Size of hearth, 22 inches. Diameter of fan, 10 inches.

No. 45
Each $50.00
Weight, crated 115 lbs.

With half hood. Same construction and finish as No. 45, except that it is supplied with half hood in place of shield.

Size hearth, 22 inches in diameter. Fan, 10 inches.

No. 46
Each $45.00
Weight, crated, 115 lbs.

CONTRACTORS OR BOILERMAKERS

Champion Rivet Forge. Same construction of blower and fan as No. 401. Height to top of hearth, 30 inches, fan 9 inches, hearth 24x24 inches.

No. 404—Without water tank.
Weight crated, lbs..... 170
Each $63.00

With shield. Hearth, 30x30 inches. Height, 30 inches. Fan, 10 inches diameter.

No. 406
Weight crated, lbs..... 230
Each—Without water tank.....$94.00
No. 406WT
Weight crated, lbs..... 240
Each—With water tank.....$100.00

BLACKSMITHS OR RAILROAD

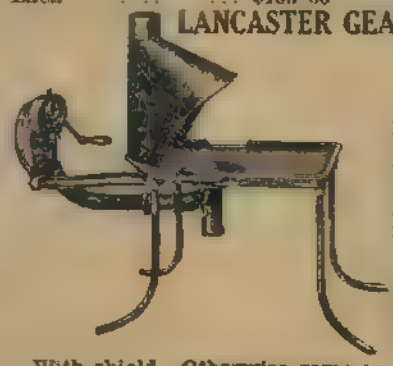
Recommended for heavy work of all kinds. Forge with cast iron hearth, half hood and slope bottom tool box. Hearth, 32x45 inches, height 30 inches, fan 12 inches in diameter, with "Whirlwind" blast anti-clinker heavy nest tuyere.

Without water tank.
No. 433
Each $100.00
Weight, crated, 375 lbs.

With water tank
No. 433WT
Each $105 00

LANCASTER GEARED OR AGRICULTRAL

With half hood.



A well-built, low-priced direct-drive forge, a good blast producer. With a large size hearth and fan, and is a suitable agricultural blacksmith forge where a direct-drive forge of these dimensions is required.

Hearth,23x35 inches. Height 30 inches. Fan, 12 inches diameter.

No. 43
Each $66 00

With shield. Otherwise same as No. 43, and is suitable for indoor work.

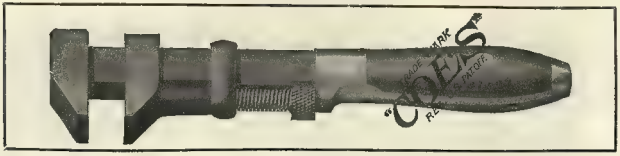
No. 42
Each $55.00
Weight, crated, 170 lbs.

MIDWAY

Made from structural steel, with steel hearth. It is the same forge as the Champion line, but having the Midway spiral-geared blower. Gearing runs in oil in a dustproof casing, the crank turning in the other direction. Simple in construction and without small gears or pinions. We recommend this blower as a strong and well built blower with a good blast.

Midway cross spiral-geared hearth, 18 inches in diameter. Height to top of hearth, 30 inches. Fan, 10 inches.

No. 78
Each $56 00
Weight, crated, 120 lbs.



Five Coes Wrenches

If you could visit our factory we would take pleasure in showing you five Genuine Coes Knife-Handle Wrenches that have been in continuous service for 138 years and are still in good condition.

Three of these wrenches were used in one shop. One saw 25 years service—another 26 years and the third 40 years.

The two wrenches used in another shop gave 22 and 25 years service respectively.

This represents an average service of over 27 years for each wrench.

When any "Doubting Thomas" asks you or your sales force how Coes Wrenches "stand up"—just cite this service record.

Coes Wrench Company

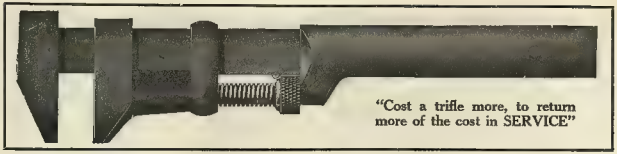
Worcester Established 1841 **Mass.**

AGENTS:

J. C. McCarty & Co., 29 Murray St., New York

Fenwick Frères, 8 Rue de Rocroy, Paris, France

John H. Graham & Co., 113 Chambers St., New York



In Service 138 Years

Now if Coes Genuine Knife-Handle Wrenches will last like that, what kind of service can your customers expect from Coes All-Steel Wrenches which are even heavier and stronger?

Do you now understand why we have been shouting: "Cost a trifle more, to return more of the cost in SERVICE?"

In our opinion a Million words would not emphasize Coes Quality like that service record. Those five wrenches taken from regular stock prove that what a user gets *out* of a wrench depends entirely upon what the manufacturers put *into* it.

Sell wrenches that *make* customers and *hold* them.

Coes Wrench Company

Worcester Established 1841 **Mass.**

AGENTS:

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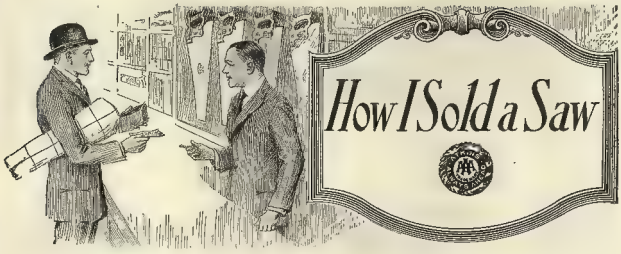


Here is the Winner

A. H. VAN VORIS
Cobleskill N. Y.

This Week's Best Letter

Here is the prize winner of this week's contest and his letter.

As previously announced this contest will continue until December, 1920 A prize of $10 (ten dollars) will be awarded each week for the best letter.

Let us have your letter now!

It is our belief that every retail hardware salesman has his own pet talk that sells the goods.

Passing these hints and pointers along will be beneficial to the man behind the hardware counters. This is the object of the contest.

Write your letter Now!

Send your photo with the letter. It will be returned as soon as we have finished with it.

HE SAYS:

The Sale of an Atkins Silver Steel Hand Saw

Gentlemen:

A week or so ago, a carpenter employed in the Trimming Department of a local factory called at the store and asked for a certain saw of another make other than Atkins. He wanted a short saw of rather fine cut, and I showed him a No. 66.

He seemed quite determined that he wanted the make of saw he asked for, saying that he had always used that make, and that he did not want to change, and that he guessed he would look elsewhere. However, I persuaded him to at least look at the Atkins Saw. I had often found it to be the case that a sale is helped along when the customer has the article in his own hands.

This model is a handsome saw to look at and just as appealing in its hang, and I could see that he was interested as soon as he got it in his hands; I first called his attention to the material—Atkins Silver Steel, made under a special process invented by E. C. Atkins in 1857. I told him that the result of this process brought out a steel equal in quality to Razor Steel.

My carpenter friend thought this sounded well enough and he admitted that the saw looked good, but said that the other make he always used was exceptional in toughness, and that he was afraid this saw might turn brittle. This gave me a good opportunity to go into the details of the tempering process which renders the Atkins absolutely the same in toughness throughout the blade. I told him about the grinding method of Atkins, comparing it with the grinding of other makes.

The next part of the sale shows an element of chance, but really goes further in showing up Atkins Quality. At this point of the sale, my attention was called from this customer by a matter which required immediate attention, so I reached in the saw drawer, opened up one of your Saw Sense booklets to page 6, about testing an Atkins Saw, handed it to the carpenter and asked him to read it over and test the saw accordingly, and that I would be back in a moment.

He had time to run through this article, and I believe the Atkins guarantee on the next page clinched the sale, for he said to me, "I see I am taking no chance for this says you will take the saw back if it fails to give perfect satisfaction."

He kept the saw and he tells me that it suits him perfectly, and he will soon be here to look at one of those Atkins Rip Saws

Very truly yours,

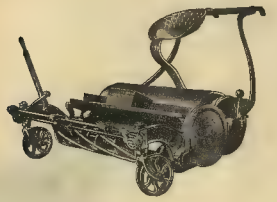
A. H. VAN VORIS

With Irving Van Voris, Cobleskill, N. Y

E. C. ATKINS & COMPANY, INC.
"THE SILVER STEEL SAW PEOPLE"
Established 1857
INDIANAPOLIS, IND., U.S.A.

LAWN MOWERS

*COLDWELL "IMPROVED" HORSE



Made regularly with four blades in the revolving cutter, but when exceptionally fine cutting is required, such as golf links and on other fine lawns, the six-blade cutter is preferable.

Drive rollers 16 in. diameter, external front drive gears, double triple-pawl ratchets between rollers, diameter of revolving cutter 7 in., four or six blades, adjustable split bronze bearings, best laid steel bottom knife. Width of cut 30 to 40 inches. Has an attachment for raising the knives when crossing gravel walks and drives.

Four Blades

Aluminum Finish, with Red and Gold Trimmings.

30-in. Cut, about 780 lbs. ..... Each, $110.00
35-in. Cut, about 820 lbs. ..... " 135.00
40-in. Cut, about 900 lbs. ..... " 170.00

Six Blades

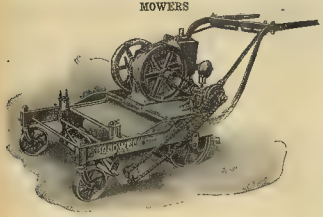
Aluminum Finish, with Red and Gold Trimmings.

30-in. Cut ..... Each, $120.00
35-in. Cut ..... " 145.00
40-in. Cut ..... " 180.00

Furnished complete with seat, shafts and side draft attachment.

*Not carried in stock For factory shipment only.

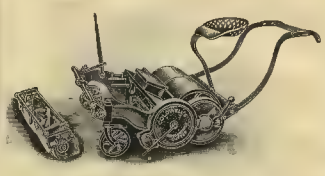
*COLDWELL'S COMBINATION ROLLER AND MOTOR MOWERS



Model H	Wt. Crated 1170 lbs.,	30	in. Cutter..		Each,	$300.00
" G	" "	1200	"	35 "	"	400.00
" F	" "	1500	"	40 "	"	575.00

Direct Chain Drive. Gasoline Engine attached. Equipped with differential gears. No brakes necessary for down hill grades, as Engine will hold machine back.

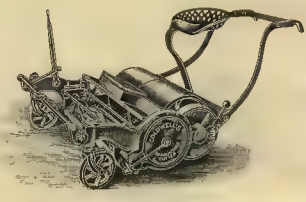
*COLDWELL'S "DEMOUNTABLE" CUTTER UNIT HORSE



Four Blades, With Extra Cutter Unit

Aluminum Finish, with Red and Gold Trimmings.

30-in. Cut ..... Each, $180.00
35-in Cut ..... " 220.00
40-in. Cut. ..... " 260.00



Six Blades, With Extra Cutter Unit

Aluminum Finish, with Red and Gold Trimmings.

30-in. Cut.. ..... Each, $190.00
35-in. Cut ... . " 230.00
40-in. Cut ..... " 270.00

Drive rollers 15 in. diameter, external front drive gears, double triple-pawl ratchets between rollers, diameter of revolving cutter 7 in., four or six blades, adjustable split bronze bearings, best laid steel bottom knife. Width of cut 30 to 40 inches. These mowers are equipped with Coldwell's Demountable Cutter Unit, which really makes them two lawn mowers in one.

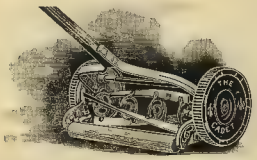
The Demountable Cutter Unit Horse Mower is constructed upon an entirely new principle. The cutter section, which is the vital part of a lawn mower, is made into a unit and is independent and removable from the main frame of the mower. This unit consists of a simple frame containing the revolving cutter, the bottom or stationary knife and parts necessary for adjusting the same to each other. It is attached to the main frame of the mower by four locking screws and can be attached or removed in less than a minute. It being separate and independent of the main or larger frame, it relieves the knives from the twisting and strain that usually occurs in the frame of the ordinary horse mower when in use on rough ground. This unit, being the cutter section of the mower, is the only part necessary to send for sharpening or adjusting.

Furnished complete with seat, shafts and side draft attachment.

*Not carried in stock. For factory shipment only.

LAWN MOWERS

CADET



3 Blades, 8-in. Wheels

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings. Finish, Red, Green and Gold.

Width of Cut—In.	12	14	16
Weight each, lbs.	35	37	39
Each	$9.00	9.75	10.50

RAINIER

3 Blades, 8-in. Wheels

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings. Finish, Red, Green and Gold.

Width of Cut—In.	12	14	16
Weight each, lbs.	35	37	39
Each	$9.00	9.75	10.50

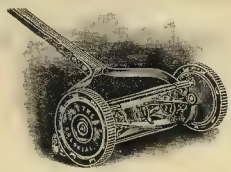
DIAMOND

4 Blades, 8-in. Wheels

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife, Adjustable Split Brass Bearings. Finish, Green and Gold with Red Stripe.

Width of Cut—In.	12	14	16
Weight each, lbs.	36	37	39
Each	$10.00	11.00	11.50

COLONIAL



4 Blades, 8-in. Wheels, Ball-Bearing

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum and Red with Gilt Trimmings.

Width of Cut—In.	12	14	16
Weight each, lbs.	38	40	45
Each	$12.00	12.50	13.00

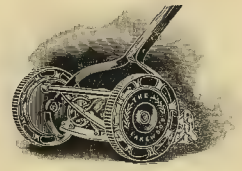
CASCADE

4 Blades, 8-in. Wheels, Ball-Bearing

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum and Red with Gilt Trimmings.

Width of Cut—In.	12	14	16
Weight each, lbs.	38	40	45
Each	$12.00	12.50	13.00

LAKEWOOD



4 Blades, 9-in. Wheels, Ball-Bearing

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum, Red and Gold Trimmings.

Width of Cut—In.	14	16	18
Weight each, lbs.	60	65	60
Each	$15.00	16.00	17.00

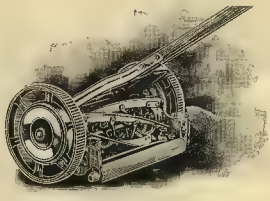
ALOHA

4 Blades, 9-in. Wheels, Ball-Bearing

Internal Gears, Direct Drive, Best Tool Steel Bottom Knife. Finish, Aluminum, Red and Gold Trimmings.

Width of Cut—In.	14	16	18
Weight each, lbs.	60	65	60
Each	$15.00	16.00	17.00

OCCIDENT



5 Blades, 10¼-in. Wheels, Ball-Bearing

Patent Double-Edged Bottom Knife. Finish, Gold and Silver, with Red Trimmings

Width of Cut—In.	14	16	18	20
Weight each, lbs.	60	65	70	75
Each	$20.00	22.00	24.00	26.00

RAJAH

5 Blades, 10¼-in. Wheels, Ball-Bearing

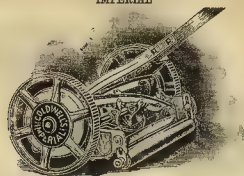
Patent Double-Edged Bottom Knife. Finish, Gold and Silver, with Red Trimmings.

Width of Cut—In.	14	16	18	20
Weight each, lbs.	60	65	70	75
Each	$20.00	22.00	24.00	26.00

All above one in a box, Handles separate.

LAWN MOWERS

IMPERIAL



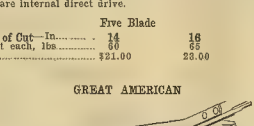
Imperial, 10¼ in. Wheels, Split Adjustable Brass Hanger Bearings. Finish, White and Red with Gold Trimmings

The Imperial is the highest grade Lawn Mower. Made with parallel bearings; equipped with all the latest devices, such as patent reversible channel-shaped bottom knife, indestructible triple-pawl ratchets, positive lock adjustment, renewable bronze bearings, and a simple construction for mowing terraces. Can be easily sharpened without removing any parts. Gears are internal direct drive.

Five Blade

Width of Cut—In.	14	16	18
Weight each, lbs.	66	68	70
Each	$21.00	23.00	25.00

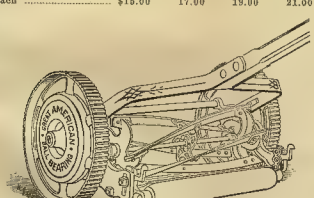
GREAT AMERICAN



3 and 4 Blades, 7-in. Wheels

Crucible Tool Steel Blades, Plain Bearings.

Width of Cut—In.	12	14	16	18
Number of blades, each	3	4	4	4
Weight each, lbs.	40	48	51	54
Each	$15.00	17.00	19.00	21.00



5 Blades, 10-in. Wheels, Ball-Bearing

Patent Self-Sharpening Dead Knife, Crucible Steel Blades.

Width of Cut—In.	15	17	19	21
Weight each, lbs.	65	67	70	76
Each	$25 00	28.00	31.00	34.00

All above one in a box, Handles separate.

LAWN TRIMMERS

COLDWELL, BALL BEARING

Four Blades

No. 4-LT—Width of Cut, 8 in. Wt. each, 35 lbs.....Each, $12.00

One in a box, handles separate.

LAWN MOWER SHARPENING COMPOUND

CLOVER

How It's Done With Clover

Illustrated, detailed instructions accompany each can, but, here is how it's done:

1—Adjust base blade to as even a contact as possible with each rotary blade for entire length. Don't set too tightly together.

2—Apply Clover Compound entire length of each rotary blade with finger tip.

3—Push the mower forward and back rapidly on level surface a dozen times, spinning the blades, and bringing them together sharply.

4—Wipe off compound; blades should cut newspaper like sharp shears; if not, proceed again as above until they do.

Contents of a Can Will Sharpen an Ordinary Mower Ten Times

Note—Some mowers are provided with special attachment for turning rotary blades by hand. In such cases use attachment instead of spinning the blades as described in No. 3; in which case it is also desirable to rotate the blades backwards instead of forwards during the grinding operation.

Clover Lawn Mower Sharpening Compound is a grinding compound. When applied in the right grade (Grade D) to the cutting edges of a mower, after these edges have been properly adjusted, it will grind them together in place sharp, and make a perfect job of it.

So simple is the whole operation, that any boy, girl, man or woman who can push a mower can sharpen one with Clover Compound, and do a better job than can a trained mechanic by employing the usual old-time methods.

Instead of paying from $1.00 to $2.00 to have your mower improperly sharpened once a season, buy a 50-cent can of Clover Mower Sharpening Compound, and sharpen it every time you use it—you will never know the delight of cutting grass until you do.

½-Pound Cans . . . . . Per Dozen, $6.00

LANTERNS

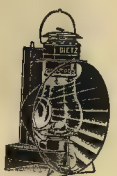
DIETZ

BEACON DASH

No. 382—Square tubular, with bright tin hood, 5-in. spun metal polished reflector, dash clip spring, top lift, No 1 burner, ⅞-in. wick, No. 2 cold blast globe. Holds oil to burn 20 hours. 7 candle power. Weight per dozen, 33 lbs..... Per dozen, $28.80

One-half dozen in a case.

BEACON LIGHTS



No. 30BL—Blue japanned, height 15¼ in., 50-candle power, No. 3 steel burner, 1-in. wick. Weight per doz., 104 lbs..... Per dozen, $42 20

One-half dozen in a case.

No. 60BL—Blue japanned, height 20½ in., 100-candle power, No. 3 steel burner, 1-in. wick. Weight per doz., 238 lbs..... Per dozen, $120.00

One-twelfth dozen in a case.

DIETZ OCTO DRIVING

Octo—Steel, black enameled, with brass door ring. Optical lens. Ruby rear lens. Holds oil to burn 10 hours. 70 candle power..... Per dozen, $58.40

One dozen in a case.

DIETZ EUREKA DRIVING.

Eureka—7½ in. high. Complies with all night driving laws. 2-in. plain door lens. Sufficient oil to burn 10 hours. A dash clamp holder with each lamp. Finish, black enamel with nickel-plated door. All parts removable. Weight per dozen, 30 lbs. ..... Per dozen, $26 00

One dozen in a case

DIETZ X. L. C. R. SWITCHMAN'S

X. L. C. R.—Insulated bail. No. 2 burner for signal oil, 1-in. wick Holds oil to burn 24 hours. 2 candle power Weight per dozen, 24 lbs ..... Per doz., $32.05

DIETZ, STEEL CLAD, RAILROAD

No. 39—Steel clad. With ratchet burner for lard oil, or convex burner for kerosene. Weight per dozen, 47 lbs ..... Per dozen, $26.00

One dozen in a case.

TINNED CASEY RAILROAD

Casey—Steel frame Wick raised and lowered by turning oil cup, which operates ratchet. Weight per dozen, 33 lbs..... Per dozen, $30.00

PIONEER STREET

No. 63—Tubular, painted green, No. 3 burner, 1½-in. wick, No. 3 globe. Holds oil to burn 24 hours. 22 candle power. Height, 24½ in. Weight, 30 lbs..... Each, $8.30

SEATTLE HARDWARE COMPANY

LAMPS

PIONEER HANGING

No. 53—Tubular, painted green, No. 3 burner, 1⅛-in. wick, No. 3 globe Holds oil to burn 24 hours. 22 candle power. Height, 21½ in. Weight, 24 lbs..... Each, $9.00

One in a case.

CLIMAX STATION

No. 32—Blue japanned, No. 2 burner, No. 2 chimney, 1-in. wick, 8-in. reflector. Holds oil to burn 23 hours. Adapted to indoor and outdoor use. Height, 17½ in. Width, 10¼ in. Depth, 8⅜ in. Weight, 18 lbs ..... Each, $7.00

IMPERIAL SQUARE

No. 22—Cold blast, blue japanned, No. 3 burner, 8-in. reflector, 1¼-in. wick. Holds oil to burn 17 hours. 100 candle power Height, 21½ in. Width, 9⅝ in. Depth, 10½ in. Weight, 21 lbs..... Each, $13.30

BRACKET OR KITCHEN

Tin Fount and Reflector

No. 1—No. 2 burner and chimney. 1-in wick. Weight per dozen, 28 lbs. .....Per Dozen, $12.00

Glass Fount, Steel Frame, Tin Reflector

No. 3—No. 2 burner and chimney. 1-in. wick. Weight per dozen, 35 lbs. ..... Per Dozen, $10 00

One dozen in a case.

Glass Fount, French Bronze, Iron Frame Silvered Glass Reflector

No. 10—No. 2 burner and chimney 1 in. wick. 7-in reflector. Weight per dozen, 90 lbs Per dozen, $18.00

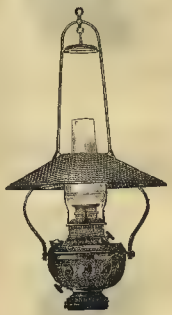
One-half dozen in a case

HANGING

No. 20—Complete with 15-in. corrugated tin shade. No. 2 burner and wick and No. 2 Rochester chimney. Fount solid brass, polished. Weight each, 11 lbs..... Each, $5.00

One in a case.

HANGING

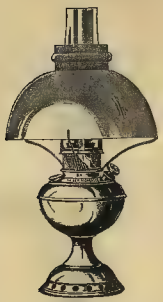


Solid Brass, Nickel Plated, 400 Candle Power

No. 30—Complete with 20-in. tin corrugated reflector, No. 3 burner and wick, No. 00 Belgian chimney. Height of fount to top of burner, 10⅝ in. Capacity, 1 gallon. ..... Each, $10.00

LAMPS

STAND



Solid Brass, Heavily Nickel Plated

No. 2—Height to Top of Chimney, 18 in. Complete with No. 2 Rochester Burner, Chimney and Wick, 10-in. White Dome Shade. Capacity of Fount, 1 quart.....Each, $3.50

Extra White Domes—10 in ..Doz., 15.00

GLASS HAND

No. 12HD—Complete with chimney, No. 1 burner and wick..... Per doz., $8.00
Seven dozen in a barrel.

GLASS STAND

No. 19ST—Complete with chimney, No. 2 burner and wick ... Per doz.. $10.00
2¼ dozen in a barrel.

LAMP ASSORTMENT

Without Burners, Wicks or Chimneys

No. 2—One-half dozen each of five styles, all fitted with No. 2 collar for No. 2 burner.....Per assortment, $15 00

WALL TORCHES

BANJO

No. 100—Japanned. Dozen, $30.00
Extra Burners for above " 15.00

BURNERS

EAGLE

No. 1—For ⅝-in. wick. Weight per dozen, 2½ lbs.....Per doz., $2.00
No. 2 For 1-in wick Weight per dozen, 3 lbs. .. .. Per doz , $2.50
No. 3—For 1-in. wick. As No 2 but has two threads fitted for Nos 1 and 2 burners . .. . Per doz., $3.50

BURNERS

SUN, HINGE

No. 1—For ⅝-in. wick. Weight per dozen, 2½ lbs.....Per doz., $3.50

No. 2—For 1-in. wick. Weight per dozen, 3½ lbs.....Per doz., $5.00

DIETZ

No. 201—⅝-in. wick. Wing-lock cone. For Junior Lanterns....Per doz., $1.40

No. 262 1-in. wick. Wing-lock cone. For No. 2 Crescent lanterns and No. 30 Beacon Wall Lanterns . Per doz., $1.95

No. 401 ⅝-in. wick. Plain cone For Monarch and Iron Clad Lanterns . . . .Per doz , $1.40

No. 211 ¾-in. wick. Rising cone. Wing-lock burner. For Little Wizzard Lanterns. .....Per doz , $1.40

No. 272—1-in. wick. Rising cone. Wing-lock burner. For No. 2 Blizzard, No. 2 Large Fount Blizzard, No. 2 Blizzard Dash Lanterns and No. 2 Wizard Lanterns Per doz., $2.40

No. 282—1-in. wick. Rising cone. For D-Lite Lanterns.....Per doz., $2.40

No. 2-SO—1-in. wick. Wing-lock ratchet burner. Signal Oil. For XLCR Switchman's Lanterns.Per doz., $3.25

FARRIERS' PINCERS

No. 52—Wrought Iron, Polished Steel Jaws

Length, In.	12	14
Per Dozen	$17.00	19.00

One-Third Dozen in a Box

HELLER'S
Solid Cast Steel, Polished Jaws

Nos.	20	20A
Length, In.	14	16
Per Dozen	$24.00	30.00

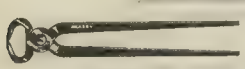
Quarter Dozen in a Box

HELLER'S
Solid Cast Steel, Polished Jaws

Nos.	24	24A
Length, In.	12	12
Per Dozen	$24.00	$28.80

Half Dozen in a Box

FARRIERS' NIPPERS



~~HICKORY~~
Hickory—Solid Cast Steel, Full Polished

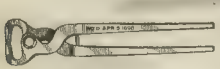
Nos.	12H	14H
Length, In.	12	14
Per Dozen	$24.00	28.80

Half Dozen in a Box

HELLER'S
Heller's Solid Cast Steel, Full Polished

Nos.	24A	26
Length, In.	12	14
Per Dozen	$24.00	28.80

Half Dozen in a Box



WAGNER AND LOWE
Made of Best Tool Steel; Simple, Light and Strong. Will Not Into a Smooth Surface.

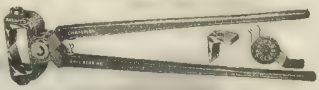
No.	18
Length, In.	13
Per Dozen	$42.00

Half Dozen in a Box

P. S. & W.
Forged Steel, Polished Jaws. Bearings P. S. & W. Co.'s Guaranteed Trade Mark

Nos.	132	134
Length, In.	12	14
Per Dozen	$11.00	12.00

Packed One-Sixth Dozen in a Box



CHAMPION
Drop Forged of Alloy Steel; Web Construction of Handles gives stiffness which insures easy cutting

No.	81
Length, In.	13
Weight Each, Oz.	28
Per Dozen	$33.00

Half Dozen in a Box

HOOF SHEAR
No. 81 Drop Forged Tool Steel, Interchangeable Knives; Ball Bearing Joint, Finish and Workmanship unexcelled

Length, In.	12	14
Per Dozen	$53.34	56.00

Packed One in a Box

Per Dozen Pairs.
Extra Knives for either Size.....$13.00
Knives are "right" and "left" and packed Six Pairs in a Box

FARRIERS' TOOLS

HOOF PARERS

DUROUF

Solid Cast Steel, Full Polished

Length, In.	12	14
Per Dozen	$24.00	$28.80

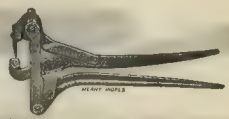
Half Dozen in a Box

KELLER'S

Keller's Solid Cast Steel, Full Polished

Nos.	22A	25
Length, In.	13	14
Per Dozen	$24.00	$26.00

Half Dozen in a Box



Adjustable and Detachable Knife Jaw

No. 52—GIANT HOOF PARERS

Per Dozen

Jaws Open 1¼ in., with Handle Movement of 5½ in., and can be Operated with One Hand. The Giant is not Clumsy, and Will Not Tangle with Other Tools in the Box. Makes a Straight Incision into Hoof. It Cuts Readily at First, Showing and Giving More Leverage as the Hard Shell of the Hoof is Reached. It is Simple in Construction, Having but Four Parts, All of Which are Interchangeable; Weight 2 Lbs. Each.....$40.00

One in a Box

EASY HOOF TRIMMERS

Hold the Foot in the ordinary manner and remove soft parts from bottom with your toe knife; then with the Trimmer begin at the heel and cut down and around the toe and back on the other side, removing the part at one cut and in one piece.

Avoid all wrenching or prying. Hold the tool as near upright as you can. Cut straight through to the blank jaw regardless of balls of other obstructions and with very little leveling with the knife or rasp, your job is complete.

Per Dozen

Easy Hoof Trimmer—12 in. Long, Jaw Opens 2 in., Cuts 1 in., Weight 2 Lbs.....$36.00

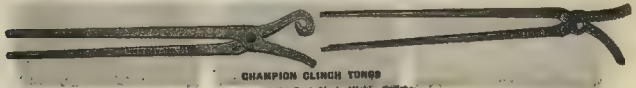
CHAMPION HOOF AND CLINCH NIPPERS

Solid Cast Steel, Full Polished

Per Dozen

No. 18—10 in. Long, Adjustable Jaw.....$24.00

Half Dozen in a Box



CHAMPION CLINCH TONGS

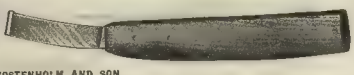
10 in. Long, Solid Cast Steel, Highly Polished

Per Dozen	Per Dozen
No. 18—Round End.....$36.40	No. 29—Straight End.....$36.40

Especially Useful on Colts and Nervous Horses

Quarter Dozen in a Box

FARRIERS' KNIVES



GEO. WOSTENHOLM AND SON
Highest Quality Sheffield Steel Blades

No. 100—4½ in. BONE HANDLE, 3½ in. Blade

Width of Blade, In.	½	⅝	¾
Per Dozen	5.00	6.00	6.00

Average Weight, per Dozen, 3¼ Lbs.

No. 200—5½ in. BEECHWOOD HANDLE, 2¾ in. Blade

Width of Blade, In.	½	⅝	¾
Per Dozen	7.50	7.50	7.50

Average Weight, per Dozen, 3 Lbs.

No. 52—HELLER'S ADJUSTABLE IRON HANDLE

Blade can be replaced when worn out. All blades hang alike, and the Shoer who gets used to one can use any other

Width Blade, In.	½	⅝	¾
Per Dozen	5.00	5.00	5.00

Average Weight, per Dozen, 5¼ Lbs.

Extra Blades, per Dozen	4.00	4.00	4.00

No. 35—KEYSTONE

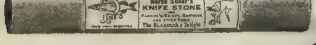
Patent Farriers' Knives in Sets of One Japanned Iron Handle and Three Assorted Blades, One Each ½, ⅝ and ¾ in.

Per Dozen Sets

No. 35—Keystone Farrier Knives and Blades.....$20.40
Weight, per Dozen Sets, 7½ Lbs.

Extra Blades, per Dozen.....$4.80

HORSESHOERS' KNIFE STONES

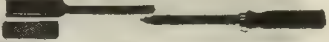


Per Dozen

No. 8—8 in. Long, for Farriers' Knives, Butterises and All Edge Tools; Fast Cutting Grit; Made to Fit the Hook of a Farrier's Knife. Something every Blacksmith Actually Needs.....$3.00

1½ Dozen in a Box; Weight, per Box, 2¾ Lbs.

HORSE TOOTH FLOATS



JOINTED, ADJUSTABLE FILE

Per Dozen

No. 620—Nickel Plated.....$25.25
No. 623—Polished.....21.00

SOLID, ADJUSTABLE FILE

Per Dozen

No. 624—Polished.....$17.25
One in a Box; Weight, 1¼ Lbs.

HORSE TOOTH FILES AND RASPS

Will Fit Any Standard Size Float

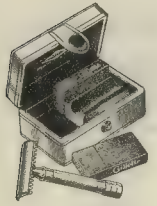
No. 1—Half File and Half Rasp	Per Dozen $3.50	No. 2—All Rasp	Per Dozen $3.75	No. 3—All File	Per Dozen $3.50

One Dozen in a Box; Weight, per Dozen, 1¼ Lbs.

SAFETY RAZORS

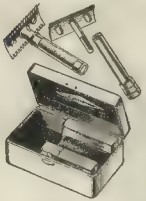
GILLETTE

"The Safety Razor with a World-Wide Reputation".



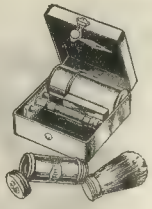
STANDARD RAZOR

Black Leather Case, Purple Plush Lined
Size of Case, 2½x3⅝x1⅝ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), Two Blade Boxes.
Each
No. 460—Triple Silver Plated Razor . $5 00
No. 460G Gold-Plated Razor and Gold-Plated Blade Boxes 6 00
Weight Each, about 5 Oz.



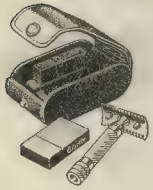
STANDARD RAZOR

Nickel-Plated Case, Velvet Lined
Size of Case, 3¹₁₆x1⅝x1⅝ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), Two Blade Boxes.
Each
No. 460B—Triple Silver-Plated Razor and Nickel-Plated Blade Boxes . . $5 00
Weight Each, about 10 Oz.



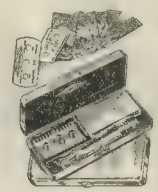
COMBINATION SET

Nickel-Plated Case, Velvet Lined
Size of Case 3½x3½x1½ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), 1 Blade Box, 1 Collapsible Badger Hair Shaving Brush, Stick Gillette Shaving Soap in Nickel Plated Holder.
Each
No. 461B—Triple Silver Plated Razor $7 00
Weight per Set, about 12 Oz.



BULL DOG

Black Leather Case, Velvet Lined; Heavy, Stocky Handle
Size of Case, 4½x2½x1¼ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), Two Blade Boxes.
Each
No. BD—Triple Silver-Plated Razor and Blade Boxes to Match $5.00
No. BDG Gold-Plated Razor and Blade Boxes to Match 6.00
Weight Each, about 6 Oz.



POCKET EDITION

Velvet Lined, Plain Metal Case
Size of Case, 4x2¹₁₆ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), One Blade Box.
Each
No. 500—Triple Silver-Plated Case, Razor and Blade Box. $5 00
No. 500B —Gold-Plated Case, Gold-Plated Razor and Blade Box . . . 6.00
Weight Each, about 4 Oz.

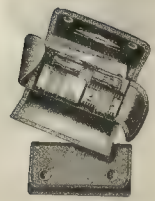
POCKET EDITION

Velvet Lined, Basket Pattern, Metal Case
Size of Case, 4x2⅛ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), One Blade Box.
Each
No. 501—Triple Silver-Plated Case, Razor and Blade Box. $5 00
No. 501B—Gold Plated Case, Gold-Plated Razor and Blade Box. . . . 6 00
Weight Each, about 4 Oz.

SAFETY RAZORS

GILLETTE

"The Safety Razor with a World-Wide Reputation".

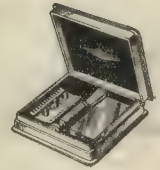


POCKET EDITION

Leather Case Soft Roll
Size Closed, 4½x2⅝x⅝ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), 1 Metal Blade Box; Indestructible Mutal Mirror
Each
No. 20—Triple Silver Plated Razor, Blade Box and Indestructible Metal Mirror $5.00
Weight Each about 6 Oz.

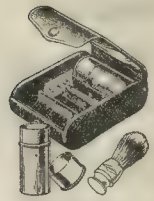
ARISTOCRAT

Silk Lined, Parisian Ivory Case
Size of Case, 3⅜x2¼x1⅛ in.
Beautifully Modeled Case, containing Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges); 2 Blade Box s.
Each
No. A—Triple Silver-Plated Razor and Two Parisian Ivory Blade Boxes $5.00
No. AG—Gold-Plated Razor and Two Gold-Plated Blade Boxes.....$6.00
Weight Each, about 5 Oz.



MILADY DECOLLETE GILLETTE

A Most Important Toilet Accessory for the Woman of Fashion. To keep the Underarm white and smooth.
Velvet and Satin Lined French Ivory Case
Size of Case, 3¼x3⅝x⅞ in.
Case contains Safety Razor and 12 Double Edged Gillette Blades in Metal Box Plated to Match Handle.
Each
No. MDG—14-K. Gold-Plated Razor and Blade Box $5 00
Weight Each about 8 Oz.



STANDARD COMBINATION SET

Black Seal Grain Leather Case, Velvet Lined
Size Closed, 3⅝x5x1⅝ in.
Case Contains Safety Razor and 12 Double Edged Gillette Blades (24 Shaving Edges), Two Blade Boxes, 1 Metal Holder 3¼x1¼ in., with Removable Bottom, Containing Gillette Shaving Stick.
Each
No. 0G—Triple Silver Plated Razor and Two Metal Holders $7 50
Weight per Set, about 1 Lb.

BULL DOG COMBINATION SET
Black Seal Grain Leather Case, Velvet Lined
Size Closed, 3⅝x5x1⅝ in.
Case Contains Safety Razor and 12 Double-Edged Gillette Blades (24 Shaving Edges), Two Blade Boxes, Indestructible Metal Mirror, Two Metal Holders 3¼x1¼ in., with Removable Bottom, one containing a Gillette Shaving Stick, the other containing Badger Hair Shaving Brush.
Each
No. 17 —Triple Silver Plated Razor $5 00
No. 17G Gold-Plated Razor 10 00
Weight per Case, about 1 Lb.

GILLETTE SAFETY RAZOR BLADES

Each Double-edged Blade is Vaselined, Wrapped in Wax Paper, placed in Individual Envelopes and put up in a Sealed Packet of either six or twelve blades.

	Per Package
No. 6G—Packet of 6 Blades	$0 50
No. 12G Packet of 12 Blades	1 00

Ten Packets of **Twelve Blades** each or Twenty Packets of **Six Blades** each are contained in pasteboard cartons.

SAFETY RAZORS

AUTO-STROP SAFETY RAZORS

Shaves, Strops Automatically, and Cleans Without Removing Blade from the Holder

Only the Auto-Strop Blade can be used in the Auto-Strop Frame and the Blade is not removed from the holder for stropping or cleaning. Its Adjustable feature is Supremely Simple. No unscrewing. No possibility of the Adjustment Slipping after being fixed—this feature permits the user to adjust at will for a light or close shave.

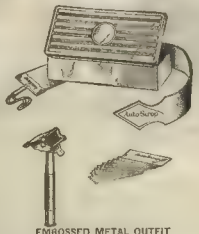
The Razor and Automatic Stropper are Combined in One Piece—the frame serves the purpose of holding the blade when shaving and also acts as an Automatic Stropper. The blade can be stropped without removing it from the frame by inserting the Flexible Horsehide Strop, which accompanies each Razor, between the frame.

COMBINATION SET
Size of Case, 3½x4¼ inches

Each
No. 15—Morocco Grain Black Leather Case..... $6.50
One Set in a Cardboard Box; Weight about 1 Lb.
Contains the Following
1 Auto-Strop Self-Stropping Razor, Quadruple Silver Plated.
12 Auto-Strop Razor Blades.
1 Shell Horsehide Strop, Specially Prepared, 15 in. Long, 1⅝ in. Wide.
1 Rubberset Badger Hair Brush in Silver-Plated Tube.
1 Stick of Colgate's Shaving Soap in Silver-Plated Push Bottom Tube.
1 Black Morocco Grain Leather Case, Size 3½x4¼ in.

COMBINATION SET
Size of Case, 3¾x5 in.

Each
No. 25—Morocco Grain, Black Leather Case..... $7.50
One Set in a Cardboard Box, Weight about 1¾ Lbs.
Contains the Following
1 Auto-Strop Self-Stropping Razor, Quadruple Silver Plated.
12 Auto-Strop Razor Blades.
1 Shell Horsehide Strop, Specially Prepared; 15 in. Long, 1⅝ in. Wide.
1 Rubberset Badger Hair Brush in Silver-Plated Tube.
1 Stick of Colgate's Shaving Soap in Silver-Plated Tube.
1 Black Morocco Grain Leather Case.



EMBOSSED METAL OUTFIT
Size of Case, 1⅝x4½ inches

Each
No. 251—Embossed, Nickel-Plate Case, Velvet Lined... $3 00
No. 2523—Embossed, Polished Gun Metal Case, Velvet Lined . 3 00
One in a Cardboard Box; Weight each about ¾ Lb.
Contains the Following
1 Auto-Strop Self-Stropping Razor, Quadruple Silver Plated.
12 Auto-Strop Razor Blades.
1 Shell Horsehide Strop, Specially Prepared 15 in. Long, 1⅝ in. Wide.
1 Embossed Metal Case, Velvet Lined, Size 1⅝x4½ in.

AUTO-STROP BLADES

Auto-Strop Blades are carefully manufactured, finished and tested by experts and are for use in the Auto-Strop Safety Razor only. Each blade is contained in a moisture-proof wrapper, then packed in a pasteboard carton.

Per Carton
Carton of 12 Blades $1 00
Carton of 6 Blades 50

AUTO-STROP STROPS

Auto-Strop Strops are manufactured from a fine grade of selected leather; a special preparation containing no emery or other harmful substance is worked into the leather, but which will permanently insure best results in connection with the Auto-Strop Safety Razor. Separate Auto-Strop Strops

Each
No. X—Size 1⅝x15 in. $0 50
No. XX—Size 1⅝x19 in. 1.00

HATS, CAPS AND MILLINERY FLOWERS FOR HOT WEATHER WEAR

MISSES' STRAW HATS

Ridge Mushroom—Imported peanut body, mushroom block ridge crown, wide brim with brown binding wide brown satin band. 1 doz. in pkg.

5A577B—NATURAL GRASS. Doz. **$2.25**

New Mushroom Shape — Imported colored peanut body in this season's popular shades, new oval crown wide mushroom brim, assd. color wide satin [illegible] Assd. 1 doz. in box.

5A[illegible]—Assd. NAVY RED and DK GREEN. Doz. **$4.50**

MEN'S PLAID SPRING CAP

Exceptional values at the price. They possess the features that will attract trade.

5A7319—Popular colorings, 6-4 crown, button top, taped seams, reeded sweat. Men and young men prefer this [illegible] effect of the sports [illegible] Assd. sizes 6¾ to 7¼. Assd. plaids. 1 doz. in box.

Doz. **$2.75**

MEN'S PLAID SILK CAP

A popular spring and summer seller at a moderate cost.

5A7340—Plaid silk, large colored [illegible] [illegible] [illegible]

STRAW HATS

Here are the biggest straw hat values on the market today. Staple and novelty shapes in harvest hats and popular dress straws. A point by point comparison of our lines with those offered by other jobbers will convince you that this is the place to buy your Spring stocks in all lines.

HARVEST HATS

Splendid brand new lot of staple and novelty shapes for men, boys and children. Low prices are made with quick sales in view. **Asstd. sizes:** Mens 6¾, 7, 7¼, boys, 6 to 7

Peanut Body—4 dent crown 4½ to 5 in. roll brim. 1 doz. in pkg.
5A5730—Men's
5A5705—Boys'
Doz. **$1.40**

Peanut Body—Harvest crown, 5 to 6 in. wide, plaster brim. 1 doz. in pkg.
5A5709—Men's ..... Doz. **$1.60**

Peanut Body—Round crown, 4½ to 5 in. roll brim. Black leatherette band. 1 doz. in pkg.
5A5706—Men's
5A5707—Boys'
Doz. **$1.75** **1.60**

Peanut Body—4 dent pinch crown, 4½ to 5 in. roll brim. 1 doz. in pkg.
5A5708—Men's
5A5706—Boys'
Doz. **$1.75**

Peanut Body—4 dent pinch crown, 4½ to 5 in. roll brim. brown leatherette band. 1 doz. in pkg.
5A5704—Men's
5A5705—Boys'
Doz. **$1.75**

Peanut Body—Round crown, 4½ to 5 in. roll brim, painted with colored aeroplane design. 1 doz. in pkg.
5A5710—Men's
5A5711—Boys'
Doz. **$1.75**

Andesro Mexican—4 dent pinch crown, 4 to 4½ in. pan brim. 1 doz. in pkg.
5A5713—Men's
5A5713—Boys'
Doz. **$2.00**

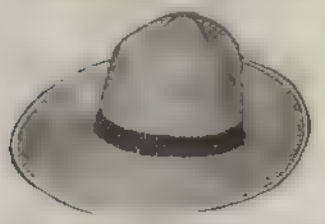
Peanut Body—Creased alpine crown, 4 to 4½ in. roll brim, cadet crown band, eyelet vent holes, leather patch sweat. ½ doz. in pkg.
5A5714—Men's ..... Doz. **$2.00**

Andesro Mexican—Round crown, 4 to 4½ in. roll brim. 1 doz. in pkg.
5A5712—Men's
5A5711—Boys'
Doz. **$2.00**

Peanut Body—4 dent pinch crown, 4½ to 5 in. roll brim, leatherette band, eyelet ventilators, leather patch sweat. ½ doz. in pkg.
5A5713—Men's ..... Doz. **$2.10**

Peanut Body—4 dent alpine crown, 4 to 4½ in. roll brim with brown binding, black leatherette band, eyelet ventilators, leather patch sweat. ½ doz. in pkg.
Doz. **$2.25**

Ararat Body—Corrugated alpine crown, 3 to 3½ in. roll brim with brown binding, double black leatherette band. ½ doz. in pkg.
5A5736—Men's. ..... Doz. **$2.25**



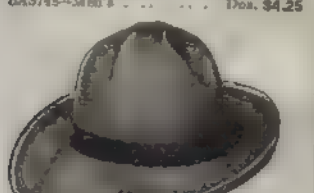
Ararat Body—[illegible] crown, 3 to 3½ in. roll brim with brown binding, brown leatherette band. ½ doz. in pkg.
5A5737—Men's
Doz. **$2.25**

Rolcado Mexican—Four dent alpine crown, wide pan brim with fancy binding, black leatherette band, [illegible]
[illegible] **$4.25**

Genuine Curacao Body—Light wt. panama weave, wide brim with brown binding [illegible]
Doz. **$4.25**

Rolcado Mexican—2 dent ridge crown, wide roll brim with brown binding, double black leatherette band, [illegible]
5A5743—Men's
Doz. **$4 25**

Tlaxlaco Mexican—Four dent crown, wide roll brim with [illegible] binding, double black leatherette band, [illegible] body, leather patch sweat. Asstd. sizes
5A5745—Men's ..... Doz. **$4.25**



Genuine Curacao Body — Fine panama weave, 4 dent crown roll brim with brown binding, black silk band, leather patch sweat. ½ doz. in pkg.
5A5758—Men's Doz. **$4.50**

MEN'S LIGHT WEIGHT MEXICAN PALM HARVEST HAT

Make a leader value of this big bargain number. Asstd. sizes 6¾ to 7½.

5A7630—Light wt. Mexican palm, ridge crown, famous Catrin fine woven body, 4 to 5 in. wide roll brim, asstd. black and brown silk band, leather patch sweat. Asstd. ½ doz. in pkg.
Doz. **$3.50**

Genuine Curacao Body — Fine panama weave, 4 dent crown roll brim with brown binding, brown and straw silk band, leather patch sweat. ½ doz. in pkg.
5A5756—Men's
Doz. **$4.50**

5A5757 Genuine Curacao body, fine panama weave, corrugated alpine crown, roll brim with brown binding, black silk band, leather patch sweat. ½ doz. in pkg.
Doz. **$5.25**

MEN'S DRESS STRAWS

All of this season's finest blocks and styles in high grade hats including the popular Sennit yacht as well as soft brim leghorns, Javas, etc., in negligee shapes. **Sizes:** 6¾ to 7⅛. Solid or your asst. ½ doz. in box.

Italian Panama—Imported fine woven Italian Panama, featherweight braid, nobby alpine shape with wide 2¾ large black band, rounded sweat.
5A5638—5 in. crown, 2½ in. brim
Doz. **$12.00**

Italian Panama—Imported fine woven Italian featherweight braid, ridge telescope crown, with 1¾ large blue band, rounded sweat.
5A5639—4½ in. crown, 2¾ in. brim.
Doz. **$15.00**

Java Alpine—Fine weave Java body, clear white bleach, alpine crown, roll brim 1⅜ inch silk band, reeded sweat.
5A5635—5 in. crown, 3½ in. brim.
Doz. **$16.50**

Java Yacht—Fine weave Java body, clear white bleach, light wt. sailor yacht shape 2¾ large black band, reeded sweat.
5A5637—2¾ in. crown, 2½ in. brim
Doz. **$18.00**

Porto Rican Telescope—Genuine fine woven body, an Palm Beach, new design cross spun braid, 2¾ inch crown, silk band, rounded sweat. Here is a proven seller that will liven up your stock.
5A5603—4 in. crown, 2¼ in. brim.
Doz. **$24.00**

Sennit Yacht—Extra fine imported Jap sennit braid, clear white bleach, narrow roll and yacht shape, with wide edge band, reeded leather sweat.
5A5613—3½ in. crown, 2¾ in. brim.
Doz. **$24.00**

Sennit Yacht—Imported Jap sennit braid, white bleach, sailor or yacht shape, 3 in. crown, 1¾ in. brim, 1⅜ inch silk band, reeded sweat.
5A5670—Cable edge brim } Doz.
5A5671—Saw edge brim . . . . } **$36.00**

Our Finest Sennit Yacht—Finest quality imported Jap sennit braid, clear white bleach, fine weave, wide roll yacht shape, 3¼ inch crown, 1¾ inch silk band, full reeded leather sweat.
5A5601—3½ in. crown, 2¾ in. brim.
Doz. **$36.00**

BOYS' DRESS STRAWS

Sizes: 6¼ to 6⅞. Solid or your asst. SPECIFY SIZES

Porto Rican Alpine—Genuine fine woven body, an Palm Beach, new design crossed spun braid, 2¼ inch crown, silk band, rounded sweat. Has of this color are very popular this season.
5A5604—5 in. crown, 2½ in. brim. To Arr.

Java Alpine—Fine woven Java body, natural color, alpine crown, 1¾ inch black Palm Beach weave sweat, 1⅜ inch brim.
5A5619—5¼ in. crown, 2¾ in. brim.
Doz. **$15.00**

Java Telescope—Fine woven Java body, natural color, nobby telescope shape creased crown, with 1¾ inch band, rolled with 2¼ inch brim.
5A5633—5¼ in. crown, 2¾ in. brim.
Doz. **$18.00**

MEET ALL PRICE COMPETITION ON STRAW HATS WITH A STOCK SELECTED FROM THIS AND NEARBY PAGE

MEN'S JAP PANAMAS

Buy from the showing of finest Jap panamas perfect in bleach and finish. **Sizes:** 6¾ to 7⅝. Shapes of the most quality and weave. Solid or your asst. ½ doz. in box.

Yacht—Genuine Toyo Jap panama, clear white bleach, flat sailor or yacht shape, 3 inch crown, 1¾ large dk. grey stripe band, rolled brim, a leader value.
5A5643—3¼ in. crown, 3½ in. brim
Doz. **$22.50**

Alpine—Extra fine weave Toyo Jap panama, clear white bleach, alpine crown, fine creased crown, 1¾ large black band, rolled brim.
5A5647—3¾ in. crown, 2¾ in. brim.
Doz. **$24.00**

Telescope—Finest Toyo Jap panama, extra fine weave, clear white bleach, telescope crown, 1¾ large black band.
5A5646—3¼ in. crown, 2¾ in. snap brim.
Doz. **$30.00**

Alpine—Finest Toyo Jap panama, extra fine weave, clear white bleach, creased alpine crown, 1¾ large black band, rolled brim.
5A5648—3¼ in. crown, 2¾ in. brim.
Doz. **$30.00**

MEN'S GENUINE PANAMAS

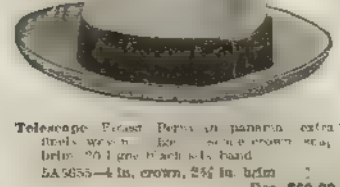
We've put the Indian shape and finish into our own factories. That is why we can sell such good hats. **Sizes:** 6¾ to 7⅝, solid or your asst. ½ doz. in box.

5A5651—Genuine Ecuadorian panama, selected fine quality, ridge crown, 1¾ large black silk band.
Doz. **$45.00**

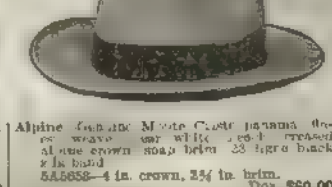
Telescope—Extra fine Ecuadorian panama, selected fine quality, ridge crown, snap brim, 1¾ large black silk band.
5A5654—4 in. crown, 2¾ in. brim.
Doz. **$48.00**

Alpine—Extra fine Ecuadorian panama, selected fine quality, ridge crown snap brim, 1¾ large black silk band.
5A5654—3¾ in. crown, 2¾ in. brim.
Doz. **$54.00**

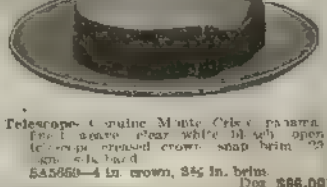
Alpine—Genuine Peruvian panama, extra fine weave, clear white bleach, ridge crown snap brim, 1¾ large black silk band.
5A5656—3¾ in. crown, 2¾ in. brim.
Doz. **$80.00**



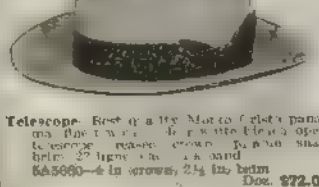
Telescope—Finest Peruvian panama, extra finely woven, fine weave crown snap brim, 1¾ large black silk band.
5A5655—4 in. crown, 2¾ in. brim
Doz. **$60.00**



Alpine—Genuine Monte Cristi panama, finest weave, clear white bleach, creased Alpine crown snap brim, 1¾ large black silk band.
5A5658—4 in. crown, 2¾ in. brim.
Doz. **$60.00**



Telescope—Genuine Monte Cristi panama, finest weave, clear white bleach, open telescope creased crown, snap brim, 1¾ large black silk band.
5A5659—4 in. crown, 3¼ in. brim.
Doz. **$86.00**



Telescope—Best quality Monte Cristi panama, fine weave, clear white bleach, open telescope, regular crown, fancy snap brim, 1¾ large black silk band.
5A5660—4 in. crown, 2¾ in. brim
Doz. **$72.00**

HUNTING KNIVES

Lock back. Stag handle. One blade, glazed. Steel bolster Steel lined.

No.	147
Length, inch	4⅝
Per dozen	$28.00

Lock back. Stag handle. One blade, half crocus polished. Nickel silver bolster. Brass lined.

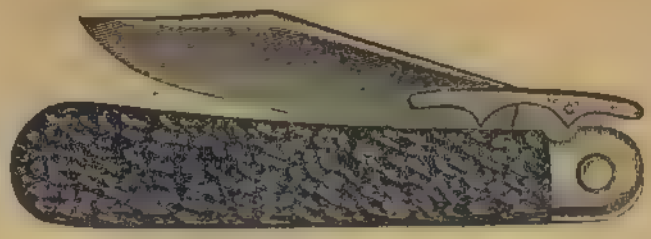
No.	146
Length, inch	4½
Per dozen	$32.00

Ebony handle. One heavy blade, glazed. Polished steel cap and bolster. Steel lined.

No.	128
Length, inch	5½
Per dozen	$30.00

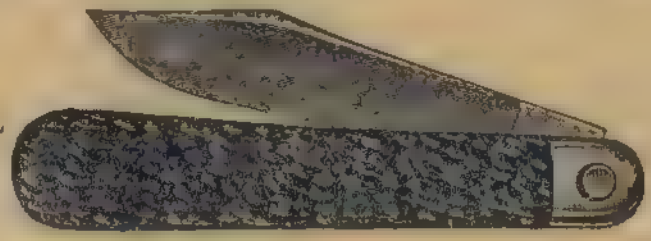
Average weight per dozen, 3 to 5 lbs. One-half dozen in a box.

PRESS BUTTON



Press button hunting. Stag handle. One blade, glazed. Nickel silver bolster. Iron lined.

No.	1005
Length, inch	4⅞
Per dozen	$30 00

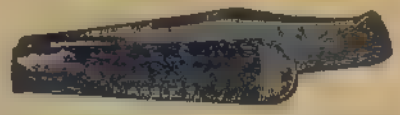


No. 1000

Stag handle. One blade, glazed. Nickel silver bolster. Steel lined.

Nos.	1000	510
Length, inch	4⅞	4
Per dozen	$30.00	28.00

SAFETY FOLDING



Cut shows compact form of knife when folded. Stag handle. Nickel silver hilt and bolster, with sheath for use when knife is folded.

Nos.	83	85
Length blade, inch	4½	5
Weight, ozs	4	6
Each	$3.30	4 40

A good all around knife for sportsmen. The blade is made sharp at back of point for ripping, and the back is an excellent fish scaler.

No.	78
Length of blade, inch	4
Weight, ozs	3½
Each	$1.50

HUNTING KNIVES

MARBLE WOODCRAFT

Leather handle with sheath. An entirely new knife in design containing all of the essential features necessary for sticking, skinning, cleaning and breaking bones.

No.	40
Length of blade, inch	4½
Weight, ozs	5
Each	$2.25

IDEAL, WITH HILT

Heavy forged steel, hand tempered blade, adapted to sticking and skinning. Leather handle, with colored hard fibre and brass washers. Aluminum tip. Each complete with leather sheath.

No. 45—Length of blade, inch	5	6	7
Weight, ozs	5	6½	8½
Each	$2.75	3.00	3.25

Same as No. 45. With stag handle and tip.

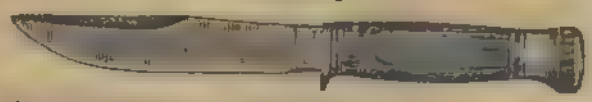
No. 46—Length of blade, inch	5	6
Weight, ozs	5	6½
Each	$3 50	3.75

IDEAL, WITHOUT HILT

Blades hand forged from razor steel, oval ground, stag handle with guard. Well made leather sheaths.

No. 42—Length of blade, inch	5	6	7
Weight per dozen, lbs	5	7	8
Each	$3 50	3.75	4.00

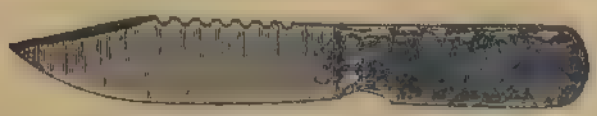
EXPERT



Leather handle, aluminum tip, complete with sheath. Particularly designed to meet requirements of professional hunters and trappers. The back of blade is designed for scraping skins while on the forms. Stag tip.

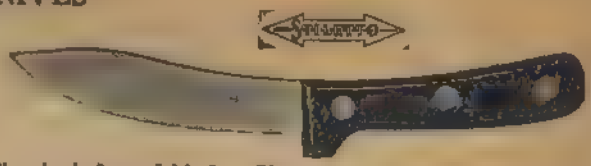
No.	545
Length of blade, inch	5
Weight, ozs	3½
Each	$2 50

DE WEESE PATTERN



Stag handle, with sheath. Has a dull saw back, on which the thumb is placed when skinning. When sticking the little finger should be doubled up, letting the end of handle rest against it. This takes the place of a hilt.

No.	62
Length of blade, inch	4
Weight, ozs	5
Each	$2.00



Five inch forged blade. Shaped ebony handle with three brass rivets. Without sheaths.

No.	175
Weight per dozen, lbs	3½
Per dozen	$21.00

SHEATHS FOR NO. 175

Weight per dozen, lb	1
Per dozen	$9.00

Ebony handles. Three large brass rivets. 4-inch blade; 7½ inches over all. Complete with leather sheath.

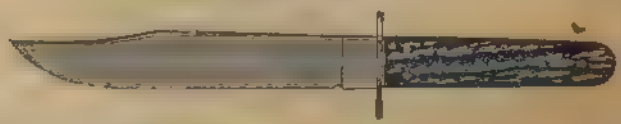
No.	740
Weight per dozen, lbs	1½
Per dozen	$14 00

MARBLE

Trout knife, with sheath. Made from finest forged cutlery steel. Handle, terminating in a ring one inch in diameter, is ⅛-inch thick.

No.	79
Length blade, inch	2
Weight, oz	1
Each	$0 75

UNIVERSAL



Forged polished crucible steel blades. Clip pattern, riveted stag handles, steel guards. Complete with leather sheaths.

No. 0020—Blade, inch	5	6	7
Weight per dozen, lbs	3	4	5
Per dozen	$32 00	34 00	36 00

WADE & BUTCHER

English forged steel blade. Extra fine, hollow ground. Fibre handle, brass trimmings and guard, leather sheath.

No. 1827—Length blade, inch	5	6
Weight per dozen, lbs	6	8
Per dozen	$48.00	60.00

All above, one-half dozen in a box.

YANKEE PATTERN

Full Polished

Soft steel body. Crucible forged steel bit, extra tempered. Steel faced poll. Tapering box eye. Select second growth hickory sportsmans pattern handle.

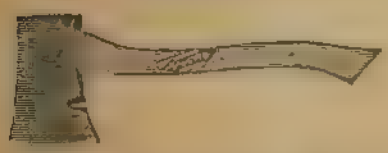
No.	SP3/0
Width of cut, inch	2⅞
Length over all, inch	14¼
Weight per dozen, lbs	19
Per dozen	$22.75

YANKEE PATTERN

Rustless Black Finish

Nos.	SGM3/0	SGM1	SGM2
Width of cut, inch.	2⅞	3¼	3⅜
Length over all, in.	14¼	16½	16½
Weight per doz, lbs	18	22	26
Per dozen	$22 50	22.75	23.00

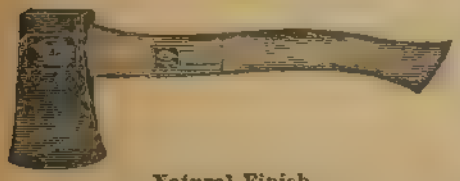
BOY SCOUT



Rustless black finish. Polished bit, ground edge. Nail puller. Mission hickory handle.

Nos.	With Sheath SSA	Without Sheath SSAS
Width of cutting edge, inch	2⅞	2⅞
Length over all, inch	15½	15½
Weight per dozen, lbs.	21	21
Per dozen	$25.25	20.50

CUB



Natural Finish

Soft steel body. Forged steel bit. Solid punched eye. Hardened poll. Hickory handle.

Nos.	C 1	C 2
Width of cutting edge, inch.	3¼	3¼
Length over all, inch.	15½	18
Weight per dozen, lbs	24	30
Per dozen	$19.50	20 00

All above, one-half dozen in a box.

SPORTSMANS AXES
MARBLES SAFETY

GUARDED

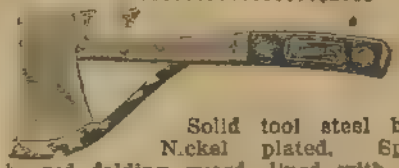
Solid tool steel. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates.

Nos.	2	5
Length, inch	11	12
Weight each, ozs.	20	27
Each	$3.25	3.50

Guard folded.

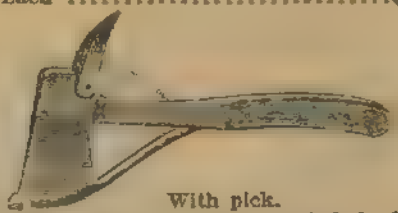
Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Selected hickory handles.

Nos.	5	6
Length, inch	11	12
Weight each, ozs.	16	21
Each	$2.00	2.25



Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates. Nail claw which can be folded.

No.	2½
Length, inch	11
Weight each, ozs.	20
Each	$3.50

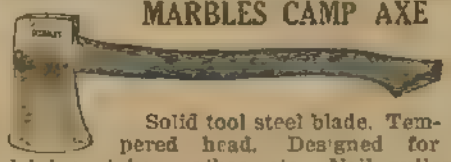


With pick.

Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates. Pick attachment which can be folded.

No.	2 P
Length, inch	11
Weight each, ozs.	20
Each	$4 50

MARBLES CAMP AXE



Solid tool steel blade. Tempered head. Designed for driving stakes, spikes, etc. Nail puller has tempered jaws. Selected hickory handles. Blade, 3⅛x5¼ inches.

Nos.	9	10 A	10 B
Length handle, inch.	14	16	20
Weight each, ozs.	22	30	34
Each	$1 50	3 00	3.00

All above, two in a box.

PLUMBS

Non-Rusting Finish

Hand forged. Fine grade crucible steel. Solid punched eye. Bit ground sharp. Mahoganized handle.

No.	674HF
Size, inch	2
Width of cut, inch	3¼
Weight per dozen, lbs.	29
Per dozen	$21.00

PLUMBS BOY SCOUT
WITH SHEATH

Rustless black finish. Nail puller. Hickory handle, Mission finish. Sheath of heavy russet tanned leather.

No.	PSAS
Width of cutting edge, inch	2⅞
Length over all, inch	15½
Weight per dozen, lbs.	23
Per dozen	$25.50

LITTLE GIANT
BOY SCOUT

Cast steel. Painted black with polished bit. Green handle.

No.	100
Width of cutting edge, inch	■
Length over all, inch	14
Weight per dozen, lbs.	18
Per dozen	$12.00

All above, one-half dozen in a box.

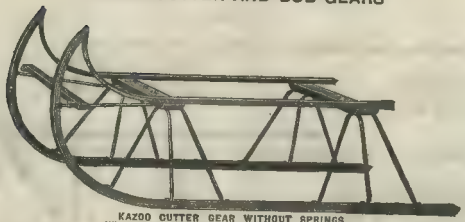
AXE SHEATHS

For hunters, boy scouts and sportsmen's axes. Made of russet leather with flap and brass knob fastening. Will fasten to belt.

No.	12
Length, inch	6
Width at top, inch	2¾
Width at bottom, inch	3½
Weight per dozen, lbs.	2
Per dozen	$8.25

Open stock.

LIGHT CUTTER AND BOB GEARS



KAZOO CUTTER GEAR WITHOUT SPRINGS

Will Take a Buggy Body Any Width Under 28 Inches

Every Part of this Gear is Substantially Built. The Drawbar is Ironed so as to Take Regular Buggy Shafts; Can be Used Straight or Side Hitch

Kazoo Sleigh Gear—Height 14 in.; Weight 50 Lbs. . . . . Each
Shipped Knocked Down, Only Takes a Few Minutes to Set Up $12.00

TWENTIETH CENTURY BOB GEAR

Side or Center Hitch

Constructed on Mechanically Correct Principles. Irons are Made of One Piece of Open Hearth Steel, and Securely Attached to Rave and Runner; Inside Brace is ⅝ in. Round Steel; Raves, ⅜ in. Wide. These Bobs are Oscillating which is effected in a simple and mechanical manner, their Strength and Durability are beyond question.

No. 45—1¼ in. Runners; Painted Red and Striped Black; Weight 80 Lbs. . . . . Per Set $6 00

SHAFTS

	Per Pair
1½ in.; White, Not Painted	$5.00
1½ in.; Painted	6.50

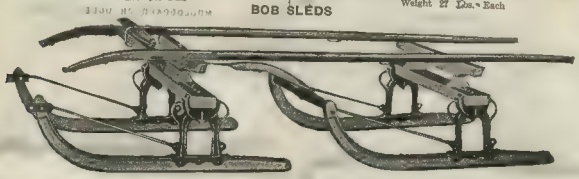
Weight 23 Lbs. per Pair

POLES

	Each.
2x2½ in.; Whits, Not Painted	$2 00
2x2½ in.; Painted	3 50

Weight 27 Lbs. Each

BOB SLEDS



McGREGOR

An Ideal Sled for Pleasure, R. F. D., or Delivery Purposes

A Perfect Oscillator, Handsome, Light and Substantial. Made of the Very Best Material Throughout; Neatly Finished. The Best Malleable Knee and the most Perfect Oscillating Boxes ever put on a light sled. Furnished with Shafts

	Per Set
1¼ Inch Runners	$28.00
1½ Inch Runners	32 00
	Each
Extra for Pole, and Whiffletree Instead of Shafts	$3.00
Extra for Pole in Addition to Shafts	6.00

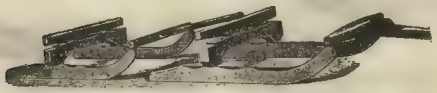
RUNNER ATTACHMENTS

MICHIGAN

They are Easily Attached, and Will Fit on to Almost Any Vehicle That Runs on Wheels, and Tracks with the Sleighs

	Per Set
No. 11—Size of Axle to be Used on, ⅞ and 1 in.; Size of Tire and Knee, ¼x1 in.; Weight per Set, 70 Lbs.; Capacity, 1000 Lbs.	$15 00
No. 12—Size of Axle to be Used on, 1⅛ and 1¼ in.; Size of Tire and Knee, ⅜x1¼ in.; Weight per Set, 90 Lbs.; Capacity, 2000 Lbs.	18.00
No. 13—Size of Axle to be Used on, 1⅜ and 1½ in.; Size of Tire and Knee, ⅜x1½ in.; Weight per Set, 140 Lbs.; Capacity, 3000 Lbs.	22.00

FINISHED BOB WOODS



Including Runners, Beams, Bolsters and Reach; Finished Ready to Iron, to be Used with McGregor Knees

	Per Set		Per Set		Per Set
1¼ in. Runners	$12.00	1⅜ in. Runners	$14.00	1½ in. Runners	$16.00

Shafts or Poles Extra

McGregor Knees Extra

FOR FARM, LIGHT OR HEAVY TOTE SLEIGHS

For McLaren Knees, Including Runners, Beams, Bolsters, Reach, Rollers and Pole

	Per Set		Per Set
2x5x6 ft. Runners	$20.00	2½x6x7 ft. Runners	$24 00
2x6x7 ft. Runners	22.00	2½x6x7 ft. Runners	26 00

Knees Extra

FOR START PIN SLEIGHS

Including Runners, Benches, Bolsters, Rollers, Reach and Pole

	Per Set		Per Set
2x5x6 ft. Runners	$20.00	2½x6x7 ft. Runners	$26 00
2x6x7 ft. Runners	22.00	2½x6x7 ft. Runners	30.00

CUTTER RUNNERS

SWELL BODY OR SQUARE BOX

	Per Pair
One Seat Runner 1¼ in. Deep	$1 50
Two Seat Runner 1⅝ in. Deep	2.00

Weight per Pair: One Seat, 12 Lbs.; Two Seat, 22 Lbs.

PORTLAND

	Per Pair
One Seat Runner 1¼ in. Deep	$2.00
Two Seat Runner 1⅝ in. Deep	2.50

BOB RUNNERS

GROCERY

Size, In.	1½x1½—5 ft.	1½x2 —5ft.	1½x2½—6ft.
Weight per Set of 4, Lbs.	15	25	30
Per Set of 4	$2 10	2.40	3.00

Sizes are given in the following order: Width and Depth

HIGH BEND

Size In.	1¾x2½—6 ft	2x4—6 ft.
Weight Set, Lbs.	30	65
Per Set of 4	$2 80	4.25

ORDINARY BEND

Size of Runners	2x4 in. x 6 ft.	2x5 in. x 7 ft.
Weight per Set of 4 Lbs.	65	100
Per Set of 4	$4.35	7 00

Note: Sizes are given in the following order: Width, Depth, Length.

Sizes Used for McGregor Knives

Size of Runner	1¼x2½ in.x 6 ft.	1½x3 in.x 6 ft.	1¾x3 in.x 6 ft.
Wt. Set of 4 Lbs.	20	25	30
Per Set of 4	$2.90	3 50	4 00

CAMEL BACK
Solid Bend

Size of Runner	2x6	2x6	2½x6	2½x6	3x5
Length, Ft.	6	7	7	7	6
Wt. Set of 4, Lbs.	100	120	140	160	170
Per Set of 4	$7.20	8.40	9.80	10.80	16.00

Sawed Rough Logging

Size of Runner	2½x6 8 ft.	3x6—8 ft.
Wt. per Set of 4, Lbs.	180	200
Per Set of 4	$32 40	43.20

Cut to Order Only

Size of Runner	3x9—9 ft.	4x9—9 ft.
Weight per Set of 4, Lbs.	300	400
Per Set of 4	$50 00	60 00

MEASURING TAPES OR TAPE LINES

Brass Folding Handles, Brass Rings and Trimmings With ½-in Cotton Tape. Waterproof Coated

ASKIN

No. 28A—Aluminum Finish Cases

Lgth, Ft.	25	33	50
Per Doz.	$ 7.45	7.95	9.95

Lgth, Ft.	66	75	100
Per Doz.	$11.95	14.95	17.90

ASKIN UNIVERSAL

Cases Brass Bound and Sides Handsomely Cream Enameled.

Nos.	710	713
Length Ft.	25	50
Per Dozen	$7.45	9.90

"UNIVERSAL"

With ½-in. Linen Corded Tape. Waterproof Coated Cases Brass Bound and Sides Handsomely Enameled in Maroon. Brass Folding Handles, Brass Rings and Trimmings.

Nos.	730	733	736	736
Length, Ft.	25	50	75	100
Per Dozen	$9.30	14.85	18.60	23.20

Half dozen in a box.

BEND LEATHER CASE

With ½-in. Linen Corded Tape Waterproof Coated. Cases Russet Leather Nicely Finished in Natural Color with Folding Handles and Trimmings.

No. 3200—				
Length, Ft.	25	50	75	100
Per Dozen	$26.25	33.50	38.25	43.00

Half dozen in a box.

MEASURING TAPES OR TAPE LINES

LUFKIN "RELIABLE JUNIOR"

Double Folding Flush Handle Opened by Pressing on Opposite Side Hard Leather Case, Nickel Plated Trimmings. Measurements Guaranteed. ½ In. Tape, Marked Feet and 12ths, Inches and Sixteenths

		Each
No. 100	Length, 25 Ft Diam. of Case, 2¼ Ins	$7.20
No. 103	Length 50 Ft. Diam. of Case, 2¾ Ins	8.80

One in a box

LUFKIN

Cases made of Steel, Covered with Handsome Mottled Black "Auto Leather," Nickel Plated trimmings. Folding Flush Handle, Opened by Pressing Button on Opposite Side

Three-eighths Inch Tapes with Nubian Finish. Graduated One Side Only, in Feet, Inches and Eighths.

Nos.	550	553	555	556
Length, Feet	25	50	75	100
Wt., Each, Ozs.	7	12	17	21
Each	$5.70	7.00	9.05	11.60

Packed one in a box.

CHALK LINE REELS

Polished Beechwood. Holds 60 Ft. of Lines

Reel Only

Diameter, 2¼ Ins. Length, 4 ins

		Per Dozen
No. 11—Wt., Per Doz., Abt. 2 Lbs.		$1.60

Diameter, 2 Ins. Length, 3 Ins.

		Per Dozen
No. 12—Wt., Per Doz., Abt 1½ Lb.		$ .75

No. 11, one dozen, No. 12, three dozen in a box.

Diameter, 2 Ins. Length, 3 Ins. Reel, with 6-in. Steel Scratch Awl, Beech Handle and Brass Ferrule.

		Per Dozen
No. 14—Wt., Per Doz., Abt. 5½ Lbs.		$1.65

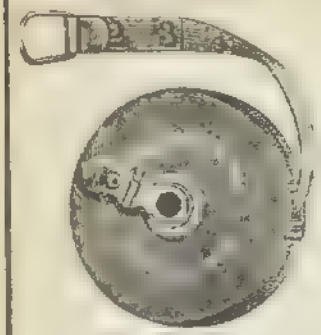
One dozen in a box.

We Especially Solicit and Pay Particular Attention to Mail Orders

MEASURING TAPES OR TAPE LINES

LUFKIN

Hard Leather Case. Marked One Side Only



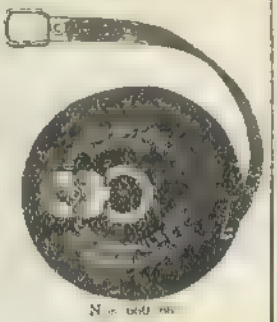
Nos. 500 to 506

Chestermans' Pattern. Metallic.

Brass Trimmings. ½-In Linen Tape, with Metallic Warp Folding Handle

Nos		500	501
Feet		25	33
	Each	$4.50	5.30

Nos.	503	505	506
Feet	50	75	100
Each	6.65	4.20	10.35



Nos. 660 to 663

JUNIOR METALLIC

Nickel Plated Trimmings. Double Folding Flush Handle. Woven Linen Tape, with Metallic Warp

Nos.	660	663
Diam of Case, In.	2½	3½
Feet	25	50
Each	$4.80	5.85

Nos. 410 to 416

'SENTINEL'

Brass Trimmings. Folding Handle. ⅜-In. Pure Linen, with Leather the First 4 Ins

Nos.	410	413
Feet	25	50
Each	$3.65	4.80

Nos.	415	416
Feet	75	00
Each	6.10	7.30

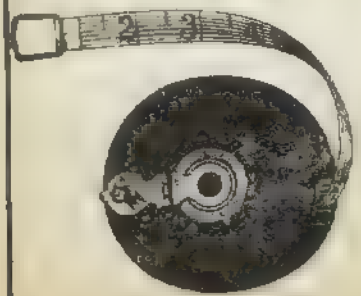
Nos. 400 to 406

'STERLING'

Nickel Plated Trimmings Flush Handle. ⅜-In Pure Linen Tape with Leather the First 4 Ins

Nos	400	403	404
Feet	25	50	66
Each	$3.65	4.80	5.70

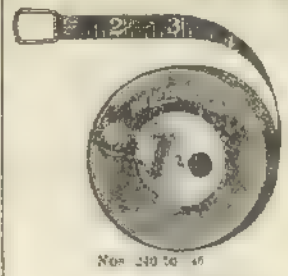
Nos.	405	406
Feet	75	100
	6.15	7.30



Nickel Plated, Highly Polished Steel Case. Nickel Plated Brass Folding Handle. Trimmings and Ring Frost Coated (Non-reflecting). Fine Steel Flexible Tape. Etched Markings.

RIVAL

¼-In. Tape. Marked One Side Only in Feet, Inches and 8ths



Nos. 240 to 246

Nos.	240	243
Length, Feet	25	50
Diam of Case, In.	2½	3½
Wt., Doz., Lbs	6	9½
Each	$5.85	7.20

Nos.	245	246
Length Feet	75	100
Diam of Case In	3½	4½
Wt., Doz. Lbs.	12	15
Each	9.55	12.20

One in a box.

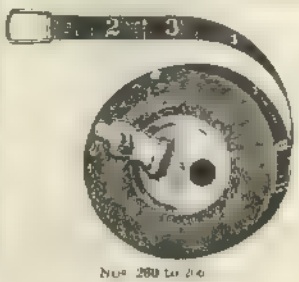
RIVAL JUNIOR

¼-In. Tape, Marked One Side Only in Feet, Inches and 16ths

Nos.	1240	1243
Length, Feet	25	50
Dia., Case, Ins.	3	4½
Wt., Doz., Lbs.	3	2½
Each	$5.80	7.00

Best Quality, Hard Russet Leather Case, Highly Finished. Extra Heavy Nickel Plated Brass Handle and Mountings. Nickel Plated Brass Ring and Roller Throat. Frost Coated (Non-reflecting). Fine Steel Flexible Tape. Etched Markings. Marked One Side Only: Feet, Inches and 8ths.

CHALLENGE



Nos. 260 to 266

¼-In Tape

Nos.	260	263
Length Ft	25	50
Dia. Case, Ins	2½	3½
Wt. Doz., Lb	5½	8
Each	$6.50	7.95

Nos.	265	266
Length, Ft	75	100
Dia Case, Ins.	4½	5½
Wt., Doz., Lb.	12	15
Each	10.40	13.40

CHALLENGE JUNIOR

Nos. 1260, 1263

¼-In. Tape.

No.	1260	1263
Length, Feet	25	50
Diam. of Case, Ins.	2½	2½
Wt., Doz., Lbs.	3	5
Each	6.40	7.50

UNIVERSAL

Pressed Leather Cases, Nicely Enameled. ¼-in. Linen Corded Tape, Waterproof Coated. Brass Folding Handles and Trimmings.

Nos.	1030	1033	1035	1036
Feet	25	50	75	100
Per Dozen	$15.50	22.90	31.85	35.80

One in a box.

POCKET MEASURING TAPES

STEEL

Round Edge, Nickel-plated Brass Case. Spring Wind. Center Stop. Tape, ¼-inch Wide.

Marked One Side Only, Inches and 16ths.

		Per Dozen
No. 143—36 Ins. ..	$ 7.00	$14.25
No. 145—60 Ins...	9.00	17.85
No. 146—72 Ins . .	10.00	19.10

Marked Inches and 16ths One Side, Millimeters Other Side.

		Per Dozen
No. 143M—36 Ins., 1 Meter	$ 8.00	$15.50
No. 145M—60 Ins., 1½ Meter ..	10.00	20.30
No. 146M—72 Ins., 2 Meter. .	12.00	23.90

Nos. 143 to 146M

"MARVEL"

Nickel-plated Case Spring Wind Center Stop. Tape, ¼ In. Wide. Graduated in Inches and 16ths

Per Dozen

No. 3143—36 Ins. $8.00

One dozen in a leatherette display box.

No. 3143

LINEN

Nos. 173 to 176

Round Edge, Nickel-plated Brass Case. Spring Wind. Center Stop. Enameled Linen Tape, ¼-inch Wide.

Marked in Inches and 8ths.

		Per Dozen
No. 173—36 Ins...	$3.50	$8.40
No. 175—60 Ins...	4.50	10.75
No. 176—72 Ins....	5.00	11.90

Half dozen in a box.

"UNIVERSAL"

Nickel-plated Case. Spring Wind. Center Stop. Painted Linen Tape.

Marked in Inches and 8ths.

Per Dozen

No. 165—60 Ins.. . $3.30

One dozen in a display box

No 165

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

WASHING MACHINES

F. O. B. Phila. or Jamestown, N. Y.

IMPROVED CAPITAL MOTOR

Brass Motor, Rust Proof. Top and Bottom Bearings for Agitator Shaft. Large Roller at Back of Bar, which is Concaved on Top to Hold Oil. Protected Gear Rack and and Gear. Safety Dasher, which Prevents the Tearing of Clothes. Made of Louisiana Red Cypress. Wire Wound Hose, with Weight on Exhaust Hose.

Each

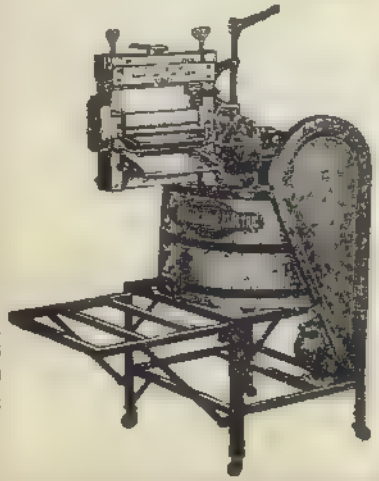
No. 120IC—Water Pressure of 20 Lbs. or Over ... **$34.00**

MAGIC MOTOR

Motor is Substantially made of Brass, which Prevents Rust. Tub is Steam and Water Tight.

Each

No. 14 . . **$38.00**



BLACKSTONE ELECTRIC

Best Selected Stock Tub, Built With 2 Ply Large Overlapping Cover. Reversible Swinging Wringer Supplied with Cog Wheel Shields and a Patent Release Which Takes Pressure Off Rolls. Safety Dasher Prevents Tearing Clothes. Steel Bench with Folding Extension Rack for Extra Tub or Clothes Basket. Cut Gears Eliminate Noise. Drain has Threaded Connection for Garden Hose. Inclosed Motor, Fitted with Electric Cord and Socket that Can be Screwed to Any Electric Light Socket.

Tub Capacity, 22 Gallons. Dimensions, 23 Inches at Bottom, 21½ Inches at Top, 11 Ins. Deep.

Each

No. 1901 . . . . . **$135.00**

Selected Virginia White Cedar. Flat Gold Bronze Steel Hoops. Extension Stave Legs, Securely Bolted to Machine and Well Braced with Hardwood Sections. Bolted Through from Side to Side. Patented Hardwood Dolly.

No. 80—Shipping Weight, Crated 80 Lbs. **$34.80**

One in a crate.

No. 80

NEW PAN-AMERICAN

Family Size, Round Wood Tub, Corrugated Sides and Bottom. Three Heavy Iron Hoops, Four Strong Legs, Securely Bolted to Tub. Well Braced and Held Together with Steel Rods. Filled Varnished Woodwork, Aluminum and Gold Bronzed Finish Castings.

Each

No. 22 $13.00

Shipping wt., crated 80 lbs.

TYPHOON

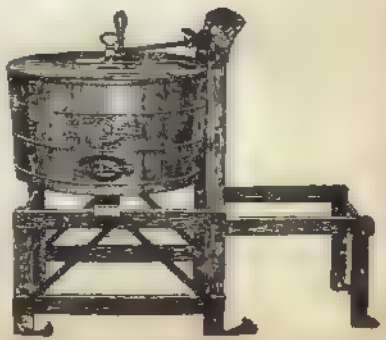
Ball Bearing. Virginia White Cedar Tub. Electric Welded Wire Hoops. Varnished, Patented Tilting Wringer Board. Well Braced Hardwood Frame. Shipping Wt. Crated, About 80 Lbs.

Each

No. 45 . . **$21.80**

F. O. B. Phila. or Richmond, Va.

One in a crate.



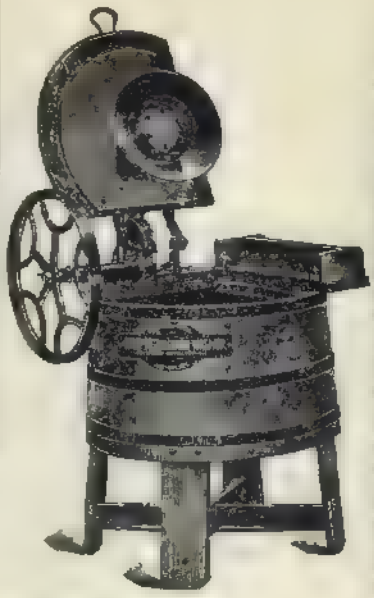
WASHING MACHINES

REGAL

Simple Gearing Construction. Carefully Machined Working Parts. Operating Lever Provided with Two Sockets. Can be Operated Either Standing or Sitting. Gear at Top of Dolly Post Fully Protected. Non-tearing Dasher or Agitator. Selected Louisiana Red Cypress, Natural Finish Tub. Hardwood Legs Bolted to the Chime of Tub, Firmly Braced and Reinforced by Steel Rods. Wringer Board Held in Place by Two Heavy Galvanized Bolts. Heavy Two-ply Overlapping Lid. Tub Trimmings Galvanized.

Each

No. 1025 **$22.75**



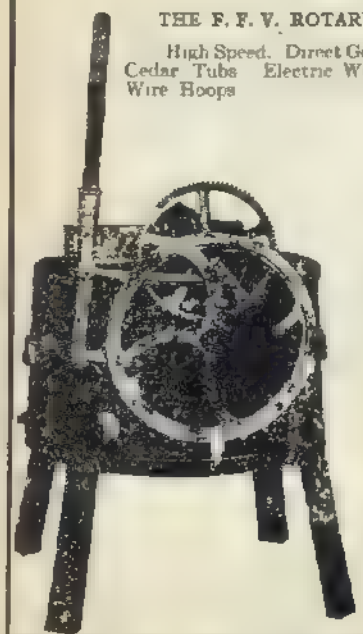
Operates at Very High Speed. Forces Hot Air, Steam and Water Through Every Part of Clothing, Insuring Thorough Cleansing Without Danger of Injury. Extra Large Tub of Selected Louisiana Cypress, Fully Corrugated. Extra Heavy Steel Hoops. Hardwood Legs, Securely Bolted to Chime of Tub, Reinforced with Cypress Pieces and Steel Rods. Equipped with Large Size Spigot Placed in Bottom of Tub, which Drains the Washer Quickly. Held in Place with Bolts and Supplied with Rubber Gaskets to Prevent Leakage. Cut Gears and Ball Bearings. Easy to Operate. Noiseless. Can be Attached to any Line Shaft and Operated by a Gasoline or Steam Engine. Pulley can be Supplied at Small Cost. Machine is Supplied with the Latest Improved Patented Cover Lock.

Each

No. 1275 **$31.08**

THE F. F. V. ROTARY

High Speed. Direct Geared. Cedar Tubs. Electric Welded Wire Hoops.



Heavy Fly Wheel. Roller Bearings. Shipping Wt., Crated, About 80 Lbs.

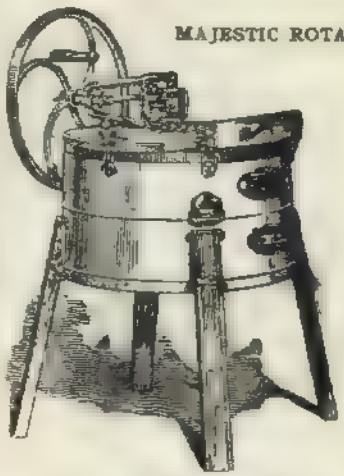
Each

No. 137 **$32.74**

F. O. B. Phila. or Richmond, Va.

One in a crate.

MAJESTIC ROTARY



Seasoned Virginia White Cedar Flat Hoop at Top. Aluminum Coated Castings. Shipping Wt., Crated, About 80 Lbs.

Each

No. 43 **$25.40**

F. O. B. Phila. or Richmond, Va.

One in a crate

BOSS ETERNAL GEAR

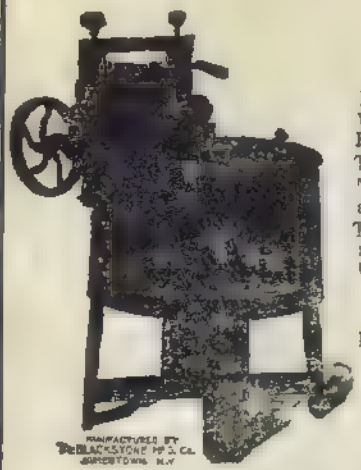
Louisiana Red Cypress. Natural Finish and Varnished. Wood Frame Cylinder. Extra Heavy Galvanized Iron Bottoms. Rim Arranged for Attaching Wringers. Heavily Galvanized where Necessary to Prevent Rust. Diameter of Wheel, 17 Ins.

Nos.	101	202
Length, Over All, Ins.	35	35
Wt., Each, Abt. Lbs.	100	105
Each	$23.36	25.50

WASHING MACHINES

POWER

BLACKSTONE WITH WRINGER



Completely Equipped with 15-inch Pulley for Use in Connection with Gasoline or Steam Engines Etc. With **Reversible Wringer Attachment.** The Power for Both Washer and Wringer is Controlled by Two Levers The **Gearing Mechanism** is Attached to the Hardwood Wringer Frame. Instead of to the Cover or Body of the Machine or Under the Tub The Four-peg Dolly Makes a Full Three-fourths Turn Before Reversing The **Tub** Used in this Machine is made from Carefully Selected Louisiana Red Cypress- "The Wood Eternal"- and is ⅞ of an Inch in Thickness. The Interior Both Sides, and Bottom are Fully Corrugated. Three Extra Heavy Steel Hoops are Used The **Wringer** is the Best Made and is Warranted for Five Years. The Cog Wheels are Fully Protected with Shields—No Chance to Get Fingers Caught. The Rolls are 10 x 1¾ Inches.

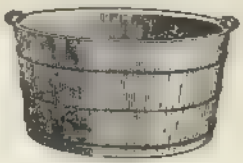
	Each
No. 507—Capacity, 22 Gallons. Wheel Painted Red One in a crate	$84.00

Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, in Jamestown, N. Y.

WOODEN WASH TUBS

Specify Style of Handle Also Kind of Hoop Wanted. Galvanized Hoops Sink Into Grooves

Drop Handles



Patent Handles

Stave Handles

CLEAR WHITE CEDAR

Nos.	1	2	3	4	5
Inside Top Diameter, Inches	23½	21½	19½	18	16
Inside Depth, Inches	11½	10½	9½	8½	⅞
Electric Hoops, Each	$5.75	4.50	3.15	2.40	2.00
Iron Hoops, Each	5.25	4.50	3.15	2.40	2.00
Galvanized Hoops, Each	5.75	6.50	5.00	2.50	2.20

KNOTTY WHITE CEDAR

Nos.	1K	2K	3K	4K	5K
Inside Top Diameter, Inches	23½	21½	19½	18	16
Inside Depth, Inches	11½	10½	9½	8½	7⅞
Electric Hoops, Each	$4.10	3.00	2.40	1.90	1.70
Iron Hoops, Each	4.10	3.00	2.40	1.90	1.70
Galvanized Hoops, Each	5.20	3.70	2.80	2.40	1.90

NESTED

ELECTRIC OR IRON HOOPS

	Per Nest
No. 13—3 in Nest, Nos 1 to 3 (3 Large)	$13.50
No. 24—3 in Nest, Nos. 2 to 4 (3 Small)	13.30

GALVANIZED HOOPS

	Per Nest
No. 13G—3 in Nest, Nos 1 to 3 (3 Large)	$15.00
No. 24 —3 in Nest, Nos 2 to 4 (3 Small)	13.10

Note.—Nos. 13 and 13G any style handles Nos 24 and 24G Patent and Stave Handles only.

ELECTRIC OR IRON HOOPS

	Per Nest
No. K13—3 in Nest, Nos 1 to 3 (3 Large)	$9.50
No. K24—3 in Nest, Nos. 2 to 4 (3 Small)	7.20

GALVANIZED HOOPS

	Per Nest
No. K13G—3 in Nest, Nos. 1 to 3 (3 Large)	$11.70
No. K24G—3 in Nest, Nos. 2 to 4 (3 Small)	8.90

Well wrapped for shipping

CLEAR WHITE CEDAR

Drop Handles Only. Galvanized Hoops.

Nos.	6	7	8	9	10	11
Inside Top Diameter, Inches	14½	13	¼	10½	9¼	8
Inside Depth, Inches	6½	5½	4½	3½	3½	2½
Each	$1.65	1.50	1.35	1.50	1.05	.90

Well Wrapped for Shipping

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

ROLLING STEP LADDERS

"MILBRADT"

Made In Different Styles to Fit All Kinds of Shelving; Shipped Complete Ready to Install

The Milbradt Rolling Step-Ladders are all Made to Order, and to Fit Each Particular Place, of Good Oak Lumber, in the Most Artistic and Neatest Style, Handsomely Finished, are Durable and Perfectly Safe, as they Cannot Jump the Track. They take up the Least Possible Space, Run Noiselessly and so Easily, either Empty or with Operator upon them, that a Slight Push Will propel a Ladder the Length of an Ordinary Store. All Ladders have an Extra Wide Shelf at the Top which affords great Convenience in Handling Stock. All Iron Work on Ladders, as well as the Brackets to Hold Up Steel Track, is Malleable, Made Artistic and Strong, and Aluminum Finished.

BENT SHELF LADDERS

Runs on Steel Track

Used on Shelving with Extended Base; Ladder Hangs From and Rolls on Steel Track Fastened to Shelving near Top; Bottom of Ladder is Bent and is equipped with Two Rubber Rollers which Rest Against and Roll on Edge of Extended Base Top; Wheels are Paper Filled and Run Noiselessly and Easily; Adapted to Any Store with Extended Base Shelf and Well Built Shelving

Each

No. 1—Aluminum Finished Metal Parts; Golden Oak Wood; Weight Each 50 Lbs. $22.00

BENT FLOOR LADDERS

Runs on Hardwood Track

Used on Shelving with Narrow Bottom Ledge, Ladder has Wheels which Roll on Hardwood Track Fastened to Shelving near top which Serves to Guide Course. Bottom of Ladder is equipped with Heavy Rubber Tired Wheels which run on floor, weight of the whole Ladder Rest on Floor, Runs Noiselessly and Easily; Wheels at Top are arranged in slide so as to adjust themselves to Unevenness of Floor. No Track is Used on floor; Adapted to Shelving Not Strongly Built, Adapted to Sloping Floor also.

Each

No. 2—Aluminum Finished Metal Parts; Golden Oak Wood; Weight Each 50 Lbs. $22.00

BENT SHELF LADDERS

Runs on Steel Track

Used on Shelving With or Without Narrow Bottom Ledge or Base Shelf; Ladder Hangs From and Rolls on Steel Track Fastened to Shelving Near Top; Bottom of Ladder is Bent and is equipped with Long Swinging Arms Fitted with Rubber Rollers which Rest Against and Roll on Edge of Ledge or may be Placed at Extreme End of Ladder and Roll Against Base Board; Arms may be Swung Up When Not in Use to allow Ladder to Swing Close to Shelving; Adapted to Any Store with Strongly Built Shelving.

Each

No. 3—Aluminum Finished Metal Parts; Golden Oak Wood; Weight Each 50 Lbs. $22.00

HOW TO ORDER

Give the Exact Height from Floor to Top of Base Shelf; the Exact Width of Base Shelf to Front Edge of Upright or Partitions in Shelving; and the Exact Height from Top of Base Shelf to Top of the Shelf to which Track is to be Fastened, and the Track should be Fastened to a Shelf that is Within Three or Four Feet Down from the Top of the Shelving.

It is Important that Measurements for Both Ladders and Track are Sent us According to Instructions. For Odd or Irregular Shelving, or for that matter, in all cases, it helps us a great deal to better understand what is wanted if you will write us for Special Order Blank and fill out same.

Note—In all cases give Exact Length of Track Required, as well as Number of Brackets Wanted. (To make a Solid Track, Brackets should be about 4 ft. apart).

ROLLING STEP LADDERS

"MILBRADT"

The Milbradt Rolling Step-Ladders are all Made to Order, and to Fit Each Particular Place, of Good Oak Lumber, in the Most Artistic and Neatest Style, Handsomely Finished, are Durable and Perfectly Safe, as they Cannot Jump the Track. They take up the Least Possible Space, Run Noiselessly and so Easily, either Empty or with Operator upon them, that a Slight Push Will propel a Ladder the Length of an Ordinary Store. All Ladders have an Extra Wide Shelf at the Top which affords great Convenience in Handling Stock. All Iron Work on Ladders, as well as the Brackets to Hold Up Steel Track, is Malleable, Made Artistic and Strong, and Aluminum Finished.

STRAIGHT LADDERS
Runs on Steel Track

For Track Fastened to Shelving Near the Top; this Ladder has Long Swinging Arms Attached and is for Use on Shelving with a Very Narrow or no Base Shelf, the Arms Holding the Lower End Out the Proper Distance for Convenient Climbing; the Arms are Made from 10 to 26 Inches Long and have Rubber Rollers at the Ends which Run Against the Ledge; If Ladder is to Hang Out Less than 10 Inches, Stationary Arms are Used, same as on the No. 1 Ladder on Previous Page, when not in Use, the Swinging Arms Fold Out of the Way; when Ladder is to be Used, the Arms Swing Into Place Automatically; Runs on Round Steel Track

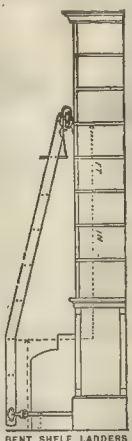
Each

No. 4—Aluminum Finished Metal
Parts: Golden Oak Wood; Weight Each 50 Lbs.....$20.00

HOW TO ORDER

Give Exact Height from Floor to Top of Base Shelf, the Exact Width or Projection of Base Shelf, the Exact Height from Top of Base Shelf to the Top of Shelf to which Track is to be Fastened; Track Should be Fastened to a Shelf between Two or Three Feet Down from the Top.

Note—In all cases give Exact Length of Track Required, as well as Number of Brackets Wanted. (To make a Solid Track, Brackets should be about 4 ft. Apart).



BENT SHELF LADDERS

Used on Shelving with Wide Extended Base or with Deep Base Bins; Ladder Hangs from and Rolls on Steel Track Fastened to Shelving Near Top; Bottom of Ladder is Bent and is Equipped at Extreme End with Rigid Arms Fitted with Rubber Rollers which Rest Against and Roll on Base Board of Bins. Adapted to Grocery and Hardware Stores where Spice Bins, Coffee Bins, Nail Bins, etc., are found.

Each

No. 11—Aluminum Finished Metal
Parts: Golden Oak Wood; Weight Each 50 Lbs.....$42.00

HOW TO ORDER

Give the Exact Height From Floor to Top of Platform Against Which the Rubber Rollers are to Run, the Exact Distance the Platform Projects Out Further Than Upper Part of Shelving, and the Exact Height From Floor to Top of the Shelf to which Track is to be Fastened (and the Track Should be Fastened to a Shelf that is Within Three or Four Feet Down from the Top)

Also give the Height of the Spice Cans and State How Far the Lower End of Ladder is to Hang Away From Platform.

CEILING TROLLEY LADDERS

Used in Places where Shelving is Inconvenient to Apply Ladders; Top of Ladder is Equipped with Trolley Wheels which Run on Tubular Steel Track attached to Ceiling; Base of Ladder is equipped with Turned Steel Wheels which Run on Floor Track; Running and Noiseless; Ceiling Wheels are Paper Filled; Easily Climbed and Convenient for Handling Goods; Adapted to Hardware Stores and Warehouses where Heavy Goods are Handled; Runs Independent of Shelving and is Strong and Durable.

Each

No. 12—Aluminum Finished Metal
Parts: Golden Oak Wood; Weight Each 50 Lbs.....$30.00

Per Foot

No. 12ST—Steel Trolley Track, for Above Ladder; Including Brackets and Leg Screws; Weight per foot 1½ Lbs.....$0.40

HOW TO ORDER

It is only necessary to Give the Exact Height from Floor to Ceiling. Also State the Number of Feet of Steel Track Wanted.

ROLLING STEP-LADDER BRACKETS

"MILBRADT"

FACE BRACKETS

Used to Hold up Steel Track which is attached to Shelving; but can only be used where the face of Upright or Pilaster to which it is to be screwed is 2 inches or more wide.

Intended for use where Steel Track is to be fastened up to a Face Board that may be below the Cornice or Moulding at Top of Shelving, but in order to fasten Bracket to face board underneath the moulding or cornice and to give room enough for the track and top fixture of ladder to work, the face board is required to be at least 8 in. wide, clear of mouldings.

Each

No. 7A—Malleable Iron; Weight about 1 Lb..... $0 60

SHELF BRACKETS

Used to Hold up Steel Track when same is to be applied to Spindle Shelving. Brackets of this style are screwed and bolted on top of shelf alongside of spindles. Also used in connection with bracket No. 7A to hold upsteel track on shelving where uprights to which brackets can be fastened are too far apart to make the track strong enough in such cases brackets are fastened on top of shelf in between the uprights.

Each

No. 8—Malleable Iron; Weight about ½ Lb.. $0 60

HOW TO ORDER BRACKETS

State the Number of Brackets Required to Hold Up Steel Track. Usually there is One Bracket Fastened to Each Upright or Partition, in Shelving, except when Uprights or Partitions are less than 2 feet apart, then One Bracket for Every Other Upright, or Partition, will be sufficient.

To make Regular Steel Track Strong Enough the Brackets Cannot be more than 4 feet apart.

ROLLING LADDER TRACK

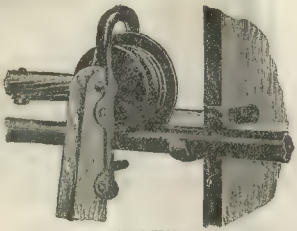
WOOD TRACK

For No. 2 Ladder

Made of Hard, Dry Maple, finished to Match Ladders. The Track is screwed to the edge of shelf, and does not block up any space.

Per Foot

No. 2T—Complete with Screws; Weight per Foot, 2 Lbs..... $0 30



STEEL TRACK

For Nos. 1, 3, 4 and 11 Ladders

The Steel Track is made of Round Tubing, in Two Weights and Strength, or what is called the **Regular** and **Extra Strong** Steel Track. The Regular Track is used on Shelving to which the Brackets to Hold Up Track can be Fastened 4 feet or less apart, and the Extra Strong Steel Track is used on Shelving to which it is Necessary to Fasten the Brackets more than 4 feet apart, and for this Track the Brackets can be as far as 5 feet apart. The Steel Track can be fastened to All Kinds of Shelving Without Making any Special Arrangements for it, and as both the Regular and the Extra Strong Steel Track is 1 inch in Diameter on the Outside and is Fastened up Opposite the Edge of a Shelf, it does not block up any space.

Complete with Brackets and Screws

	Per Foot
No. 7R—Regular; Weight per Foot, 1 Lb.....	$0 40
No. 7ES—Extra Strong; Weight per Foot, 1½ Lbs...	..... .50

PYREX TRANSPARENT OVEN-WARE

The highest scientific development in ovenware. It has the remarkable quality of quickly absorbing and retaining heat, causing foods to bake rapidly and thoroughly. It is ready for immediate service and may be used for foods baked in the oven. It never chips, flakes, crazes, dents or bends and remains new forever.

CASSEROLES, ROUND

DEEP

Nos.	100	101	102	103	104
Capacity quarts	2½	2	1½	1	½
Outside diameter, inch	[illegible]	9	8½	7¼	6⅛
Inside diameter inch	9	8⅜	7⅛	6⅝	5½
Depth inside inch	3¼	3	2½	2¼	2
Dozen in case	1	1½	2	2½	4
Net weight per dozen, lbs	52	43	35	26	18
Shipping weight per dozen, lbs	78	68	45	31	22
Per dozen	$39 00	33 00	27 00	24 00	18.00

No 101 two in carton; balance, one.

	Shallow	Individual
Nos.	112	164
Capacity	1 qt	8 ozs
Outside diameter inch	7⅜	4½
Inside diameter, inch	6⅝	3⅞
Depth inside inch	2	1¾
Dozen in case	2½	7
Net weight per dozen, lbs	27	10
Shipping weight per dozen, lbs	35	12½
Per dozen	$24.00	10.20

Two in carton.

Fit Standard Mountings

For frames 1134F and 1135F.

Nos.	167	168
Capacity, quart	1	1½
Outside diameter, inch	7¼	8¼
Inside diameter, inch	6⅛	7½
Depth inside, inch	2⅜	2⅝
Dozen in case	2½	2
Net weight per dozen lbs	21	33
Shipping weight per dozen, lbs	28½	39
Per dozen	$24 00	27 00

CASSEROLES, OVAL

SHALLOW

Nos.	183	184
Capacity quarts	1	1½
Outside diameter, inch	9⅛x7¼	10⅝x7¾
Inside diameter, inch	8⅛x5⅝	9⅜x6⅞
Depth inside, inch	2	2⅛
Dozen in case	2½	1⅔
Net weight per dozen, lbs	24	44
Shipping weight per dozen, lbs	41	58
Per dozen	$21 00	27 00

Fit Standard Mountings

For frames 1137F and 1138F.

Nos.	193	194	Deep 197
Capacity quarts	1	2	1½
Outside diameter, inch	8⅜x6¼	9½x7	8¾x6¼
Inside diameter, inch	7⅛x5⅛	8⅝x6⅜	7½x5½
Depth inside, inch	2⅝	3½	3⅜
Dozen in case	2½	2	1¾
Net weight per dozen, lbs	31	41	35
Shipping weight per dozen, lbs	40	65	49
Per dozen	$24.00	33.00	27.00

Above, one in a carton

PUDDING OR BAKING DISHES, ROUND

DEEP

Nos.	120	121	122	123
Capacity, quarts	[illegible]	2	1½	1
Outside diameter, inch	9¾	9	8⅛	7¼
Inside diameter, inch	9	8⅜	7¾	6⅛
Depth, inch	3¼	3	2⅝	2¼
Dozen in case	1⅝	1⅝	2½	3
Net weight per dozen, lbs	33	28	21	17
Shipping weight per dozen, lbs	48	40	30	24
Per dozen	$24 00	21.00	18 00	15.00

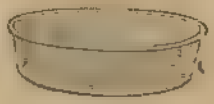
UNCOVERED

Nos.	464	465	466
Capacity, quarts	1	1½	2
Outside diameter, inch	7⅛	8¼	9⅛
Inside diameter, inch	6¼	7⅛	8¼
Depth inside, inch	2¼	2½	2¾
Dozen in case	3	2½	1⅔
Net weight per dozen, lbs	18	23	30
Shipping weight per dozen, lbs	22	30	40
Per dozen	$15.00	18.00	21.00

Above, three in a carton.

SHALLOW

Nos.	152	155
Capacity, quarts	1	2½
Outside diameter, inch	7⅜	8½
Inside diameter, inch	6⅝	7¾
Dozen in case	3	2½
Net weight per dozen, lbs	18	22
Shipping weight per dozen, lbs	24	29
Per dozen	$15.00	18 00



BAKING DISHES, OVAL

Nos.	400	401	402	403
Capacity, ounces	9	10	12½	18
Length outside, inch	6¼	6⅜	7¼	8½
Length inside, inch	5⅝	5⅞	6½	7⅝
Depth, inch	1⅛	1¼	1¼	1½
Dozen in case	18	16	17	9
Net weight dozen, lbs	6½	7½	9	13
Shipping weight per dozen, lbs	7½	9	11½	16
Per dozen	$6 00	7 20	9.00	10.20

Six in carton

PUDDING OR BAKING DISHES, ROUND

Nos.	452	453	455
Capacity, ounces	6	8	12
Diameter outside, inch	4¼	4½	5¼
Diameter inside, inch	3⅝	4	4⅝
Depth, inch	1⅛	1½	1⅝
Dozen in case	28	18	12
Net weight per dozen, lbs	5	6	8
Shipping weight per dozen, lbs	6	8	10
Per dozen	$1 20	5 40	6 60

PUDDING OR BAKING DISHES
ROUND WITH HANDLE

Nos.	301	302
Diameter outside, inch	7⅛	6
Diameter inside, inch	7	5½
Depth, inch	1¼	⅞
Dozen in case	9	18
Net weight per dozen, lbs	12½	8½
Shipping weight per dozen, lbs	15	10
Per dozen	$12.00	9 00

Six in a carton

PYREX TRANSPARENT OVEN-WARE

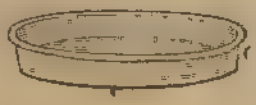
The highest scientific development in ovenware. It has the remarkable quality of quickly absorbing and retaining heat, causing foods to bake rapidly and thoroughly It is ready for immediate service and may be used for foods baked in the oven. It never chips, flakes, crazes, dents or bends and remains new forever.

PUDDING OR BAKING DISHES
OBLONG WITH HANDLES

No.	322
Diameter outside, inch	8½x6¼
Diameter inside, inch	8x5¾
Depth, inch	1¼
Dozen in case	7½
Net weight per dozen, lbs	14
Shipping weight per dozen, lbs	19
Per dozen	$13.80

Six in a carton.

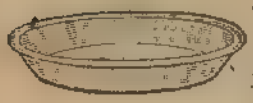
CAKE DISHES, ROUND



No.	221
Diameter outside, inch	9⅛
Diameter inside, inch	8½
Depth, inch	1
Dozen in case	4
Net weight per dozen, lbs	20
Shipping weight per dozen, lbs	27
Per dozen	$12.00

Three in a carton.

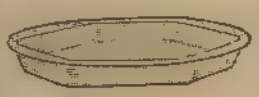
PIE PLATES, ROUND



	Wide Rim	Round Rim	
Nos.	201	202	203
Diameter outside, in.	9⅝	8⅜	9¾
Diameter inside, inch	8⅝	8	9⅛
Depth, inch	1¼	1⅛	1
Dozen in case	6	6	4¾
Net weight dozen, lbs	19	16½	22
Ship wght dozen, lbs	24	22	27
Per dozen	$13.20	12.00	18.20

Six in a carton.

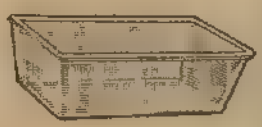
PIE PLATES, SIX SIDED



No.	1203
Diameter outside, inch	9¾
Diameter inside, inch	7½
Depth, inch	1
Dozen in case	4¾
Net weight per dozen, lbs	23
Shipping weight per dozen, lbs	29
Per dozen	$18.00

Six in carton.

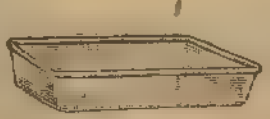
BREAD PANS, OBLONG



	Regular Loaf	Double Loaf
Nos.	212	214
Size outside, inch	9⅛x5⅛	10⅝x5⅝
Size inside, inch	8½x4½	10x5
Depth, inch	2¾	3
Dozen in case	3	2
Net weight dozen, lbs.	25	32
Ship weight dozen, lbs	30	45
Per dozen	$13.20	24.00

No. 212, three in carton; No. 214, one in carton.

UTILITY PANS, OBLONG



	231	Small Roaster 232
Nos.		
Size outside, inch	10½x6½	12⅝x8⅛
Size inside, inch	10x6	12x7½
Depth, inch	1¾	1¾
Dozen in case	2½	1¾
Net wght dozen, lbs	29	45
Ship wght doz, lbs	36	57
Per dozen	$18 00	24 00

No. 231, three in carton; No. 232, one in carton.

BEAN POTS, ROUND

Nos.	502	504
Capacity, quarts	½	1
Diameter outside, inch	4⅝	5⅞
Diameter inside, inch	3⅞	5⅛
Depth, inch	3	4¼
Dozen in case	5	2¾
Net weight per dozen, lbs	14	28
Shipping weight per dozen, lbs	17	36
Per dozen	$18 00	27 00

No. 502, two in carton; No. 504, one in carton.

CUSTARD CUPS

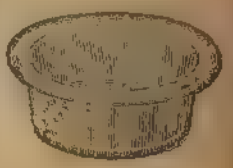
	Round		Oval
Nos.	422	423	427
Capacity, ozs	6	4	5
Diam. outside, in.	4	3½	4⅞x3¼
Diam. inside, inch	3⅛	3⅛	4½x2¾
Depth, inch	1⅜	1½	1⅝
Dozen in case	15	21	16
Net wght doz, lbs.	4½	3¾	5¾
Ship. wght doz, lbs	5½	4½	7
Per dozen	$4.20	3 60	4.80

Nos. 422 and 423, six in carton; No. 427, three in carton.

SERVING TRAYS, ROUND

No.	710
Diameter outside, inch	10
Diameter inside, inch	9½
Depth, inch	¾
Dozen in case	4½
Net weight per dozen, lbs	24
Shipping weight per dozen, lbs	28
Per dozen	$16.20

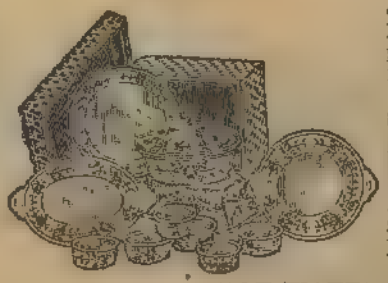
RAMEKINS



	Wide Rim	Narrow Rim
Nos.	442	432
Capacity, ounces	4	3½
Diameter outside, inch	3¾	3⅛
Diameter inside, inch	3	2⅝
Depth, inch	1¼	1⅛
Dozen in case	21½	30
Net weight per dozen, lbs.	3½	3
Shipping weight per dozen, lbs	4½	4
Per dozen	$3 60	3 00

Above, six in carton

GIFT SETS



Contents: One each No. 168 round casserole No 322 oval dish, No 213 cake plate No. 301 round dish, No. 202 pie plates, and 6 No. 432 ramekins.

No. 1216E, same dishes engraved in wreath design.

	Plain	Engraved
No.	1216	1216 E
No. pieces	11	11
Net weight, lbs	13½	13½
Ship wght, lbs	17	17
Per set	$8 00	11 00

One set in a carton.

HOT WATER PLATES

Nickel plated spout and body. One piece. Side handles. Decorated china plate. Swivel in chain prevents stopper twisting.

No.	805
Diameter, inch	9
Net wght each, lbs	3½
Each	$6.00

UNIVERSAL CASSEROLES

Frames made of copper, heavily nickel plated. Metal handles and feet. Insets are fireproof, and guaranteed not to craze or crack from the heat or absorb the flavors of food.

ROUND

Seal brown vitrified china inset.

No.	76288
Size, inch	8
Capacity, pints	3½
Net weight per dozen, lbs	60
Per dozen	$82.50

Brown vitrified china inset

No.	702307
Size, inch	8
Capacity, pints	3½
Net weight per dozen, lbs	60
Per dozen	$76.50

OVAL

White and gold vitrified china inset

No.	7578
Size, inch	8
Capacity, pints	2½
Net weight per dozen, lbs	48
Per dozen	$97.50

ROUND

Seal brown vitrified china inset.

No.	7647
Size, inch	7
Capacity, pints	2
Net weight per dozen, lbs	48
Per dozen	$52 50

OVAL

Seal brown vitrified china inset.

No.	7548
Size, inch	8
Capacity, pints	2½
Net weight per dozen, lbs.	48
Per dozen	$66 00

ROUND

Heat proof glass inset.

No.	762308
Size, inch	8
Capacity, pints	3
Net weight per dozen, lbs	54
Per dozen	$90 00

Green vitrified china inset.

No.	7538
Size, inch	8
Capacity, pints	2½
Net wght doz. lbs	48
Per dozen	$72.00

Shipping weight adds 30% to net weight.

PYREX TRANSPARENT OVEN WARE

Does Not Chip, Flake or Crase, Even After Years of Use Cannot Rust, Burn Out or Discolor Bakes Quickly. Does Not Burn Food. Makes Food More Appetizing

PERCOLATOR TOP
ROUND KNOB

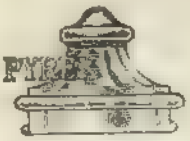
Bottom—Outside Diameter 2¼ In
Height—2⅛ Ins

Per Dozen
No. 954 . . . . . $ 2 10 $3.85
Twenty-four in carton

Fits "Universal" and "Royal Rochester Style Percolators

GIFT SET

Per Dozen
No. 1216—11 pieces. . . . $ 6 00 $8.40
Packed in an attractive box



PERCOLATOR TOP
PYREX STYLE

Bottom—Outside Diameter 2¼ In
Height—1¾ In

Per Dozen
No. 953 . . . . . $2 80 $3.55
Twenty-four in carton

Fits "Universal" and "Royal Rochester" Style Percolators

GIFT SET

Engraved Per Dozen
No. 1216E—11 pieces . . $12 00 $16.80
Packed in an attractive box
Weight, 13½ pounds

ATTRACTIVELY ENGRAVED PATTERNS
PRICES QUOTED ON APPLICATION

SPRAY DESIGN NO. E2

FERN DESIGN NO. E1

KEY DESIGN NO. E3

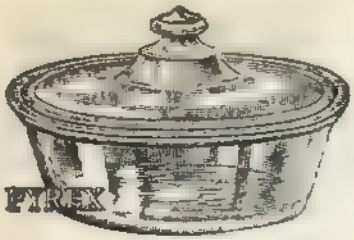
If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

PYREX TRANSPARENT OVEN WARE

Does Not Chip, Flake or Craze, Even After Years of Use. Cannot Rust, Burn Out or Discolor. Bakes Quickly. Does Not Burn Food. Makes Food More Appetizing.



CASSEROLES—ROUND

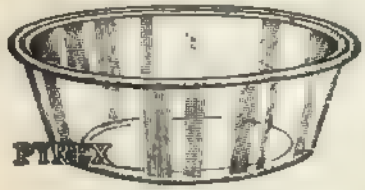
	Capacity	Size	Per Dozen	
No. 100	2½ Qt	(9 x3½ In.)	$30 00	$42.00
No. 101	2 Qt.	(8½x3 In.)	24 00	33.60
No. 102	1½ Qt.	(7½x2½ In.)	21 00	29.40
No. 103	1 Qt.	(6½x2½ In.)	18 00	25.20
No. 104	½ Qt.	(5½x2 In.)	12 00	16.80

One in carton—except No. 104, which is packed two in carton.

CASSEROLE—ROUND—INDIVIDUAL

	Capacity	Size	Per Dozen	
No. 184	8 Oz.	(3½x2 In.)	$8 40	$11.75

Two in carton.



UNCOVERED BAKING DISHES ROUND

	Capacity	Size	Per Dozen	
No. 464	1 Qt.	(6½x2½ In.)	$10 20	$14.28
No. 465	1½ Qt	(7½x2½ In.)	12 00	16.80
No. 466	2 Qt.	(8½x2½ In.)	14 40	20.16

Three in carton

PIE PLATE—ROUND WIDE RIM

	Size	Per Dozen	
No. 201	8½x1½ In., Wide Rim.	$10 80	$15.12

Six in carton.

CASSEROLE—ROUND—SHALLOW

	Capacity	Size	Per Dozen	
No. 112	1 Qt	(6½x2½ In.)	$18 00	$25.20

Two in carton.

CASSEROLES—OVAL FIT STANDARD MOUNTINGS

	Capacity	Size	Per Dozen	
No. 193	1 Qt.	(7½x5½x2½ In.)	$18 00	$25.20
No. 194	2 Qt	(8½x6½x3½ In.)	24 00	33.60
No. 197	1½ Qt. Deep	(7½x5½x3½ In.)	21 00	29.40

One in carton

PUDDING OR BAKING DISHES ROUND

	Capacity	Size	Per Dozen	
No. 120	2½ Qt	(9x3½ In.)	$16 80	$23.52
No. 121	2 Qt	(8½x3 In.)	14 40	20.16
No. 122	1½ Qt	(7½x2½ In.)	12 00	16.18
No. 123	1 Qt.	(6½x2½ In.)	10 20	14.30
No. 124	½ Qt.	(5½x2 In.)	7.20	10.10

Three in carton

BAKING DISHES—ROUND—SMALL (COCOTTES)

	Capacity	Size	Per Dozen	
No. 452	6 Oz.	(3½x1½ In.)	$ 3 00	$4.20
No. 453	8 Oz.	(4x1½ In.)	3.60	5.05
No. 456	12 Oz.	(4½x1½ In.)	4 80	7.75

Six in carton.

CASSEROLES—ROUND FIT STANDARD MOUNTINGS

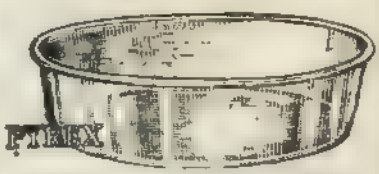
	Capacity	Size	Per Dozen	
No. 167	1 Qt	(6½x2½ In.)	$18 00	$25.20
No. 168	1½ Qt.	(7½x2½ In.)	21 00	29.40

One in carton

CASSEROLES—OVAL—SHALLOW (BEEFSTEAK) FIT STANDARD MOUNTINGS

	Capacity	Size	Per Dozen	
No. 183	1 Qt	8½x6½x2½ In.)	$18 00	$25.20
No. 184	1½ Qt	(9½x6½x2½ In.)	21.00	29.40

One in carton.



PUDDING OR BAKING DISHES ROUND—SHALLOW

	Capacity	Size	Per Dozen	
No. 132	1 Qt	(6½x2 In.)	$10 20	$14.30
No. 166	1½ Qt	(7½x2 In.)	12 00	16.80

Three in carton

BAKING DISHES—OVAL

	Capacity	Size	Per Dozen	
No. 400	9 Oz.	(5½x4 x1½ In.)	$4 80	$6.70
No. 401	10 Oz	(5½x4½x1½ In.)	5 40	7.60
No. 402	12½ Oz	(6½x4½x1½ In.)	6 60	9.25
No. 403	18½ Oz.	(7½x5½x2 In.)	7 20	10.10

Six in carton.

PYREX TRANSPARENT OVEN WARE

Does Not Chip, Flake or Craze, Even After Years of Use. Cannot Rust, Burn Out or Discolor. Bakes Quickly. Does Not Burn Food. Makes Food More Appetizing.

PIE PLATES—ROUND

	Size	Per Doz.
No. 202	8x1¼ In.	$12.60
No. 203	9x1 In.	15.15

Six in carton.

PIE PLATE—SIX SIDED

	Size	Per Doz.
No. 1203	9x1 In.	$16.80

Six in carton.

CAKE DISH—ROUND

	Size	Per Doz.
No. 221	8¼x1 In.	$12.60

Three in carton.

BREAD PANS—OBLONG

	Size	In Carton	Per Doz.
No. 212	8¼x4¼x2⅝ In.	One	$15.15
No. 214	10x5x3 In.	One	29.40

UTILITY DISHES—OBLONG

	Size	In Carton	Per Doz.
No. 231	10x6x1¾ In.	One	$18.50
No. 232	12x7¼x1¾ In.	One	29.40

SERVING TRAY—(TILE)—ROUND

	Size	Per Doz.
No. 710	10 In.	$18.50

One in carton.

ROUND DISHES—WITH HANDLES

	Size	In Carton	Per Doz.
No. 301	7x1¼ In.	Six	$12.60
No. 302	5¼x1¼ In.	Six	[illegible]

OVAL DISH—WITH HANDLES

	Size	Per Doz.
No. 322	8x6x1¼ In.	$14.30

Six in carton.

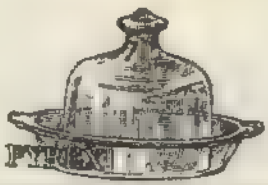
CUSTARD CUPS

	Capacity	Size	Per Doz.
No. 422	6 Oz.	Round (3½x2 In.)	$4.20
No. 423	4 Oz.	Round (3¼x1¾ In.)	3.10
No. 427	5 Oz.	Oval (4¼x2¼x1¼ In.)	5.05

Six in carton—except No 427, which is packed three in carton.

BEAN POTS—ROUND

	Capacity	Size	In Carton	Per Doz.
No. 501	1 Pt.	(3¼x3 In.)	Two	$18.50
No. 504	1 Qt.	(5¼x4¼ In.)	One	34.40



MUSHROOM DISHES—ROUND WITH HANDLES AND BELL COVER

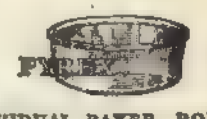
	Size	Per Doz.
No. 642	5¼ In.	$16.80
No. 645	7 In.	22.70

One in carton.

BELL COVERS ONLY—ROUND

	Size	Per Doz.
No. 652	4 In.	$7.60
No. 655	5 In.	10.10

One in carton.



INDIVIDUAL BAKER—ROUND

	Capacity	Size	Per Doz.
No. 432	3½ Oz.	(2¼x1¼ In.)	$2.55

Six in carton.

INDIVIDUAL BAKER—ROUND WIDE RIM (RAMEKIN)

	Capacity	Size	Per Doz.
No. 442	4 Oz.	(3x1¼ In.)	$2.50

Six in carton.

Kelley-How-Thomson Co. of Duluth

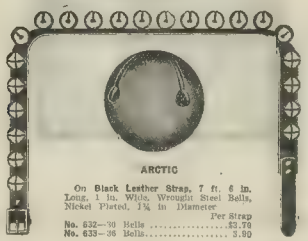
SLEIGH BELLS

BODY STRAP

ROUND

On **Black Leather Strap,** 7 ft. 6 in. Long, 1 in. Wide; Bells Tinned.

	Per Strap
No. 477—30, 1¼ in. Bells	$4.50
No. 481—30, 1⅝ in. Bells	5.00



ARCTIC

On **Black Leather Strap,** 7 ft. 6 in. Long, 1 in. Wide, Wrought Steel Bells, Nickel Plated, 1¾ in. Diameter

	Per Strap
No. 632—30 Bells	$2.70
No. 633—36 Bells	3.90

GLOBE

On **Black Leather Strap,** 7 ft. 6 in. Long, 1 in. Wide. **Bell Metal Bell,** 1¾ in. Diameter.

Extra White Metal

	Per Strap
No. 341—30 Bells	$3 60
Nickel Plated	
No. 342—36 Bells	8.40

ROUND BELLS

Wire Fastened to Heavy Russet Straps, 4 ft. 8 in. Long, ⅞ in. Wide. **Lined with Grain Leather. Polished Bells** 1⅝ in. Diameter

	Per Strap
No. 131—24 Bells	$4 50
No. 132—30 Bells	5.00

SWEDISH SLEIGH BELLS

Polished Bell Metal Bells, Straps 2¾ in. Made of **Extra Heavy Cherry Colored Leather**

	Per Strap
No. 474—With 14 in. Strap, Two 2½ in. Bells	$3.20
No. 475—With 14 in. Strap, Two 2¾ in. Bells	3.70
No. 476—With 16 in. Strap, Two Bells Each 2¾ and 3¼ in.	5.70
No. 482—With 26 in. Strap, Two Bells Each 2 in., 2½ in. and 2¾ in.	8.30

SLEIGH BELLS

SHAFT CHIMES

Beaded Gong Chime, Japanned Iron Strap, 11 in. Over-All

No. 417—6 Bells, Nickel Plated, 2⅜ in. Diameter ..... Per Pair $1.10

Graduated Cup Chime, Japanned Iron Strap, 14 in. Over-All

No. 497—Bells Nickel Plated, 1 Each 2¾ in., 2⅞ in., 2⅞ in. and 2⅞ in. ..... Per Pair $1.90

Graduated Band Chimes, Japanned Iron Strap, 11 in. Over-All

No. 498—Bells Nickel Plated, Three Bells, 2¾ in., 2⅞ in. and 2⅞ in. ..... Per Pair $1 60

Cast Bell Metal Bevel Chimes, Japanned Iron Strap, 11 in. Over-All

No. 443—Bells Silver White Finish, 3 Bells, Two 2⅜ in., One 2¾ in. ..... Per Pair $2 00

RUSSIAN SADDLE CHIMES

Pure Bell Metal, Height 8⅛ in., between Holes 4½ in. Adjustable, Bell 2¾ in. Diameter

No. 434—Nickel Plated ..... Each $2.70

Pure Bell Metal, Height 8 in., between Holes 4¾ in. Adjustable, Bells 2¾ in. Diameter

No. 437—Nickel Plated ..... Each $5.40

RUSSIAN SADDLE CHIMES

Wrought Brass Bells, 2⅝ in. Diameter, Height 6½ in., Between Holes 9½ in. Adjustable.

Each

No. 4630 Nickel Plated.....$1.80

Canadian Pattern, Polished

Per Dozen

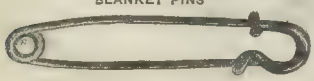
No. 6—6" in. Diameter.....$8.10
No. 7—[illegible] in. Diameter.....8.40
Sheet Steel, Malleable Iron Loop
No. 3—3⅝ in. Diameter, Copper Plated.....4.50

Light Pattern, Polished, with Leather Loop and Buckle

Per Dozen

No. 24—3 in. Diameter.....$ 7.50
No. 25—3¼ in. Diameter.....7.50
No. 26—3½ in. Diameter.....9.50

BLANKET PINS

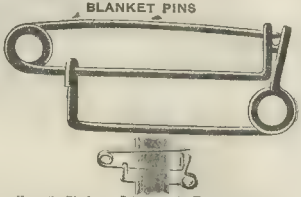


Used by Woodsmen to Fasten Clothing

Per Dozen

No. 10—Nickel or Steel Wire; 3¾ in. Long.....$0.40
Six Dozen in a Box; Weight ½ Lb per Dozen

BLANKET PINS



SURCINGLES

Per Dozen

No. 2—2¾ in. Fancy Cotton Girth Web, 1¾ in. Trunk Web Hose Clasp Buckle; Length 6 ft.; Wt. ¾ Lb. Each.....$4.00
No. 3—2¾ in. Fancy Cotton Girth Web, 1 in. Leather Billet; Length 6 ft.; Weight ¾ Lb. Each.....5.50
No. 4—2½ in. Fancy Cotton Girth Web, 1⅜ in. Leather Billet; Length 6 ft.; Weight ⅞ Lb. Each.....5.00
No. 5—3½ in. White Duck Band Webbing, 1¾ in. Leather Billet; Length 6 ft.; Weight ½ Lb. Each.....6.00
Average Weight per Bundle, 150 Lbs.

Keeps the Blanket or Robe upon the Horse at all times and under all circumstances. It saves the blanket, protects the horse against the weather, and prevents accidents and runaways caused by the blanket or robe coming off of the horse.

The large cut above represents the Handy Holder when closed, while the small cut shows how the Holder is fastened to the trace. The Holder is simply fastened to the underside of blanket or robe and fastened to the trace as shown. The blanket or robe is fastened or unfastened in an instant without unfastening the trace.

Per Dozen

No. 20.....$0.70
Three Dozen in a Box

Kelley-How-Thomson Co. of Duluth

SLEIGH BELLS

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ROUND

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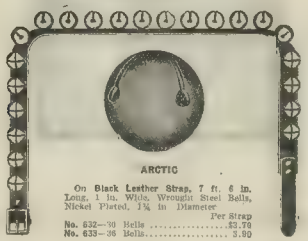

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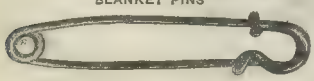

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Per Dozen

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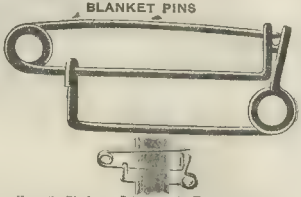

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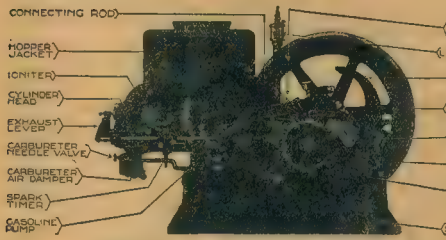
Per Dozen

No. 20.....$0.70
Three Dozen in a Box

THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES

MAROON LINE



Engine with fly wheel removed, showing working parts

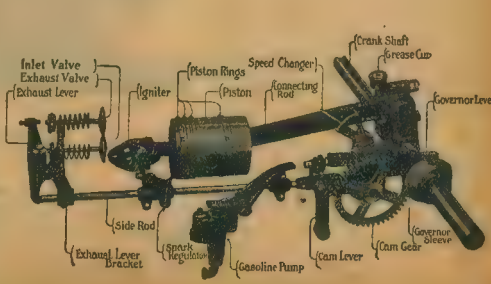
The Alamo Type M Engine is the result of fifteen years of gasoline engine experience combined with engineering skill and the best factory practice. They are of the well known four-stroke cycle type, governed by the hit and miss principle, which is acknowledged the most satisfactory for general service and most economical in fuel.

The engines are all attractive in appearance, symmetrical in design and substantial in operation, with liberal bearing surface for all moving parts. They have large hopper jackets, require a minimum amount of water for cooling, have electrical make and break system of ignition, which is the most simple and reliable for ordinary service. They are manufactured by modern methods in our up-to-date factory equipped with the latest and most efficient machine tools. Nothing but the highest grade material enters in their construction, and the workmanship is of the highest quality.

The Alamo Type M Engine has no parts that are not necessary, and nothing has been left off that would add to its service. All unnecessary parts have been eliminated, and all complication is simplified. All parts are made with ample weight and strength where they are subject to wear. All working parts are in plain sight so that the few adjustments that may be required can be made with ease and with the most simple tools. No special mechanical skill is required to operate an Alamo engine, and plainly written instructions accompany every engine, so that no former knowledge of machinery is required to handle these engines with ease.

The plain view at the side gives good idea of the simplicity of design, it also shows the distribution of metal, heavy bearings set at a thirty degree angle and the substantial design of the base between the cylinder and main bearings, where the greatest strength is required.

Perfect Balance—All Alamo Type Engines are properly balanced. Having an engine in perfect balance eliminates much trouble and annoyance. It is not necessary to bolt down an Alamo Engine, and the portables do not require special braces or pits for the truck wheels. Vibration and wear of the working parts is reduced to a minimum.



Governor—All Type M Engines govern by the hit and miss principle, which is now recognized as the most satisfactory manner to govern engines for general hard service. It permits the engine when running on light load to run with a minimum amount of fuel and with the fly wheel, perfectly balanced, and correct working governor, the regulation of speed is exceptionally close.

THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES

MAROON LINE

Illustrating the 2½ Horsepower Engine. Skids Extra

The Governor is of centrifugal type. On engines smaller than 9 H. P. the governor is mounted in the fly wheel. The larger sized engines have a fly ball gear driven governor. All have speed regulator so the speed may be varied about 25 per cent while the engine is in motion, and permits the engine to be regulated instantly to the proper speed for various machines.

Gears and Cam—Only two gears and one cam are used on the Alamo Type M Engine. The gears are machine cut and the cam is ground on a specially designed machine to exact size, to insure the perfect movement of the valves and igniter.

Gasoline Pump—The Gasoline Pump is unique in construction, being operated by a lever so curved as to make its action noiseless. The pump has no packing whatever, and as it is placed slightly above the level of the carburetor, there is no possible chance for any leak of gasoline. The plunger can be easily removed and the ball valve examined without disturbing other working parts of the pump. The gasoline pump for larger engines is slightly different in design and has more capacity.

Cylinder, Piston and Rings—All cylinders are cast from a special mixture of charcoal iron, which makes a casting of great strength, density and of the greatest wearing qualities. The cylinders are of a pattern which permits of perfect and equal expansion of the cylinder walls, so that the cylinder remains perfectly round and straight under all conditions. The cylinder head is also thoroughly jacketed, and provided with large valves. The valves have cast iron heads and nickel steel stems.

The piston is of the trunk pattern, ample length, carefully machined and ground to size. All sizes are provided with four expansion rings perfectly fitted to the grooves in the piston and pinned in place. Oil grooves are also provided to make certain of perfect lubrication of all parts of the piston rings.

The piston wrist pin is of a large size, case hardened, ground and polished, and securely fastened in a manner which makes it quite impossible for it to become loose.

Alamo Type M Engines have long been notable for perfect fitting pistons and resultant excellent compression.

Illustrating the 3½ and 4½ Horsepower Engine. Steel Skids Extra

Crank Shafts—The crank shafts are forged from solid billets of open hearth crank shaft steel. They are carefully machined and ground accurately to size. The small size crank shafts are drop forged and the larger size hammer forged, and all are made from the same high grade quality of steel.

Connecting Rod—The connecting rod is of the I beam construction, carefully designed of ample length and strength and of steel especially fitted for this service. The piston end is fitted with bronze bushings and the crank end of genuine babbitt metal.

Carburetor—The Alamo carburetors are marvels of simplicity and efficiency. Each carburetor is carefully proportioned for the size of the engine to which it is fitted, and will perefectly control the mixture of gasoline and air under all conditions of service and climate. The size of the opening of the fuel nozzle inside is controlled by a needle valve which, when once set, seldom requires any changing, regardless of the changes of load or the conditions of the atmosphere. A perfectly working carburetor is of the greatest importance for satisfactory operation of the engine.

Magneto—Webster Oscillating furnished with all Alamo Type M Engines. This magneto does away with the use of batteries and furnishes a good spark for starting, as well as when running. It is fastened direct to the igniter, so that there is very little chance of failure by broken connections. A small attachment is provided for tripping the magneto by hand, so that the engine can be readily started by backing it against the compression.

Igniter—The construction of this as most important, as a good sparker is absolutely essential. The Alamo Type M Igniter is simple and rugged in construction. It is fitted to the side of the cylinder, and is held in place by two studs. It may be removed or replaced by only loosening or tightening two nuts. Pure mica is used for the insulation. An outboard bearing is provided for the rotating electrode, which holds it in perfect alignment and insures its always working properly. The igniter points are made of a non-corrosive alloy, the best obtainable for the purpose, and can readily be replaced by any one, without the use of special tools.

Pulleys—Stationary engines of all sizes and hand portable engines are furnished with solid iron pulleys as part of their regular equipment. Portable engines mounted on team trucks are regularly furnished with friction clutch pulleys. The pulleys are keyed and set screwed to the engine shaft and set up close to the hub of the fly wheel. The size of the pulley to be used should always be carefully calculated, as it is of the greatest importance that machinery be run at the proper speed.

THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES

MAROON LINE

Illustrating the 6½ Horsepower Engine

Wood Skids Extra

ENGINES, SPECIFICATIONS AND EQUIPMENT

Nos.	2100	2000	2010	2020	2030	†2040	†2050	†2060
Horsepower	1½	2½	3½	4½	6½	9	12	15
Domestic approximate shipping weight, crated, lbs.	265	375	550	900	1400	2200	3000	3400
Export approximate shipping weight, boxed, lbs.	325	450	700	1100	1650	2550	3400	3800
Export boxed, cubic feet	20	22	28	35	48	80	110	120
Speed R. P. M.	600	500	400	385	360	300	280	280
Floor space, inch	21x42	25x37	28x40	34x48	35x57	41x58	48x75	48x75
Size of pulley, diameter, inch	4	5	8	10	12	18	20	22
Size of pulley, face, inch	4	4	4	6	6	8	10	10
Size of crank shaft, inch	1¼	1⅝	1½	1¾	2	2½	3	3
Size of exhaust pipe, inch	1	1¼	1½	2	2½	2½	2½	3

Alamo Type M engines are regularly equipped without extra charge with muffler attached, magneto, wrenches, oilers, oil can and can of gas engine oil. Small sizes have fuel tank in the base of the engine of sufficient capacity for one day's run. 12 horsepower and 15 horsepower engines are supplied with 50 gallon outside fuel tank. **Small sizes furnished with solid iron pulley.**

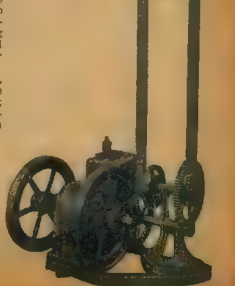
†9, 12 and 15 horsepower furnished without pulley. Plain or clutch pulley for these sizes furnished as an extra.

ALAMO DIRECT CONNECTED PUMPING OUTFIT

1½ AND 2½ HORSE POWER SIZE

These combination outfits are compact and especially suitable for pumping purposes. The engine used is our standard 1½ and 2½-horsepower Alamo gasoline or distillate engine, complete with all catalog fittings and fixtures, including the Webster oscillating type of magneto; engine fitted with our standard make and break ignition. Engine and pump standard fitted to a cast iron sub-base, as per illustration; engine being geared direct to a No. 366 Myers pump jack. This jack is of the standard Myers manufacture with machine cut gears, and is back geared 6 to 1, and has a stroke of 6 and 9 inches, eliminating the use of belt entirely. By removing four bolts from the engine base into the substantial cast iron sub-base, the engine can be removed and is then ready to be used for any other job for which it might be required.

All parts going into the construction of these outfits are uniform and interchangeable, which is a great convenience in ordering such repairs, and in view of the fact that the engine is our regular stock of the Alamo type of engine, and our jack our regular stock of cut gear jacks, this puts us in a position to at all times take care of requests for duplicate parts out of our stock, preventing delay in ordering such parts for combinations offered that are not our regular stock.



PUMP JACK. CAST IRON SUB-BASE AND PINION

FOR 1½ HORSE POWER ALAMO

Weight, lbs .....
Each .....

FOR 2½ HORSE POWER ALAMO

Weight, lbs .....
Each .....

Outfits 2160-366 and 2000-366 same as 2160 and 2000, but with direct connected No. 366 pump jack and cast sub-base.

Weight, lbs .....
Each .....

GOGGLES

Shell Frame with Ventilated Leather Side Guards and Rust-proof Flexible Cable Temples of White Metal; Covered Steel Case with each Pair.

Per Dozen Pairs

No. Z1—1¾ in. Amber Lenses $16.00

Self-Adjusting, Refinement, Comfort, Convenience and Complete Protection. Shell Rims, Ventilated Leather Side Guards and Rust-proof Flexible Cable Temple of White Metal. A Pure Silk Bridge adjusts goggles automatically. Each pair in a steel case.

Per Dozen Pairs

No. Z2—1¾ in. Round Amber Lenses $24.00

Ventilated Leather Side Guards, Flexible Cable Temple, Adjustable Brass Bridge, Round Lenses. The Brass Bridge Fits Goggles snug to any Face and permits ordinary glasses to be worn underneath. Used by Aviators, Machinists, Grinders, and Railroad Men Everywhere. Used by British and U. S. Government for Military Service.

Per Dozen Pairs

No. A1—1⅞ in. Amber Lenses $16 00

TWO-COLOR HI-LO GOGGLES

Combination Amber, with Green Dimmers

Per Dozen

No. H2½—White Rubber Frame. Combination Amber and Green Dimmer; Well Ventilated; Elastic Bands for Fastening $8 00

The Willson Display Case Assortment includes a mahogany-finish, glass top display case and a complete assortment of goggles with amber, smoke, olive green and clear lenses in the best selling shades. The case measures 13⅝x15⅝x12⅜ in. and holds your stock. Following table shows the quantities, style numbers and prices of goggles in the outfit

You double your money on refill stock, which can be ordered in any quantity or assortment.

GOGGLE ASSORTMENT

Quantity	Style No.	Old Style No.	Per Pair
6	N65	Z594	$0 75
2	Z57	Z5594	1 00
4	N68	Universal	1 00
3	K7	K7	1 00
3	A1	A1	1 25
2	K1	K1	1 25
2	Z21	Z21W	1 00
2	Z1	Z1W	1 25
2	Z2	Z2W	1 75
2	Z5	Z5	1 25
2	Z51	ZD9609	75

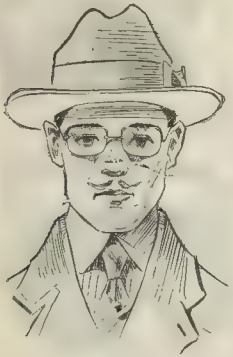
Shipping Weight, 16 Lbs. Cannot be mailed.

No. 1—Consisting of Thirty Goggles in Eleven Standard Styles and the Display Case ....

Per Assortment $32 25

5090 *Kelley-How-Thomson Co. of Duluth*

GOGGLES



MOORE MOTOR GOGGLES

The Lens can be Adjusted to Any Position which Affords the Best Protection to the Eyes, Day or Night

Automobile Drivers—For automobile drivers this is the perfect goggle as it can be adjusted to prevent the glare of headlights on other autos from blinding you. It relieves the eye strain and makes motoring a pleasure.

Steamboat Captains—Steamboat captains should not be without these as many lives are dependent upon his clear vision and commands. They will protect his eyes from the searchlights while entering the harbor and the glistening sun on the water.

Trap Shooters—Uncle Sam says "Hooverize" and to the true sportsman who wants every shot a hit, **Moore Motor Goggles** offers a sure guarantee. As the bird sails away in the air his "sight" is not destroyed by the bright sun although he has a clear vision of the mechanical parts of the gun at all times.

Street Car Motormen—To the street car motormen and the engineers these goggles will fill a long felt need. They will prevent the eye strain due to the bright glare of the sun and dazzling lights at night where the tracks run parallel with the public highway.

Golfers—To the golfer **Moore Motor Goggles** will prove a splendid asset. As he is sighting for that difficult hole his vision is not impaired by the dancing heat waves of an afternoon sun.

Housewives—The housewives who are "doing their bit" at home by sewing and knitting garments for the Red Cross for the boys "over there" will find these goggles an excellent aid to speed as they relieve the eyes of strain caused by the reflection of artificial light.

Heavy, Gold Plated Frame, with Flexible Cable Temple; Long Brace Bridge; Shaped Lens which can be adjusted to suit the occasion by simply pushing up or down; Lens firmly held in any position by means of tension ratchet at right hand side.

	Per Pair
No. MA—Amber Lens	$4.00
No. MLS—London Smoke (Green) Lens	4.00

GOGGLES

Rust-proof White Metal Frame with Easy Cable Temple; Large Round Lenses. A useful, inexpensive style for Driving, Motoring and Industrial Purposes, such as Grinding.

Per Dozen Pairs

No. N65—1¾ in. Amber Lenses.....$4.00

Shell Rim, with Flexible Cable Temples. Round Lenses; A Very Attractive Spectacle.

Per Dozen Pairs

No. Z57—1⅞ in. Amber Lenses.....$10.00

Shell Frame, with Rust-proof, Flexible Cable Temples of White Metal. Ideal for Recreation and Sports.

Per Dozen Pairs

No. Z21—1¾ in. Round Amber Lenses.....$12.00

All-Shell Spectacle, with Round Lenses. A distinctive and conservative style for resort and street wear.

Per Dozen Pairs

No. K7—1⅝ in. Amber Lenses.....$12.00

An unusually distinctive design in Imitation Shell Rims with Long Spring and Black Metal Guards; Round Lenses. A much preferred style by women who like protection without temples.

Per Dozen Pairs

No. Z5—1⅝ in. Amber Lenses.....$16.00

A handsome, conservative Drop Eye Glass for general wear. For Sun and Glare Protection.

Per Dozen Pairs

No. Z51—1⅝ in. Amber Lenses.....$8.00

All-Shell Goggle with Ventilated Side Guards; Strong, Light and Compact. Each Pair in a Steel Case.

Per Dozen Pairs

No. K1—1¾ in. Round Amber Lenses.....$15.00

Rust-proof, White Metal Frames, with Strong Wire-Screen Side Guards, Flexible Cable Temples and Round Lenses. Much used to reduce spark glare and as protection from flying dirt and small particles. Each pair in a steel case.

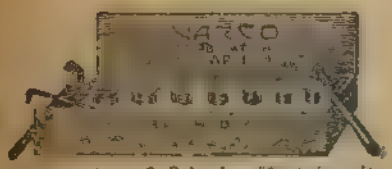
Per Dozen Pairs

No. N86—1⅞ in. Amber Lenses.....$10.00

VARCO AUTOMOBILE TOOLS

Our sockets are made of an especially selected alloy steel of high physical characteristics, and are subjected to an exacting heat treatment. The object of the modern hardening and tempering process is to create a structure within the material which will resist deformation to the highest degree, and it is in the hands of the skilful hardener to determine the proper heats and duration to which a material has to be subjected in order to arrive to its maximum strength and toughness. These tools are not stamped or pressed of tubing or pipe, but broached into solid material of superior quality, thereby insuring not only highest strength, but accuracy as well. The handles are made of heavy material, ⅝-inch diameter, which allows a liberal offset, and consequently proportionate tightening power, without precipitating a twisting or breaking off and the tools are practically indestructible. An entirely new departure is the interchangeability of sockets to the handle. The advantage of this feature is evident, as it allows the user the full range of a complete set without the necessity of having a different handle for each size socket. Fastened to the handle by means of a most simple and at the same time ingenious expansion arrangement, the sockets fit to the handle as if made of one piece, and can only be removed if so intended yet in a moment's time. The above described feature of interchangeability makes it possible to sell any combination of handles and sockets without the necessity of carrying a large stock, a fact which certainly will be appreciated by any merchant. The stock required for wrenches whose sockets and handles are either made of one piece or fastened solidly together is many times larger, whereas a moderate stock of our socket wrenches is sufficient for any combination.

COMBINATION SOCKET WRENCH SET



This is a small yet very useful set, which takes up but very little space and as a consequence is easily carried. These sockets fit and cover practically any nut in an automobile.

Contents: 1 8-inch offset handle, ⅝-inch diameter. 1 8-inch extension. 1 screw driver. 7 hexagon broached alloy steel sockets, heat treated, thin walls yet of extreme strength and toughness. Sockets easily interchangeable. Patented rigid taper fit of sockets to handle. Size: ¼-inch screw size to ⅝-inch screw size inclusive S. A. E. standard and corresponding U. S standard sizes. Openings: ⅛, 5/32, 3/16, ¼, 5/16, 11/32, 1 7/32-inch. Sockets are broached 1/32-inch larger than above dimensions. Handle and extension beautiful black glossy oil finish. Sockets blue tempering color. Rust proof. In a wooden box.

No. 99 ..... Each $6.50

RED BUTTON SPEED WRENCH SET

Contents: 1 red button speed wrench handle, ⅝-inch diameter, 4-inch shank. 1 offset wrench handle, 8-inch. 2 extensions 8-inch and 12-inch long. 1 screw driver. 7 hexagon broached alloy steel sockets, heat treated, thin walls, yet of extreme strength and toughness. Sockets easy interchangeable. Patented rigid taper fit of sockets to handle. Size: ¼-inch screw size to ⅝-inch screw size inclusive S. A. E. standard and corresponding sizes to U. S. standard. Openings: ⅛, 5/32, 3/16, ¼, 5/16, 11/32, 1 7/32-inch. Sockets are broached 1/32-inch larger than above dimensions. Handles and extensions beautiful black glossy oil finish. Speed button red enamel. Sockets blue tempering color. Rust proof. In a wooden box.

No. 100 ..... Each $9.50

RED BUTTON SPEED WRENCH SET

Contents: 1 red button speed wrench handle ⅝-inch diameter, 4-inch shank. 1 offset wrench handle. 2 extensions 8 and 12-inch long. 1 screw driver. 15 hexagon broached alloy steel sockets, heat treated, thin walls, yet of extreme strength and toughness. Easy interchangeable. Patented rigid taper fit of sockets to handle. Sizes: ¼-inch screw size to ⅝-inch screw size inclusive S. A. E. standard. ¼-inch screw size to ¾-inch screw size inclusive U. S standard ¼-inch screw size to 1-inch screw size inclusive cap screw size. Openings: ⅛, 5/32, 3/16, ¼, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 17/32, 9/16, 19/32, 5/8-inch. These openings will accommodate any size nut and bolt head in any hexagon system. Sockets are broached 1/32 larger than above dimensions. Handles and extensions beautiful black glossy oil finish. Speed button red enamel. Sockets blue tempering color. Rust proof. In a wooden box.

No. 110 ..... Each $14.30

COMBINATION WRENCH PARTS

⅝-inch diameter. Black glossy oil finish. Rust proof. Red enamel button. In a cardboard box.

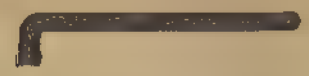
No. 250—Red button speed wrench handle, 4-inch shank. Each $1.30

No. 251—Red button speed wrench handle, 6-inch shank. Each $1.30

No. 252—Red button speed wrench handle, 12-inch shank. Each $1.45

VARCO AUTOMOBILE TOOLS

COMBINATION WRENCH PARTS



⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 257—Offset handle, 6-inch lever	Each	$0.90
No. 258—Offset handle, 8-inch lever	"	1.00
No. 259—Offset handle, 12-inch lever	"	.90

Six in a cardboard box.

⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 260—T handle, 6-inch shank	Each	$0 90
No. 261—T handle, 10-inch shank	"	1.00
No. 262—T handle, 12-inch shank	"	1.10

Six in a cardboard box.

⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 263—Extension square, 6-inch long	Each	$1.10
No. 265—Extension square, 12-inch long	"	1.20

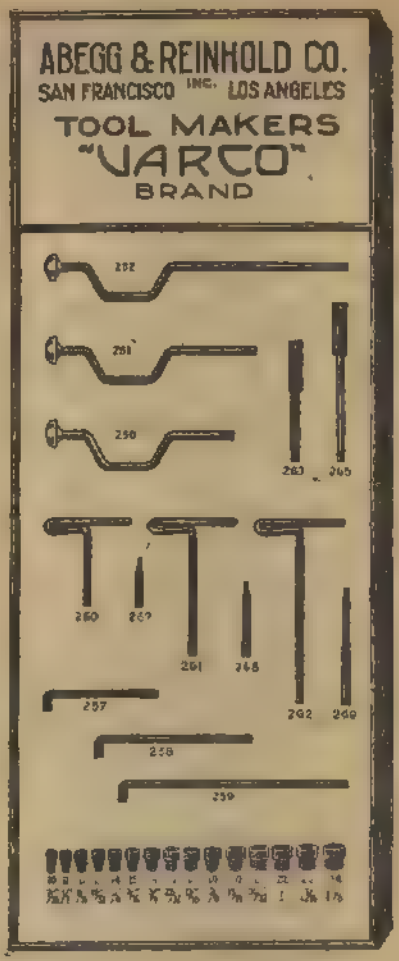
Six in a cardboard box.

This attachment can be used in a regular bit brace for using our sockets. Black glossy oil finish. Rust proof.

No. 267—Bit shank, 4-inch	Each	$0 80
No. 268—Bit shank, 6-inch	"	.80
No. 269—Bit shank, 8-inch	"	.80

Six in a cardboard box.

DEALERS DISPLAY STOCK BOARD



These highly ornamental boards carry the different handles and extensions together with sockets, and in this way they offer a practical solution of display and selling medium. Sockets and handles being interchangeable any desired combination can be obtained and consequently a comparatively small stock will be found sufficient—a welcome feature for the merchant, no doubt.

Sockets

		Each	
12	7/16-inch	$0.50	$6 00
12	½-inch	.50	6 00
12	9/16-inch	.50	6.00
12	5/8-inch	.50	6.00
12	11/16-inch	.50	6.00
12	¾-inch	.50	6.00
12	13/16-inch	.50	6.00
12	⅞-inch	.50	6.00
12	15/16-inch	.65	7 80
12	1 -inch	.65	7.80
12	1 1/16-inch	.65	7.80
12	1 1/8-inch	.75	9 00
12	1 ¼-inch	.75	9.00

		Each	
6	No. 250 red button speed wrench handles, 4-inch shank	$1.30	$7 80
6	No. 251 red button speed wrench handles, 6-inch shank	1.30	7.80
6	No. 252 red button speed wrench handles, 12-inch shank	1 45	8.70
6	No. 257 offset handles, 6-inch shank	.90	5.40
6	No. 258 offset handles, 8-inch shank	1.00	6.00
6	No. 259 offset handles, 12-inch shank	.90	5.40
6	No. 260 T handles, 6-inch shank	.90	5.40
6	No. 261 T handles, 8-inch shank	1.00	6.00
6	No. 262 T handles, 12-inch shank	1.10	6 60
6	No. 263 extensions, square shank, 6-inch long	1.10	6.60
6	No. 265 extensions, square shank, 12-inch long	1.20	7.20
6	No. 267 bit shanks, 4-inch long	.80	4.80
6	No. 268 bit shanks, 6-inch long	.80	4.80
6	No. 269 bit shanks, 8-inch long	.80	4.80
Board			$6.20
No. 300—Complete			$194 90

Same board with one-half the number of tools.

No. 300½—Complete $99 50

VARCO AUTOMOBILE TOOLS

MAIN BEARING BOLT WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 355—Complete . . . . . Each $1.80
Single Sockets . . . . . " .90

FLYWHEEL CAP SCREW WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 370—Complete . . . . . Each $1.80
Single Sockets—$\frac{11}{16}$-inch hexagon . . . . . " .50

HUB CAP SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 380—Complete . . . . . Each $2.20
Single Sockets—For hub cap . . . . . " .75

CONE ADJUSTING SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 385—Complete . . . . . Each $2.20
Single Sockets—For cone . . . . . " .75

CYLINDER HEAD BOLT, REAR AXLE HOUSING NUT WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 395 . . . . . Each $2.40

SPINDLE BODY BUSHING

Tool is placed head first into the opening of the spindle body from below; the legs acting like spring will open up, thereby resting on the bushing. A few taps on the head of the driver will remove the bushing.

No. 500 . . . . . Each $1.10

VALVE SETTING GAUGE

A—Distance from top of piston to cylinder casting when intake valve commences to open at beginning of suction stroke.
B—Distance from top of piston to cylinder casting when intake valve closes at beginning of compression stroke.
C—Distance of top of piston above cylinder casting when exhaust valve must close.
D—Distance from top of piston to cylinder casting when exhaust valve commences to open at end of expansion stroke.

No. 505 . . . . . Each $1 10

DRIFT PUNCH

No. 510—Drift punch, ⅝-inch octagon by 8-inch hexagon, 4-inch taper . . . . . Each $0.80
No. 511—Drift punch, ¾-inch octagon by 12-inch hexagon, 12 inch taper . . . Each $1.00

ASSEMBLY BOARD FOR FORD CARS

Represents the latest design in tools for Ford assembly.

While especially constructed to meet the requirements of the assembly mechanic, they are also preferable to the car owner.

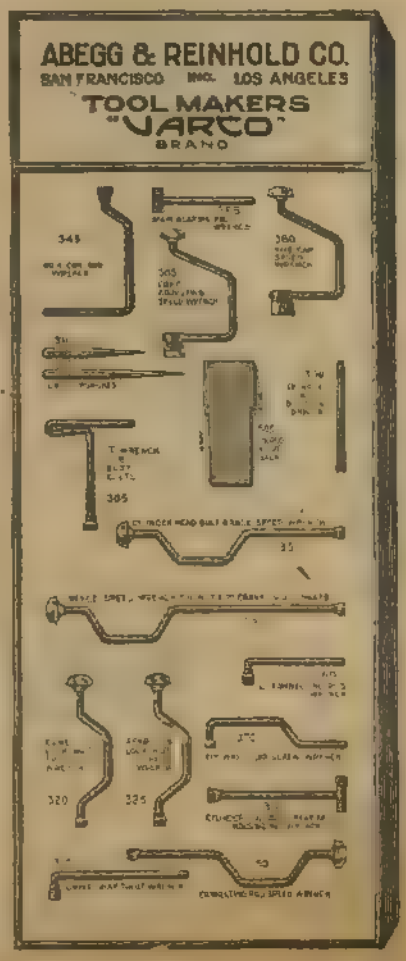
The same material feature of interchangeability, guarantee, etc., goes with these tools.

The display board is beautifully finished and is furnished at an additional charge with above assortment of wrenches

Contents

	Each	
3 No. 305	$1.50	$4 50
3 No. 320	2.05	6.15
3 No. 325	1.95	5 85
3 No. 330	2.00	6.00
3 No. 335	1.95	5.85
3 No. 340	1.50	4.50
3 No. 345	1.90	5.70
3 No. 350	1.80	5.40
3 No. 355	1.80	5.40
3 No. 370	1.80	5.40
3 No. 375	1.65	4.95
3 No. 380	2.20	6.60
3 No. 385	2.20	6.60
3 No. 395	2.40	7.20
3 No. 500	1.10	3.30
3 No. 505	1.10	3.30
3 No. 510	.80	2.50
3 No. 511	1.00	3.00
Board		$4.50

No. 600—Complete . . $896 50



VARCO AUTOMOBILE TOOLS

FOR FORD CARS

T WRENCH FOR BODY BOLTS, FRONT AND CENTER

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 305—Complete. Shank, 10-inch long.....Each $1.50
Single Sockets—1⅛-inch hexagon..... " .50

REAR BODY BOLT NUT L WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 310—Complete. Handle, 10-inch long.....Each $1 50
Single Sockets—1⅛-inch hexagon..... " .50

CONE LOCK NUT SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 320—Complete. Shank, 4-inch long.....Each $2.05
Single Sockets—1⅛-inch hexagon..... " .75

REAR HUB LOCK NUT SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 325—Complete. Shank, 4-inch long.....Each $1.95
Single Sockets—1⅛-inch hexagon..... " .65

BRACE SPEED WRENCH CYLINDER TO CRANK CASE UPWARD

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 330—Complete. Shank, 16-inch long.....Each $2.00
Single Sockets—⅞-inch hexagon..... " .50

CYLINDER HEAD BOLT BRACE SPEED WRENCH

⅝ inch diameter steel handle. Pressed steel knob. Red enameled Revolves as if on ball-bearings. Knob red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 335—Complete. Shank, 12-inch long.....Each $1.95
Single Sockets—⅝-inch hexagon..... " .50

L CONNECTING ROD WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 340—Handle, 8-inch long.....Each $1 50
Single Sockets—⅝-inch hexagon..... " .50

CONNECTING ROD WRENCH NO. 4

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 345—Complete .....Each $1.90
Single Sockets—⅝-inch hexagon..... " .50

CONNECTING ROD SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 350—Complete. Shank, 4-inch long.....Each $1 80
Single Sockets—⅝-inch hexagon..... " .50

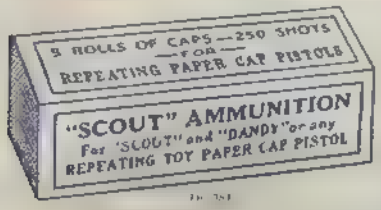
4TH OF JULY GOODS

The demand for patriotic celebration and decorative goods is greater than it has ever been since the restrictions on Fire Works were imposed. This should cause you to provide a line of these specialties which you can safely carry in stock and handle the same as ordinary counter goods.

➡Important Notice—Interstate Commerce regulations prohibit the packing of paper caps or metallic ammunition with other goods. Our caps and ammunition are shipped in original packages. Note carefully how goods are listed⬅

"SCOUT" AUTOMATIC REPEATING CAP PISTOL AND AMMUNITION

"Scout" is probably the most satisfactory repeating pistol. Advertised, sells freely, works perfectly and gives general satisfaction.



1K7380—Automatic cap pistol, excellent model of pocket automatic, blued finish, stamped steel case, all action repeater, easy working, fine quality. Packed 1 pistol in carton. Gro. $23.50 ..... Doz. $2.10

1K7381—Ammunition for "Scout" automatic pistol, 50 rolls of caps in each box. Gro. boxes $4.50 Doz. boxes 40c

Important—Orders for pistols must include orders for ammunition in proportion of not less than 5 oz. ammunition to one oz. pistol. Orders which do not conform with this will be changed to agree.

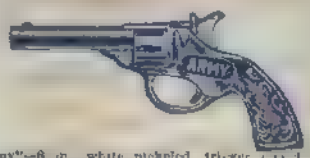
1K7380

PAPER CAP PISTOLS

Attractive models, smooth action, easy for children to work

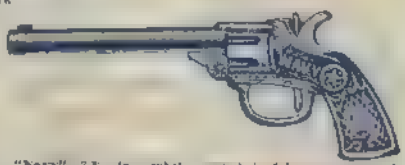
"Gem"—3½ in. white nickeled.

1K6972—1 doz. in box. Gro. $3.75 Doz. 35c



"Army"—8 in. white nickeled, trigger guard, 6 shot revolver model

1K6973—1 doz. in box. Gro. $15.50 Doz. $1.35

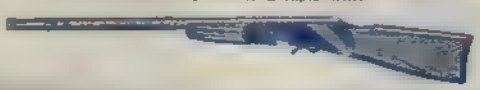


"Navy"—7½ in. white nickeled, trigger guard, 6 shot revolver model

1K6974—1 doz. in box. Gro. $22.00 Doz. $1.95

"SCOUT" REPEATING RIFLE

This novelty will be a rapid seller



1K7382—30 inches long, walnut stock and fore piece, blued barrel, has safety device, shoots caps, loads by pulling down lever, repeating action, very strong. It is necessary to use a specified amount of powder. Box. To ride 1 doz. in box. Doz. $6.00

ROUND CUT PAPER CAPS

Full count best quality 144 caps in carton

Caps cannot be packed with other goods but must be enclosed in a separate case. Therefore we cannot fill orders for less than 3⅓ (50) either of one number or assorted

1K6795—50 caps in box. 5 strips of caps per box. Gro. boxes 67c

1K6796—25 mammoth 15 caps in box. 3 strips of caps per box. Gro. boxes 70c

1K6797—30 mammoth 50 caps in box. Gro. boxes $1.65

ELECTRIC SPARKLERS AND NOVELTY LIGHTS

Not in stock—packed one gross to the box. These must be carried in stock without affecting insurance. Take only any handy to get a large supply of the Sparklers as we can fill orders promptly. We have selected a short list of standard numbers and increased production permits us to offer Sparklers at prices only possible in large quantities.

Important—Our sparklers are of standard manufacture and produce a maximum of sparks when ignited

1K7040—"Mammoth" sparkler, 10 in. long, fancy decorated 1 doz. in box. Gro. $4.80 ..... Doz. 42c

1K7050—Sparkler, 7½ in., 10 sparklers in box, 12 boxes in container. Gro. boxes $4.80 Doz. boxes 42c
10 gro. boxes Gro. $4.50

Colored Novelty Lights—Shower of electric sparks in a color of your choice. 1 doz. in box. 12 boxes in carton.

1K7051—RED ..... Gro. boxes $4.80 Doz. boxes 42c
Lots of 1 gro. Gro. boxes $4.50

1K7052—GREEN ..... Gro. boxes $4.80 Doz. boxes 42c
Lots of 1 gro. Gro. boxes $4.50

1K7053—Sparkler, 15 in. long. 1 doz. in box. 12 boxes in container ..... Gro. boxes $9.50 Doz. boxes 85c
Lots of 1 gro. Gro. boxes $9.00

1K7054—Sensational parasol, 40 sections, 3 ft. This is a new novelty. 1 doz. in box. 12 boxes in carton.
Case lots 1 gro. Gro. $10.50 Doz. boxes 95c

Order Early

This will be a big celebration year. Order your stock early so that you will be sure of a large enough supply to fill your needs.

Safe Goods

These sparklers can be carried in stock without affecting insurance. They are liberally coated with composition to produce full blaze of sparks

Flags and Bunting

This showing [illegible] every grade of flag for which there is an active demand. These meet standard specifications as to color, size and proper construction. Now is the time to prepare for the usual rush of Summer business. We have the goods in stock ready to ship to you

U. S. PRINTED MUSLIN FLAGS Mounted

Best 4-color, printed fast color muslin flags mounted on clean wood staff

No.	Size	Each	Doz.
1K7200—	2 x 3 ft.		$0.65
1K7201—	2½ x 4		.85
1K7202—	3 x 5		1.30
1K7203—	4 x 6	1 grn. in pkg.	2.00
1K7204—	5 x 8		3.20
1K7205—	6 x 9		4.00
1K7206—	8 x 12		6.25

No.	Size	Each	Doz.
1K7207	7 x 10	$9.75	$0.85
1K7208—	7½ x 12	12.00	1.15
1K7209—	8A 4½ x 6	15.50	1.50
1K7210—	8 5 x 8	22.50	1 doz. in pkg. 2.25
1K7211	9 6 x 9		4.25
1K7212—	10 6½ x 9½		5.50
1K7213—	11 8 x 10		6.50
1K7214—	11½ 8½ x 10		6.95

U. S. PRINTED COTTON FLAGS—Mounted

Soft weave cotton, mounted on smooth finished staffs, gold spear head ornaments

6-ft. spearhead staffs, soft finish closely woven muslin. Popular for parades and decorative displays

	Size	Each	Gro.	Doz.
1K7275—	3x5 ft.	1 in bdl.	$ 6.75	$0.60
1K7276—10%	4 x 6	" "	9.25	.80
1K7276	4 x 6	" "	11.75	1.05
1K7277	5x8	" "	22.00	1.75
1K7279	6x10	" "	30.50	2.65
1K7279—	8x12	" "	45.00	3.95

U. S. PRINTED SILK FLAGS Mounted

Best weave silk printed in true natural colors mounted on black enameled staff with gilt spear head

	Size	Doz.
1K7251	4x6	$1.25
1K7252	5x8	1.95
1K7253	7x10	2.95
1K7254	8x12	4.50
1K7255	10x18	5.25
1K7256	12x18	6.00
1K7257	16x24	10.50

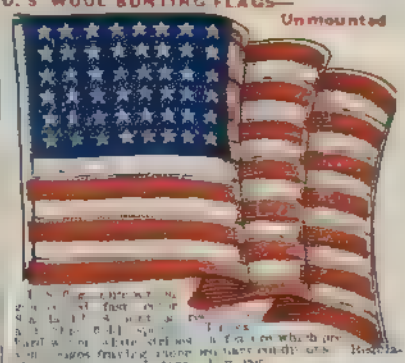
U. S. IMITATION WOOL BUNTING SEWED FLAGS Unmounted

Recommended for APPEARANCE SERVICE AND VALUE

Specially woven cotton fabric, a perfect imitation of wool bunting at low cost. Sewed stripes, stars are carefully hand sewed with extra grommets

	Size	Doz.	Each
1K7241	2 x 3 ft.	$13.50	
1K7243	3 x 5		$2.00
1K7246—4	4 x 6		2.50
1K7247—5	5 x 8		3.75
1K7248—6	6 x 10		4.95
1K7249—8	8 x 12		7.50
1K7244—10	10 x 15		10.00

U. S. WOOL BUNTING FLAGS— Unmounted



[illegible] stripes sewed stars [illegible]

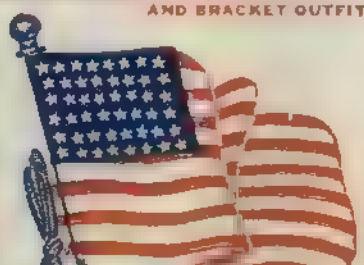
	Size	Each
1K7221	2 x 3 ft.	$ 1.85
1K7223	3 x 5	3.25
1K7225—4	4 x 6	4.35
1K7225	4 x 8	5.60
1K7226	5 x 8	6.75
1K7228	5 x 10	8.25
1K7227	6 x 10	9.50
1K7227	6 x 12	11.65
1K7228	8 x 12	14.60
1K7229	7 x 14	15.00
1K7229	8 x 15	19.05
1K7230	9 x 18	23.50

U. S. UNION BUNTING SEWED FLAGS Unmounted

Sewed stripes, printed stars, canvas heading and ties, grommet reinforced

	Size		Doz.
1K7264—	3x5 ft.	1 doz. in pkg.	$9.75
1K7265—	4x6 "	1 in box	Each 1.25
1K7266—	5x8 "	1 "	" 1.95
1K7267	6x10 "	1 in bdl.	" 2.75

COMPLETE U. S. FLAG, POLE AND BRACKET OUTFITS



1K7271—8x5 ft. printed cotton bunting flag, 6 ft. 1 pc. wall bracket, halliard and pole with ball top, and hail yards [illegible] stapled. 1 outfit in bdl. Doz. Outfits $11.25

1K7279—8x5 ft. printed cotton bunting flag, 6 ft. jointed 2 pc. pole with ball top and halliard, halliard bracket, complete in carton box. 1 outfit in box Outfit $1.50

★ Prices marked with a star (as ★80) are "special" for the current month —See "STIMULATOR" PAGES

U. S. JAP SILK FLAGS Mounted

Mounted on black stick, gilt spear top

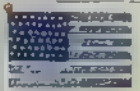
	Size	Each	Doz.
1K7622—	2x3 in.	1 grn. in box	★1.65
1K7623—	3x4 "	1 doz. in pkg.	
		Grn. ★3.50	Doz. ★30
1K7624	5x8 "	1 doz. in pkg.	
		Grn. ★6.75	Doz. ★60
1K7625—	7x10 "	1 doz. in pkg.	
		Grn. ★15.00	Doz. ★1.35
1K7626—	8x12 "	1 doz. in pkg.	
		Grn. ★20.00	Doz. ★1.75
1K7627—	10x15 "	1 doz. in pkg.	
		Grn. ★28.50	Doz. ★2.50
1K7628—	12x18 "	1 doz. in pkg.	
		Grn. $45.00	Doz. $3.95

U. S. JAP SILK LAPEL FLAGS

1½ in. gold top brass pin reversible silk bow Gro.
1K7629— 1 in. bow ½ gro. box, ★95
1K7630— 1½ " " gro. in box, Grn. ★1.10

1K7298— 1½ in. high grade silk plated hand [illegible] bow, gold top brass pin, 1 doz. on card, 3 cards in one [illegible] Doz. 15c

U. S. JAP SILK FLAG PIN



NOTE: Sizes are approximate

1K7621 ½ in. brass pin ball top. 1 gro. in box Gro. ★95

FAST COLOR DECORATIVE BUNTING

Commercial, fast print on soft finish cheesecloth [illegible] approx. 27 in. wide. 50 to 65 yds. in pc.

1K7285— Tricolor, printed red, white and blue stripes Yd. 17c

1K7289 Stars and stripes, red white and blue parallel stripes with silvered stars Yd. 17c

1K7290— White Star, red white & blue paralleled stripes, blue stripe dotted with white stars Yd. 17c

Celebration Goods

JAP LANTERNS

Popular sizes and colorings

1K7613 — Solid colors, 7x12 in. Assorted popular green, red, pink and yellow. Asstd. Doz. in box. (Total $2.50) Doz. $1.25

1K7612—Approx. 7x12 in. Assorted printed and floral designs with gold paper streamers. Asstd. 2 doz. in box. Doz. $2.40 (Total $4.80)

Oval Flat Jap with wire stays and ring for cord & wire stripes over cord. Covered base and cap.

1K7612—Approx. 7½x10. 3 doz. in box. Doz. $1.35 (Total $4.05)

1K7614—Approx. 9x12. 2 doz. in box. Doz. $1.35 (Total $2.70)

REVOLVING SHADOW LANTERN

1K7617—Gilt silk crepe hanging head ornament, bottle post supports carousel with suspended animal cut-outs heat [illegible] Doz. $2.25

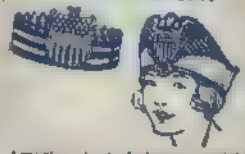
PARTY OR CARNIVAL HATS

For children or adults suitable for all celebration or patriotic purposes

1K7354 — 4 styles fine crepe paper in gay colors, edges [illegible] Asstd. 2 doz. in box. Popular for parties [illegible] Doz. 33c (Total $3.96) Gro. $3.50

Yankee Doodle Very popular colonial hat with tri-color feathers. A winner with the little fellows

1K7[illegible] Asstd. 1 doz. in box. Doz. 42c (Total $5.04) Gro. lots $4.75



American Asstd. Indian [illegible] Asstd. 3 doz. in box. (Total $5.76) Doz. 42c Gro. lots $4.75

Parrot Asstd. Uncle Washington, Yankee Doodle, colonial and [illegible] Asstd. 2 doz. in box. (Total $1.20) Doz. 42c Gro. lots $4.75

CONFETTI

A popular [illegible]

Rainbow" — Round [illegible] colors, fluffy and [illegible] Doz. 7 oz. [illegible] Doz. $1.25

Good Luck" [illegible] Doz. $1.65

[illegible] Doz. 45c

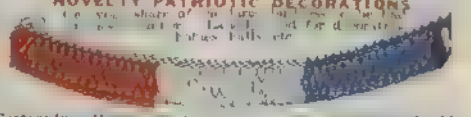
RED WHITE & BLUE TISSUE BALLOONS

Goods that are safe to carry and that are profitable

Special tough 20oz. tissue [illegible] shape full cut, tested and inspected each, with [illegible] Doz.

1K7300—	[illegible]	$1.15
1K7301	42	.50
1K7302	54	2.25
1K7303	[illegible]	2.85

NOVELTY PATRIOTIC DECORATIONS



[illegible] Doz. sets $1.50

[illegible] Doz. 38c, 65c

[illegible] Doz. sets $1.50

HAND DECORATED JAP LANTERN ASSTS

Colorful hand decorations on these in asstd. shapes

1K7610 Asstd. styles over 8x11 Asstd. 3 doz. in box Doz. $1.35

1K7611 Asstd. styles over 9 [illegible] Asstd. 2 doz. in box Doz. $2.25

Bells— [illegible] white & blue [illegible] asstd. scalloped [illegible] embossed bells with [illegible] for hanging

P3824—8 in. bell 3 doz. in pkg. Doz. 39c

P3825—12 in. [illegible] doz. in pkg. Doz. 77c

Hanging Decoration [illegible] 14 in. red, white & blue foil [illegible] honeycomb [illegible] wire frame, scalloped edges [illegible] honeycomb [illegible] suspension center

[illegible] pkg. Total $1.20 Doz. 89c

LARGE SIZE CHARACTER DOLLS

Popular for all kinds of celebrations [illegible] heads and hands, painted features and hair, concealed hip and shoulder joints.

Clown 30 in. [illegible] muslin [illegible] costume, ruche neck [illegible] cap to match, white slippers.

P7962—1 in box Each $1.80

Soldier— 30 in. [illegible] regulation khaki color [illegible] blouse [illegible] across body [illegible] and cap

P7961—1 in box Each $1.80

Sailor—30 in. [illegible] regulation navy blue [illegible] middy collar and [illegible] with [illegible] and shoes

P7[illegible]—1 in box Each $1.80

Nurse 30 in. [illegible] blue chambray costume, white apron and cap, white slippers

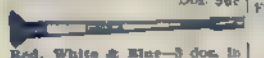
P7960—1 in box Each $1.80

Bathing Girl 30 in. black and white check bathing costume, bloomers and 1 piece to match, cap with colored ribbon bows.

P7958—1 in box Each $1.50

Celebration Goods

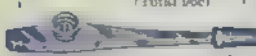
BELL BOTTOM TIN HORNS
Turned wood mouthpieces, loud brass reeds, well finished
Polished
F2304—9 in. 3 doz. in box (Total $1.44) Doz. 48c
F2305—16 in. 1 doz. in box Doz. 96c



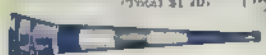
Red, White & Blue—3 doz. in box.
F2306—8 in. Doz. 48c Total $1.44
F2307—14 in. Doz. 96c Total $1.88

NOVELTY HORNS
Excellent for party favors, souvenirs and carnival use.

Auto Toot—7 in. red, white & blue paper covered horn, crying attachment in mouthpiece and toot reed
F2307—3 doz. in box Doz. 48c (Total 96c)



Jazz Band—7½ in. bright metal, turned wood mouthpiece, loud brass reed imitates musical instruments and birds etc.
F2308—1 doz. in box Doz. 85c (Total $1.70)

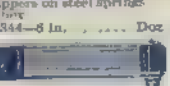


Red, White and Blue—14 in. extra wood slide, nickel and large bell bottom, brass reed
F2310—1 doz. in box Doz. $1.15

Combination Bell and Horn—10 in. polished, extra wide bell bottom, turned wood mouthpiece and clapper, loud reed
F2311—1 doz. in box Doz. $1.35

Pipe Novelty—9 in., heavy red fiber, red, white & blue paper covered bowl, imitates baby crying "mama" and "papa."
F2312—1 doz. in box Doz. 45c (Total 90c)

CARNIVAL RATTLES
Unrivaled noise-makers



Clapper—8½ in. hollow wood body and handle, colored, with clappers on steel springs doz. in box
F2344—8 in. Doz. 45c

Crickets—Hardwood, turned wood hand rockers, fitted with strong clapper
F2345—1¼ in. Doz. 47c
F2346—1½ in. " 89c

"3-in-1 Horn & Cricket"—Smooth finish wood, stained ratchet and cricket clamp hollow turned wood handle with brass reed. 1 doz. in box
F2350—9½ in. Doz. 84c

CARNIVAL ROOTER
Unrivaled noise-makers

F2347 — Heavy IX polished stamped tin, metal crank, each in carton. 1 doz. in box. Doz. 95c

METAL WHISTLES
Extra loud nickel plated brass bodies, in two styles

Warbler—1½ in., extra loud cork warbler ring for chain
F2348—1 doz. in box Doz. 48c

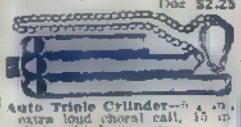
Scout—as police or Boy Scout, nickel plated double ball, each in box.
F2349—1 doz. in carton. Doz. 85c

Postman's or Traffic—in nickel barrel with cork warbler ring, musical
F2350—1 doz. in box Doz. 96c

Dentine Whistle—2½ in., long, nickel plated
F2360—1 doz. in carton. Doz. 96c

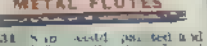
Boy Scout—3¼ in., gun metal finish brass, shrill double call, ring and official scout emblem.
F2361—1 doz. in box Doz. $2.15

Regulation Police—3½ in., large barrel, nickel plated
F2360—½ doz. in box Doz. $2.25

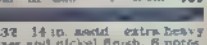


Auto Triple Cylinder—3½ in., extra loud choral call, 15 in. chain with button ring
F2362—½ doz. in box Doz. $4.50

METAL FLUTES



F2331—5 in., assd. pat. red and natural finish, 6 notes, shaped wood mouthpiece. Assd. 2 doz. in box Doz. 48c



F2332—14 in. assd. extra heavy brass and nickel finish, 8 notes, wood mouthpiece 1 doz. in box Doz. 96c

F2288—Calliope, 7½ in., assd. color grained wood bell and metal pipes, can be played by trap drummers 1 doz. in box Doz. 96c

JAP SHELL TRUMPET ASSORTMENT

F2370—3½x3¼ in., polished shell wood mouthpiece, strong reed, worsted and shell decoration. Assd. 3 doz. in box. Doz. 35c

BLANK CARTRIDGES

Loaded with a special grade of black powder, giving the loudest report
1K9216—Per M $2.25
1K9217—32 Per M $8.24
1K9218—38 Per M $10.54

"ROSETTE" PIN WHEELS

F2609—6 colors, 2½ in., waterproof cards and 10 in. wood stick. Assd. colors. 4 doz. in box. (Total $1.56) Doz. 45c

F2613—Red, white & blue, 3½ in. heavy xylonite double pin wheel, button front, 18 in. turned wood stick. 1 doz. in box Doz. 95c

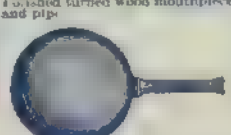
"SURE SHOT" AUTOMATIC WATER GUN

F1606—5 in. bright tin gun, 8 oz. metal body and grip, 4 inch trigger, brass barrel, nickel plated, with side sights, 2 oz. metal flask in box Doz. 96c

"BOUNCER" INFLATED RETURN RUBBER BALLS

White Rubber Ball and rubber cord. 1 doz. in box
F1633—1¼ in. Doz. $0.38
F1634—1" " .44

BAG PIPE RUBBER BALLOONS
Extra heavy red rubber balloons, inflated to large size, polished turned wood mouthpiece and pipe



F1637—40 cm. (15¾ in.) length, inflated 8 in., 4 note pipe. 2 doz. in box... Doz. 45c Gro. $5.15

F1638—50 cm. (20 in.) length, inflated 10½ in., 4 note pipe. 1 doz. in box Doz. 89c Gro. $10.20

BATTERY B AUTOMATIC MACHINE GUN

All metal, black enameled, absolutely harmless, shoots paper ammunition, operated by crank, will be a source of endless fun and amusement for the entire family
F2661 Each in litho box Each $3.50
F2663 — Ammunition for above, five rolls in pkg. Pkg. 18c

SEAMLESS RUBBER BALLOONS
Guaranteed best stock procurable and inflate to sizes given.

Dirigible or Sausage Shape—4 colors, red, yellow, green and blue
F1681—22x6 Assd. 4 doz. in pkg. (Total $1.04) Doz. 25c
F1680—24x4 Assd. 3 doz. in pkg. (Total .96) Doz. 32c

Round, Solid Colors—Yellow, blue, red and gray
F1630—35 cm. (13¾ in.) Assd. ½ gro. in pkg. Gro. $1.25
F1631—40 cm. (15¾ in.) Assd. ½ doz. in pkg. Doz. 28c Gro. lots $3.15
F1632—60 cm. (24 in.) Assd. ½ doz. in pkg. Doz. 38c Gro. lots $4.30
F1633—70 cm. (28 in.) Assd. ½ doz. in pkg. Doz. 38c Gro. lots $4.35

Round Combination Colors
Red & white, 14 in., all white and blue & white, 14 in., assd. 2 doz. in pkg. Doz. 27c Gro. lots $3.00
F1638—50 cm. (20 in.) Assd. 2 doz. in pkg. Doz. 36c Gro. lots $4.10
F1639—70 cm. (28 in.) Assd. 2 doz. in pkg. Doz. 41c Gro. lots $4.65

Spirit of '76—Assd. colors, with stenciled pictures. Assd. 1 doz. in pkg
F1650—22x3¼ Doz. 45c Gro. $5.15

SEAMLESS RUBBER VALVE BALLOONS

Round, Assd. colors, new pat. Assd. 1 doz. in pkg
F1629—60 cm. Gro. $4.85 Doz. 42c

"Dirigible"—Red, when thrown in air darts about like air ship. 1 doz. in env.
F1643—31x4 Doz. 45c Gro. $5.15

Watermelon—Green, stenciled watermelon design. 1 doz. in pkg.
F1683—22x5 Doz. 45c Gro. $5.15

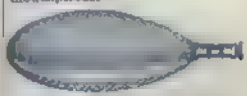
STENCILED ROUND SEAMLESS RUBBER VALVE BALLOONS

Round, National—Red and white, 2 styles stenciled, Uncle Sam and Miss Liberty and flag. Assd. 1 doz. in pkg
F1647—9 cm. (28 in.) Gro. $5.15 Doz. 45c

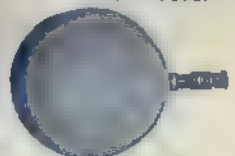
Round, Army and Navy—4 colors, white, rubber, soldier and sailor and flag stenciled in color, with American flag in colors. 1 doz. in env.
F1677—70 cm. (28 in.) Gro. $5.15 Doz. 45c

Round, Nursery—5 color combinations, when inflated shows one of 3 pictures of Mother Goose, Humpty Dumpty and Woman in Shoe, etc. Assd. 1 doz. in pkg
F1649—70 cm. (28 in.) Gro. $5.15 Doz. 45c

SEAMLESS RUBBER WHISTLING BALLOONS
Strictly first-class fresh stock guaranteed, turned wood mouthpieces.

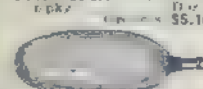


Airship Squawker—8x, assd. colors, red, blue, green and yellow
F1648—Assd. 6 doz. in box Doz. 22c Gro. lots $2.60
F1678—20x3 Assd. 3 doz. in box Doz. 37c Gro. lots $4.25



Round, assd. colors, blue, yellow, red and gray
F1[illegible] 16 in. Assd. 1 doz. in pkg Doz. 37c Gro. lots $4.25

Round—2 colors, red & white, red & yellow, red & silver, blue & silver, blue & white, blue & yellow
F1[illegible] 40 cm. (15 in.) Assd. 3 doz. in pkg Doz. 41c Gro. lots $4.75
F1[illegible] 50 cm. (20 in.) 1 doz. in pkg Doz. 45c Gro. lots $5.10



Horn Pipe Balloon—Extra large size, assd. colors
F1655—Assd. 1 doz. in pkg. Doz. 92c

TWO OF THE MANY USES OF MYERS SELF-OILING BULLDOZER POWER PUMPS

SELF-OILING

At work on road and highway building, delivering water from two to three miles in either direction. A great saving in time and expense.

Power pump business in many localities is being rapidly taken over by dealers who have been quick to realize the importance of the improvements in the construction of Myers Self-Oiling Bulldozer Power Pumps and Working Heads.

And what is most significant—wherever these pumps are sold it soon becomes difficult to convince prospective power pump purchasers that another type of pump is just as good. This is but natural, for we have yet to hear of anyone who is particularly fond of oiling a power pump two or three times daily.

Consequently, when the comparison is made between the Myers Self-Oiling Power Pumps and the older types of pumps and the self-oiling and other practical features are mentioned, the decision is invariably in favor of the Myers. And there have been so many decisions of this kind made ever since the first Myers Self-Oiling Pump put in its appearance, that our power pump department with its enormous production has been taxed to the limit at all times.

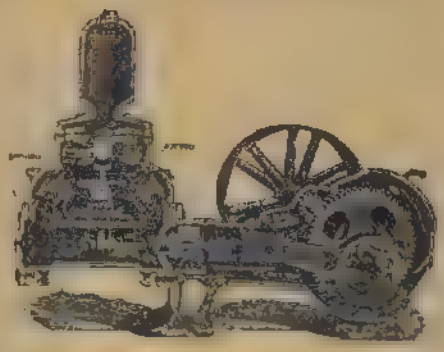
As a dealer it will pay you to "jump aboard the band wagon" and get your share of the business, for Myers Self-Oiling Bulldozer Power Pumps and Working Heads are practical, and because of their economical, safe and dependable operation have found instant favor with users everywhere.

As used for irrigating general farm truck with the Skinner irrigation system.

See following pages for general information.

MYERS SELF-OILING BULLDOZER POWER PUMPS
FOR GENERAL SERVICE
FIGURE 1866

Self Oiling **Fully Enclosed** **Removable Bearings Marked "A"** **Back Geared 5 to 1**
Double Acting Horizontal **100-lbs. Pressure,** **225-ft. Elevation.**



Sectional View, Showing all Parts, Including Oiling System. Large Valves and Direct Waterway.

Fig. 1866, The Myers Self-Oiling Bulldozer Power Pump, is a single cylinder, double-acting power pump for general service on farms, plantations, country estates, in apartment houses, hotels, mills, factories, railways, tanks, stations or wherever from 500 to 1,000 gallons of water per hour are required against 100 lbs. pressure or 225 ft. elevation. This design has been brought out to meet the general needs of the trade for an efficient, durable pump of modern construction at a moderate price.

The power end consists of a one-piece casting which forms the base of the pump and oil reservoir, and in connection with a lid encloses all working parts, protecting them from dirt or injury, and securing safety of operation. This casting is completely machined at one setting for all bearings, the crosshead cylinder head and shaft bearings, insuring alignment of all working parts. The pinion and gear are mounted between double bearings. All these bearings are renewable. Both gear and pinion are machine cut from the solid, the gear is cast iron and the pinion steel. An eccentric cast integral with the main gear operates the crosshead through a connecting rod which is adjustable for wear at the eccentric end and is fitted with a renewable bronze bushing at the crosshead end. The crosshead is of large diameter running in a bored guide. From the oil reservoir in the base oil is carried by the main gear to the highest parts of the pump and by a system of channels distributed to all moving parts and returned again to the reservoir. This system of forced lubrication contributes quiet operation and long life with a minimum of attention.

The cylinder, which is brass lined, is a one piece casting, attached to the power end by heavy bolts. Large poppet valves on bronze grid seats are all located above the cylinder insulating jacketing. Suction and discharge valves are easily accessible for inspection and repair without disturbing pipe connections. Suction and discharge piping may be taken from either side.

As compared with older designs this pump has larger valves, more liberal and direct waterways, and a positive oiling system, enabling it to be operated against a heavy pressure or at high speed, securing large volume and high efficiency.

Maximum capacity 500 gals. per hour at 70 RPM. Usual speed 60 to 65 RPM.

No. 612 Myers Self Oiling Bulldozer Power Pump with vacuum Chamber, 2½x3 in. Brass lined cylinder, 12x2 in. Tight and loose pulleys ⅛-in. Brass piston rod, suction and discharge 1¼-in. **Each** .....

Maximum capacity 1000 gals. per hour at 70 RPM. Usual speed 55 to 60 RPM.

No. 613 Myers Self Oiling Bulldozer Power Pump with vacuum chamber, 3x4 in. Brass lined cylinder, 14x2½-in. Tight and loose pulleys, ⅝-in. Brass piston rod, suction and discharge 1½-in. **Each** .....

Maximum capacity 2000 gals. per hour at 65 RPM. Usual speed 50 to 55 RPM.

No. 614— Myers Self-Oiling Bulldozer Power Pump with vacuum chamber, 4x5 in. Brass lined cylinder, 16x4-in. Tight and loose pulleys, 1⅛-in. Brass covered piston rod, suction and discharge 2-inch. **Each** .....

Maximum capacity 3000 gals. per hour at 60 RPM. Usual speed 45 to 50 RPM.

No. 615— Myers Self-Oiling Bulldozer Power Pump with vacuum chamber, 5x6 in. Brass lined cylinder, 16x4 in. Tight and loose pulleys, 1⅛-in. Brass covered piston rod, suction and discharge 2½-inch. **Each** .....

Maximum capacity 4500 gals. per hour at 52 RPM. Usual speed 40 to 45 RPM.

No. 616 Myers Self Oiling Bulldozer Power Pump with vacuum chamber, 6x6 in. Brass lined cylinder, 24x4-in. Tight and loose pulleys, suction and discharge 3-inch. **Each** .....

Air intake valve for pneumatic use on any of the above pumps add to list .....

MYERS SELF-OILING BULLDOZER POWER PUMPS

MOTOR AND ENGINE DRIVE FOR GENERAL SERVICE

FIGURE 1849

Fig. 1849, Myers Self-Oiling Bulldozer Power Pump equipped with belt tightener to be used with motor or engine.

Back Geared 5 to 1. Self-Oiling.

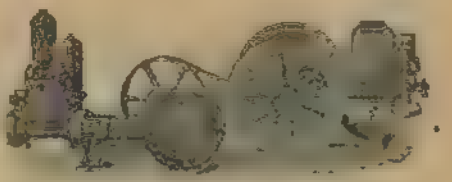
Motor, Engine, Belt and Plank Base not Included

No. 612ME—2½x3 pump, with 15x2½ pulley and belt tightener	**Each**
No. 613ME—3x4 pump, with 20x3 pulley and belt tightener	**"**
No. 614ME—4x5 pump, with 24x4 pulley and belt tightener	**"**
No. 615ME—5x6 pump, with 24x4 pulley and belt tightener	**"**
No. 616ME—6x6 pump, with 24x4 pulley and belt tightener	**"**

ENGINE DRIVE

FIGURE 1853

Fig. 1853, Myers Self-Oiling Bulldozer Power Pump with belt tightener as used for gas engine. The belt tightener can be used on either side of pump pulley. Note small space occupied.



MYERS HIGH PRESSURE SELF-OILING BULLDOZER POWER PUMPS

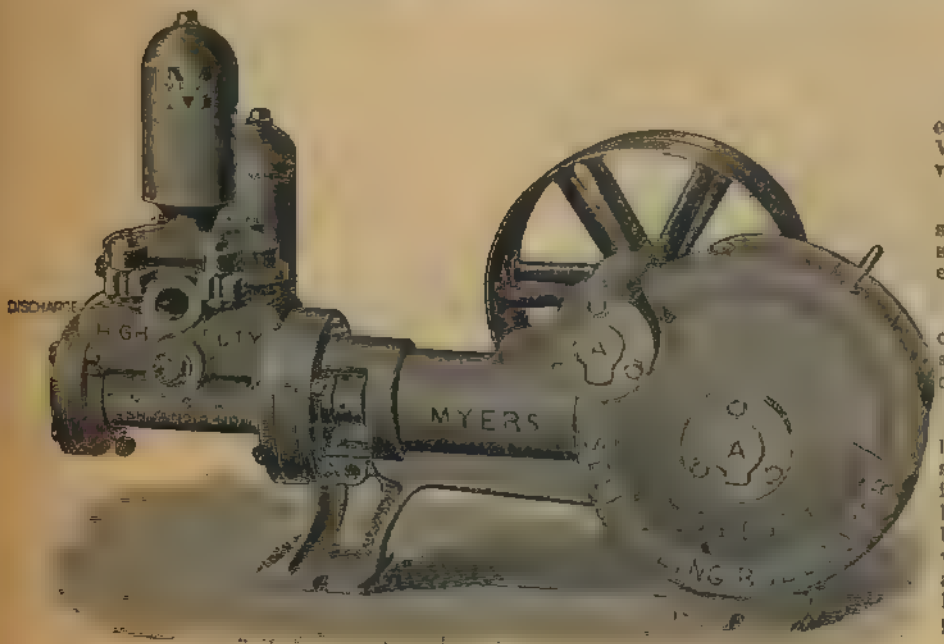


FIGURE 1929

Self-Oiling, Fully Enclosed, Back Geared 5 to 1. For Pumping Oil, Hot or Cold Water. 200 lbs. Pressure or 450 Feet Elevation.

Fig. 1929 illustrates the Myers High Pressure Self-Oiling Bulldozer Power Pump for service against 200 lbs. pressure or 450 feet elevation

The power end is the same as used with our standard line of Self-Oiling Pumps with all working parts enclosed and running in oil. Renewable bearings.

The cylinder is a one-piece casting, brass lined and fitted with bronze valves on bronze seats, all accessible for inspection by removing air chamber and without disturbing pipe lines. The piston is packed with double cup leathers (Canvas packing used for hot water) supported by heavy castings. Suction and discharge may be taken from either side. Brass covered piston rod. Adapted for high pressure pumping or boiler feed service.

Maximum capacity 1100 gallons per hour at 60 R.P.M. Usual Speed 45 to 55 R.P.M.

No. 633— Myers High Pressure Self-Oiling Bulldozer Power Pump with vacuum chamber, 3x5-inch brass lined cylinder, 16x4-inch tight and loose pulleys, brass covered piston rod, suction and discharge 1½-inch. **Each** .....

No. 633ME—3x5-inch High Pressure Pump, with 24x4-inch pulley and belt tightener. See Fig. 1849 or 1853 **Each** .....

Maximum Capacity 1000 Gallons Per Hour at 50 R.P.M. Usual Speed 40 to 45 R.P.M.

No. 634— Myers High Pressure Self-Oiling Bulldozer Power Pump, with vacuum chamber, 4x6 inch brass lined cylinder, 24x4-inch tight and loose pulleys, brass covered piston rod, suction and discharge 2-inch **Each** .....

No. 634ME—4x6-inch High Pressure Pump, with 30x4-inch pulley and belt tightener. See Fig. 1849 or 1853..... **Each** .....

MYERS SELF-OILING BULLDOZER POWER PUMPS

MOTOR AND ENGINE DRIVE FOR PNEUMATIC PRESSURE TANK SERVICE

FIGURE 1860

Self-Oiling. Fully Enclosed. Back Geared 5 to 1. 100-lb. Pressure.

Maximum capacity 500 gallons per hour at 70 R.P.M.
Usual speed 60 to 65 R.P.M.

No. 612A— Myers Self Oiling Bulldozer Power Pump, with air intake valve for pneumatic pressure tank service with vacuum chamber, 2½x3-inch brass lined cylinder, 12x2-inch tight and loose pulleys, ½-inch brass piston rod, suction and discharge 1¼-inch. Each .....

Maximum capacity 1000 gallons per hour at 70 R.P.M.
Usual speed 55 to 60 R.P.M.

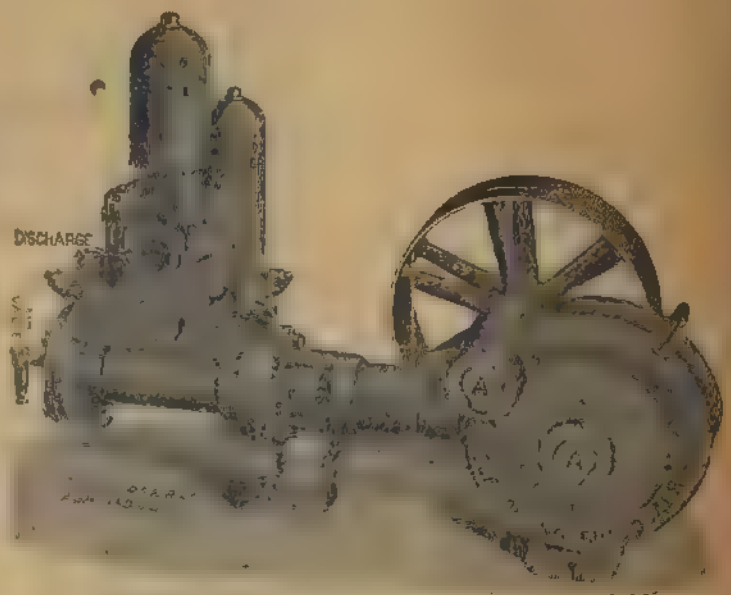
No. 613A— Myers Self-Oiling Bulldozer Power Pump, with air intake valve for pneumatic pressure tank service with vacuum chamber, 3x4-inch brass lined cylinder, 14x2½-inch tight and loose pulleys, ⅝-inch brass piston rod, suction and discharge 1½-inch. Each .....

Maximum capacity 2000 gallons per hour at 65 R.P.M.
Usual speed 50 to 55 R.P.M.

No. 614A— Myers Self-Oiling Bulldozer Power Pump, with air intake valve for pneumatic pressure tank service with vacuum chamber, 4x5-inch brass lined cylinder, 18x3-inch tight and loose pulleys, 1⅛-inch brass covered piston rod, suction and discharge 2-inch. Each .....

Maximum capacity 3000 gallons per hour at 60 R.P.M.
Usual speed 45 to 50 R.P.M.

No. 615A— Myers Self-Oiling Bulldozer Power Pump, with air intake valve for pneumatic pressure tank service with vacuum chamber, 5x6-inch brass lined cylinder, 24x4-inch tight and loose pulleys, 1⅜-inch brass covered piston rod, suction and discharge 2½-inch. Each .....



Maximum capacity 4500 gallons per hour at 52 R.P.M.
Usual speed 40 to 45 R.P.M.

No. 616A— Myers Self-Oiling Bulldozer Power Pump, with air intake valve for pneumatic pressure tank service with vacuum chamber, 6x7-inch brass lined cylinder, 24x4-inch tight and loose pulleys, suction and discharge 3-inch. Each .....

MOTOR AND ENGINE DRIVE FOR PRESSURE TANK WORK

FIGURE 1850

Back geared 5 to 1. Self-oiling for general service.

Fig. 1850 illustrates the Myers Self-Oiling Pneumatic Bulldozer Power Pump with vacuum chamber and belt tightener connected to motor.

Motor, Belt and Plank Base Not Included. Prices on Motor and Belt on Application.

No. 612AM— 2½x3-inch Pump, 12x2-inch Pulley, belt tightener and air valve. Each .....

No. 613AM— 3x4-inch Pump, 20x3-inch Pulley, belt tightener and air valve. Each .....

No. 614AM— 4x5-inch Pump, 26x4-inch Pulley, belt tightener and air valve. Each .....

No. 615AM— 5x6-inch Pump, 24x4-inch Pulley, belt tightener and air valve. Each .....

No. 616AM— 6x7-inch Pump, 24x4-inch Pulley, belt tightener and air valve. Each .....

Plank not Furnished

FIGURE 1854

Fig. 1854 illustrates the Myers Self-Oiling Pneumatic Bulldozer Power Pump with belt tightener as used with gas engine. The belt tightener can be used on either side of pump pulley. Note small space required.

GAS LIGHTING TAPERS

Per Dozen Boxes

No. 310—Paraffine Wax **$2.30**
Thirty in a box, four dozen boxes in a package.

ASBESTOS SAD IRONS

TOURIST

Extra Polished, Nickel Plated Face and Flange Steel Handle Bow, Riveted on. Black Enameled Wood Handle Complete with Asbestos Covered Stand. Cover is Lined with Asbestos Wt. 1¼ Lbs. with Hood.

Per Dozen
No. 10—Wt., Per Doz., About 18¼ Lbs **$6.50**
One in a carton; one dozen in a case.

LAUNDRY SET

Consists of one Hood with Handle and Lock. Complete, Two 7-Lb. Cores One 6-lb Core (All Cores Double Pointed) and One Asbestos Covered Stand

Per Doz. Sets
No. 70 **$46.00**
One set in a box, quarter dozen or half dozen boxes in a case.

LAUNDRY SET

Consists of One Hood with Handle and Lock Complete, Two 7-Lb Double Pointed Cores, One 7-Lb. Square Heel Core and One Asbestos Covered Stand. Per Doz. Sets
No. 100 . . . . **$58.00**
One set in a box. Quarter dozen boxes in a case.

STANDS

Planished Steel. Asbestos Covered. 5½ Ins. Square

Per Dozen
No. 73—Wt., Per Doz., About 3¾ Lbs. **$3.00**
Loose.

HOODS

Polished Nickel Plated Cast Iron Asbestos Lined Steel Bow. Bolted Black Enameled Wood Handle Double Pointed for No 72, 100 and 82 Cores, or Sets Nos. 70 and 100 Wt., Per Case, 30 Lbs Per Dozen
No. 71 . . . **$18.00**
No. 61 . . . **12.00**
One in a carton. Six in a case

ELECTRIC SAD IRONS

Nickel Plated Base and Hood. Ebonized Handle. Indestructible Plug. Complete with Reversible Heat-proof Spring Stand and Six Feet of Heater Cord.

No. E901

580 WATTS
Each
No. E901 $7.50 **$10.20**
Weight, 6 pounds.

No. E902

580 WATTS
Has Tip-Up Feature.
Each
No. E902 $6.35 **$8.00**
Weight, 6 pounds.

580 WATTS
Each
No. E905 . . . $6.35 **$8.65**
Weight, 6 pounds.

No. E905

350 WATTS
Has Space in End for Heating Iron Can be Reversed and Used as a Small Stove Complete with Velvet Bag.
Each
No. E9021 . . . . . **$6.10**
Weight, 3 pounds

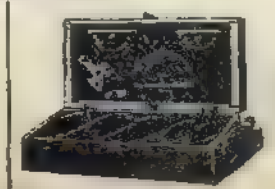
No. E9021

One in a carton crated in lots of 6 and 12.

FAMILY SAD IRON OUTFITS

ENTERPRISE

COLD HANDLE
Contains Set of Three No. E050 Irons.
Per Set
No. 82 . . . . . **$3.90**



COLD HANDLE
Contains Set of Three No. E050 Irons, One No. 82 Nickel Plated Chinese Polishing Iron, and One No. E90 Girls' Iron with Handles
Per Set
No. 330 . . . . . **$14.50**

Half dozen outfits in a case.

SAD IRONS

LAUNDRY SETS

DOVER

Hood is Nickel plated. Cores Highly Polished Simple Lock Firmly Attaches the Hood to Iron, Preventing Rattle Lock is Made Entirely of Pressed Steel Hood, by Forming an Insulating Layer of Dead Air Space, Prevents Radiation of Heat from Sides and Top of Core. Handle is Always Cool. Asbestos Covered Stand Furnished with Each Set.

Per Dozen Sets

No. 60—Irons Weigh 4½ Lbs. Each, with Hood Attached. **$30.00**

One set in a carton; three cartons in a case.

ENTERPRISE

COLD HANDLE, DOUBLE POINTED

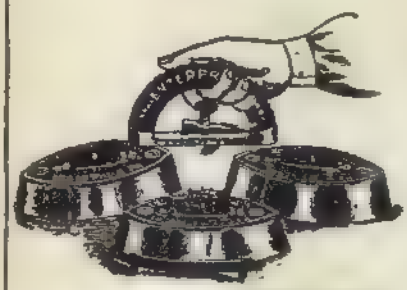
New Solid Top

Nickel Plated and Full Weight is Cast on Each Iron Cross Bars of Steel Handles Highly Polished and Will Not Split or Break. Three Irons, One Handle and Stand Constitute a Set. No. 1, with One End Rounded for Polishing, Weighs 4 Lbs.; No 2 for General Use, Weighs 5 Lbs.; No. 3, for Heavy Work, Weighs 6 Lbs

Per Set

No. E92—With "Best" Handle and Stand. **$4.50**

Tied one set in a package, six sets in a case.



A Set Consists of Three Double Pointed Irons. One Detachable Handle and Cast Iron Stand. The Irons Have Convexed Ground Surface. One Polishing Iron, One Iron for General Work and One Iron for Heavy Work. Flat Steel Lock Spring and Walnut Grip.

Genuine Mrs. Potts (Enterprise)

With Enterprise "Best" Detachable Handle.

Plain Polished

Per Set

No. E 55—Japanned Cap and Stretcher . . . **$4.25**
No. E055—Tinned Cap and Stretcher . . **4.35**

Nickel Plated

No. E 50—Japanned Cap and Stretcher . . **$4.00**
No. E050—Tinned Cap and Stretcher . . . **4.10**

Mrs. Potts Pattern (C. Brand)

Plain Polished

Per Set

No. C 55—Japanned Cap and Stretcher
No. C055—Tinned Cap and Stretcher . . .

Nickel Plated

No. C 50—Japanned Cap and Stretcher . . .
No. C050 Tinned Cap and Stretcher . . . . .

Prices on Request

Tied in sets of sixsets. Loose in case.

ELECTRIC IRONS

DOMESTIC

Heavily Nickel Plated and Highly Polished. Six-Foot Double Cord with Detachable Plug and Benjamin Swivel Socket Plug. Double Deck Safety Stand. Separable Heating Unit. Comfortable and Cool Handle. Base 6½ x 4½

Each

No. D325—Wt. 6 Lbs. **$1.35**

Case of six

TAILORS' GEESE

POLISHED BASE

No. 20—Open Handles	No. 22—Closed Handles				
Wt., Lbs.	12	14	16	18	20
Per Lb.			$ .24		

Loose

IRONS

SALAMANDER

Set Consists of Three Heaters, One Lifter and a Stand. Polished Base and Sides, Alu[illegible] Trim. Japanned Heat Shield. Varnished Hardwood Handle

Per Dozen Sets

No. 700—Size About 3¼ x 6 Ins. **$37.00**

Loose

PRESSING

No. 66—Polished. Pointed. Size	A	B	C	D
Wt., Lbs.	12	14	16	18
Per Lb		$ .22		

Loose

COMMON

No. 01

POLISHED FACE

No. 010—Polished Cast Iron Base.

Wt., Lbs.	4	5	6	7	8	9
Per Lb.	$ .22	.20		.19		

Note—2 and 3 lbs. Can be Used as Toy Iron. Loose About 600 lbs. to a Barrel

SAD IRON STANDS

Copper Bronzed Iron. Size, 6 x 4½ Ins

Per Dozen

No. 70 . . **$1.60**

SAD IRON HANDLES

UNIVERSAL

Fits All Pott's Pattern Sad Irons. Steel Base. Hardwood
Enameled Black Steel Base. Hardwood

Per Dozen

No. 31 ..... **$4.00**

Half dozen in a package

"THE BEST" ENTERPRISE

Walnut. Tinned Forged Iron Stretcher. Length, 6 Ins

Per Dozen

No. 100 ..... **$6.65**

One dozen in a package.

Position When in Use.

Position When Not in Use

"THE BEST" ENTERPRISE COMBINATION

Per Dozen

No. 200—With Wire Side Rest **$8.30**

Half dozen in a package.

Nos. 501, 502

HAZEL

Hazelwood. Nicely Varnished. Iron Stretcher. Length, 5¾ Ins.

Per Dozen

No. 501—Tinned **$4.80**

No. 502—Japanned. **$3.90**

HOLDFAST

Hardwood Handle. Varnished, Japanned Stretcher. Length, 5½ Ins.

Per Dozen

No. 503 ..... **$2.50**

Quarter dozen in a package.

HAND FLUTERS

CROWN

Furnished with Stops at Each End of Plate to Prevent Roll Running Off and Tearing Goods. Heating Irons are Laid in a Recess of the Base, Under the Plate. Two Irons are Furnished with Each Fluter and a Lifter to Handle Them.

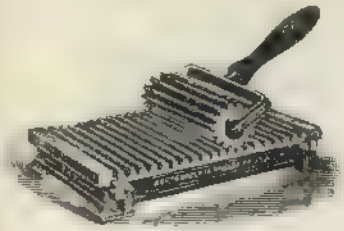


Plate Hinged to the Base, and it Does Not Need to be Lifted Off and Laid Aside to Renew Heating Irons.

Nickel Plated

Per Dozen

No. 2 — Wood Handle. Plate, 7 x 3¼ Inches. 1¼-Inch Roll. Weight, Per Dozen, About 80 Pounds . . . **$40.00**

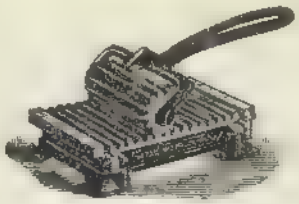


Plate Hinged to the Base, and It Does Not Need to be Lifted Off and Laid Aside to Renew Heating Irons.

Nickel Plated

Per Dozen

No. 3 — Malleable Iron Handle. Plate, 7½ x 3 Inches. 1¾-Inch Roll. Weight, Per Dozen, About 60 Pounds . . . **$32.50**

One dozen in a case.

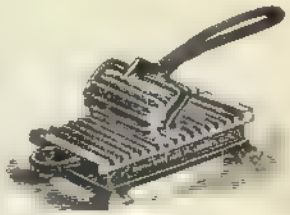


Plate and Heater are in One Piece Which is Heated by Simply Placing on the Stove and When Hot Putting Back on the Base

Polished

Per Dozen

No. 4— Malleable Iron Handle. Plate, 5½ x 3 Inches. 1¾-Inch Roll. Weight, Per Dozen, About 43 Pounds . . . **$ 7.00**

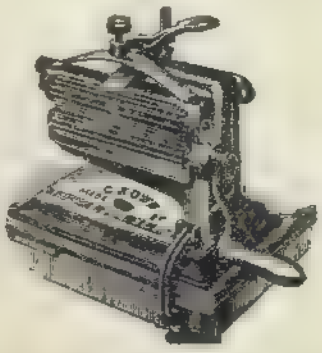
FLUTING MACHINES

CROWN

Hinged Swivel Clamp. Roll Adjusting Lever with Stop and Set Screw. Flat Steel Pressure Spring.

AMERICAN

Hinged Swivel Clamp, with Platform to Enable Operator to Guide Material. Malleable Iron Roll Adjusting Lever with Spiral Steel Spring



Japanned Cast Iron Frame and Base. Malleable Iron Crank. Wood Handle. Two Fluted, Hollow Cast Brass Rolls. Four Solid Wrought Iron Heaters.

Base, 8¾ x 5¼ Inches. Height, 8¼ Inches. Four Wrought Iron Heaters, 5 x ¾ Inches. One Pair 11-Inch Tongs. Weight, 13 Pounds.

	4½-Inch Rolls Each	6-Inch Rolls Each
No. 1—With Either 12, 15, 18, 22, 26, 30, 40, 50 Flutes	**$9.00**	**$12.00**

Base, 8¾ x 5¼ Inches. Height, 6 Inches. Four Wrought Iron Heaters, 5 x ⅞ Inch. One 10-Inch Lifter. Weight, 11 Pounds.

	5-Inch Rolls Each	6-Inch Rolls Each
No. 10—With Either 10, 12, 15, 18, 22, 26, 30, 40, 50 Flutes	**$8.50**	**$9.80**

One in a box.

"BETTY" DRESSED DOLLS

Well dressed dolls, [illegible] bisque heads, hands and feet, jointed body and limbs, human hair wigs [illegible] and shoulder [illegible]

F7438—8 styles, 14 in., mohair wig, [illegible] color [illegible] and dresses, [illegible] French and novelty modes, lace trimmings, [illegible] each white socks and slippers. Asstd. ½ doz. in pkg. Doz. **$10.25**

F7434 2 styles, 15½ in., [illegible] and [illegible] trim collars, lace-edged solid color [illegible] and slippers. Asstd. ½ doz. in pkg. Each, **$1.35**

F7431—3 styles, 15½ in., [illegible] wigs, [illegible] and [illegible] solid color and lace trimmed [illegible] white socks and slippers. Asstd. ½ doz. in pkg. Each **$1.35**

F7432 3 styles, 17 in., [illegible] and [illegible] gingham plaid, solid color and [illegible] and [illegible] underwear, white socks and slippers. Asstd. 2 in pkg. [illegible] Each **$2.00**

F7437—2 styles, 17 in., [illegible] [illegible] hat, [illegible] and powder style [illegible] trim, lace trimmed underwear, white socks and slippers. Asstd. 2 in pkg. [illegible] Each **$2.00**

F7435 2 styles, 17 in., [illegible] [illegible] and [illegible] [illegible] and [illegible] [illegible] and

POPULAR CASE LOT

PACKING Each assortment is in a new wood case, made up under our personal supervision. Every doll is clean and fresh, no stock accumulation

Retailing from

These assortments are figured on past sales records.

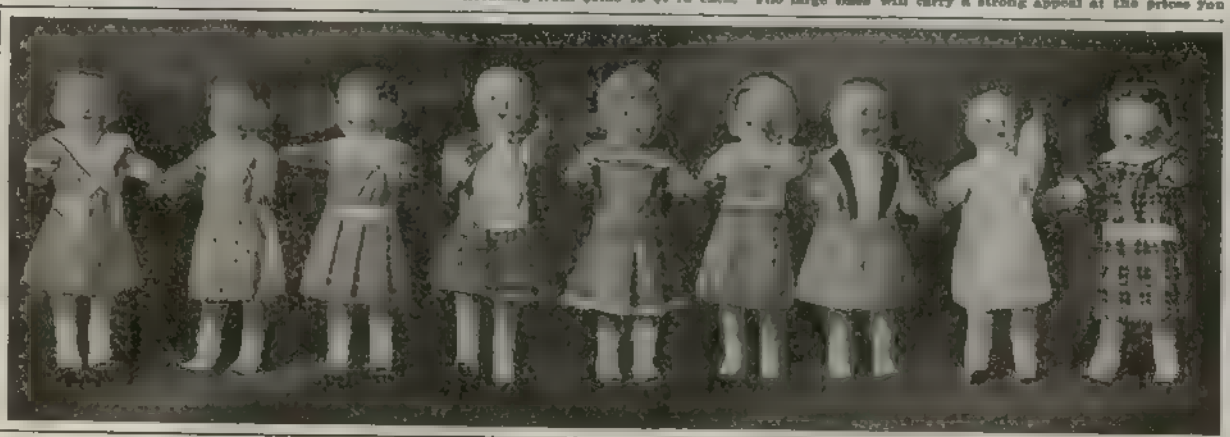
25 STYLES Americas "Big Variety" Doll Assortment 78 DOLLS

Retailing from 29c to $2.00 each. The big variety gives you an excellent showing

F7997— 10½x14½ in. babies in long and short slips, romper styles, attic girl, novelty sailor boy and girl soldier dolls, character composition heads, washable painted features and hair, some with bobbed mohair wigs, composition hands except smallest size, well made stuffed bodies, shoulder and hip joints, babies with position limbs, short or long lace trimmed slips, lace trim caps, attic girls with juvenile dresses of flowered lawns, checked ginghams and solid color linens, madrases etc., lace and contrasting trims, larger dolls with buckle slippers and white stockings, some with hats all with underwear Larger sizes each in box 78 dolls in asst. Each asst. in wood case (Suggested retail value for asst. $45.00. ASST. (78 dolls), **$31.00**

18 STYLES "MAMMOTH VALUE"

Retailing from $1.50 to $1.75 each. The large sizes will carry a strong appeal at the prices you



F7999— 17 in., 18 styles, assorted characters, excellent models, large composition heads and hands, stuffed bodies, hip and madras, lace embroidery and novelty braid trim bolero shirt waist and middy effects, some with hats, lawn under (Suggested retail value for asst. $60.00.)

1920 DOLL ASSTS.

29c to $2.00 Each

Assuring you of quick turnover and even disposal.

PRICES We merely suggest retail prices The values shown will really bring more if you choose You can make a profit of 40% or more on cost.

28 STYLES "Special" Girl and Baby Doll Assortment 36 DOLLS

Retailing from $1.00 to $2.00 each The demand will be heavy Stock liberally

F7998—13½ to 17 in., asstd. characters, composition heads and hands, stuffed bodies, hip and shoulder joints, babies in long and short slips, lace trim caps, some girl dolls with mohair wigs, fabric or ribbon trim straw hats, playtime, outing and party dresses of flowered lawns, check and plaid ginghams, mull over colored slips, French voiles, organdies, etc ribbon, embroidery and lace trimmings, slippers and stockings, lace trim underwear Three of our popular 'Baby Betty' dolls in each asst. Each doll in box, 36 dolls in asst. Each asst in wood case. (Suggested retail value for asst. $48.00.)

ASST (36 dolls), **$33.00**

DOLL ASSORTMENT 36 DOLLS

as game if you buy this assortment. Comparison will prove that it is hard to duplicate this offer

shoulder joints, attractive girl and baby dresses, plain, flowered, figured, striped and novelty percale, lawn, wear, shoes and stockings. Each doll in box 36 dolls in assortment Each assortment in wood case

ASST. (36 dolls), **$40.00**

BABY DOLLS

Dressed and ready for dressing. In a wide variety of prices to meet every demand. The [illegible] cook the fact that there is a big demand for Baby Dolls. Last year's enormous sales prov[illegible]

POPULAR PRICED DOLLS

STAR VALUE

F 520 [illegible] in., short white lawn slip, lace bound neck, lace trim sleeves, white lawn ruche edge cam. ribbon ties, panties. Doz. **$5.00**

F7521 [illegible] in., white lawn slip, bound neck lace trim sleeves, white lawn ruche edge cam. ribbon ties, panties. ½ doz. in box. Doz. $5.50

Save Money Buy Your Needs Here

STAR VALUE

F7523 [illegible] in., short white lawn slip, lace trim neck, yoke and sleeves, ruche [illegible]. **$9.00**

F 523 [illegible] in., white lawn slip, lace trim yoke, neck, sleeves and [illegible]. Doz. $9.50

Our Styles And Prices Are Right

Extra Large [illegible] in. stock[illegible], large head, open mouth, fine [illegible], short dress, lace trim neck, [illegible] and bonnet, fine ruche [illegible] ruche trim white lawn cap, [illegible] pacifier on ribbon panties, white socks. ½ doz. in box. [illegible]

F7510—Painted hair [illegible] 90
[illegible] Mohair wig 1.75

"IDEAL" SLEEPING BABY DOLLS

Fast selling numbers. Eyes are made by patent device guaranteed to work properly. Composition heads and hands, flesh finish painted features, excellent baby expression, painted hair, well stuffed bodies, hip and shoulder joints.

F7524 13 in., short white lawn slip, lace trim neck, yoke, sleeves and bottom of skirt, wide lace ruffle on [illegible] white socks, each in box. ½ doz. in pkg. Doz. $12.00

F7525—13 in., short white lawn slip, lace trim neck, yoke, sleeves and bottom of skirt, wide lace ruffle on [illegible] string, white socks, each in box. 6 in pkg. Each $1.39

F7526—14 in. long white lawn slip, lace trim neck sleeves and bottom of skirt, [illegible] strings, underskirt and panties, pacifier on string [illegible] box. Each, $2.05

"ACME" BABY DOLLS In Short Slips

Well crafted chubby babies, composition heads, shoulder joints, position limbs, [illegible]

[illegible] 3 styles, 15 in., painted hair, [illegible] Each $1.85

F7529—17 in., excellent baby expression, mohair wig, fine [illegible] Each $2.25

Extra Large [illegible] in., [illegible] Painted hair Each $2.50
F7531 Mohair wig Each $3.25

"EFFANBEE" DOLLY DUMPLINGS

F7658 3 styles, painted hair little girl and romper styles flowered novelty voile and checked gingham dresses, short skirts, full [illegible] panties, romper style with brief, elastic knees. Assrd. 3 in pkg. Each, $1.36

F7659 Baby, painted hair, white lawn, short baby dress, lace trim square neck, sleeves and bottom, [illegible] 1 in box. Each, $1.35

F7661 Baby, mohair wig, white lawn dress, lace trim [illegible] sleeves and bottom, [illegible] 1 in box. Each $1.75

F7660 2 styles, mohair wigs, solid [illegible] dress, lace trim [illegible] neck, [illegible] sleeves, [illegible] square neck and sleeves, elastic knees, [illegible] back to match, assrd. 2 in pkg. Each $1.75

"DOLLY DUMPLING" GIRLS

Attractive and appealing dolls made by one of the best doll makers in America

F7315 2 styles, 15½ in., solid color and fancy lawn dresses, lace trim [illegible] sleeves, [illegible] white stockings, [illegible] jute cloth box. Assrd. 2 pkg. Each Two in Carton. Total $2.65

F7316—15½ in., sleeping eyes, [illegible] dress, [illegible] sleeves and [illegible] panties, lace stockings and [illegible] 1 in box. $2.65

"BABY BETTY" DOLLS DISTRIBUTED EXCLUSIVELY BY BUTLER BROTHERS

No better dolls on the market at the prices. Lifelike expression

Composition breast plate heads and hands, painted features and hair, well cork stuffed bodies, position limbs, hip and shoulder joints.

F7662—3 styles, 13½ in., solid color [illegible] dress, [illegible] neck, sleeves and [illegible] dresses, lace trim and bias [illegible] fancy lawns and checks, [illegible] white socks, each in box. Assrd. [illegible] doz. **$10.25**

F7663 2 styles, 13½ in., solid [illegible] dress, [illegible] neck and sleeves, [illegible] jacket, [illegible] back bonnets, [illegible] strings, white socks, each in box. Assrd. [illegible] doz. **$10.25**

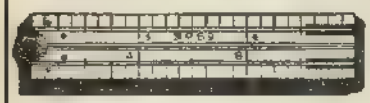
F7664—13½ in., short white [illegible] baby dress, lace [illegible] neck, sleeves and [illegible] ribbon sash, lace trimmed [illegible] lawn bonnet, ribbon strings, [illegible] white socks, each in box. [illegible] pkg. Doz. **$10.25**

BOXWOOD RULES

Selected and Seasoned Boxwood Polished Brass Trimmings

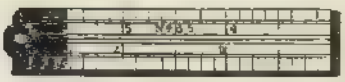
ONE FOOT. FOUR FOLD

Marked 8ths and 16ths Inch. Width, Folded, ¼ Inch



ROUND JOINT
Middle Plates.
Per Dozen
No. 69 ... **$3.15**
Wt., per doz., about ½ lb.

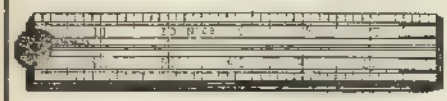
SQUARE JOINT



Per Dozen
No. 65—Middle Plates. Wt., Per Doz., About ½ Lb. ... **$3.50**

TWO FOOT. FOUR FOLD

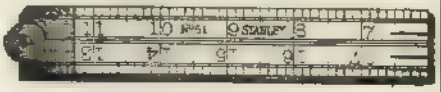
Marked 8ths and 16ths Inch. Width, Folded, 1 Inch



ROUND JOINT

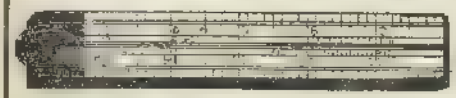
Per Dozen
No. 68—Middle Plates. Wt., Per Doz., About 1½ Lb. **$4.40**
No. 661B—Lufkin Rule Co.'s as No. 68 ..... **4.40**

SQUARE JOINT



Per Dozen
No. 61—Middle Plates. Wt., Per Doz., About 1½ Lb. **$5.35**
No. 751—Lufkin Rule Co.'s as No. 61.. ..... **5.35**

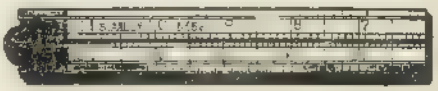
With Drafting Scale. Marked 8ths, 10ths, 12ths, and 16ths Inch. Width, Folded, 1 Inch



SQUARE JOINT

Per Dozen
No. 63—Edge Plates. Wt, Per Doz., About 1½ Lb. **$7.05**
One dozen in a box.

SQUARE JOINT

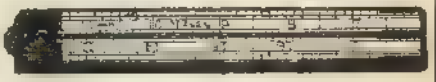


Per Dozen
No. 84—Half Brass Bound Wt., Per Doz., About 2 Lbs. **$11.50**
No. 62—Full Brass Bound Wt., Per Doz., About 2½ Lbs **14.15**

Lines and Figures Marked Black. Graduations on Both Sides

TWO FOOT. FOUR FOLD

SQUARE JOINT
WIDTH FOLDED
¾ INCH



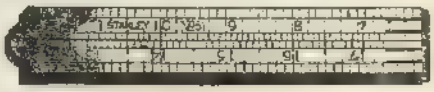
Full Brass Bound. Marked in 8ths, 10ths, 12ths and 16ths In.

Per Dozen
No. 62½—Wt., Per Doz., About 2½ Lbs..... **$14.15**

Middle Plates. Marked in 8ths and 16ths Inch

Per Dozen
No. 61½—Wt., Per Doz., About 1½ Lb..... **$5.25**
No. 62½, half dozen; No. 61½, one dozen in a box.

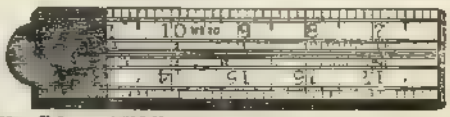
Drafting Scale. Marked 8ths, 10ths, 12ths and 16ths In.



ARCH JOINT

Per Dozen
No. 51—Middle Plates Wt, Per Doz, About 1½ Lb **$6.25**
No. 53—Edge Plates. Wt., Per Doz, About 1½ Lb **8.00**
Nos. 51 and 53, one dozen, Nos. 52 and 54, half dozen in a box.

With Drafting Scale. Width, Folded, 1¼ Inch

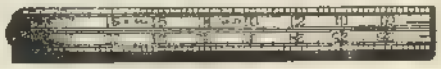


SQUARE JOINT

Per Dozen
No. 70—Middle Plates. Marked 8ths and 16ths In. **$7.05**
No. 72—Edge Plates. Marked 8ths, 10ths and 16ths In **8.80**

THREE FOOT. FOUR FOLD

Marked 8ths and 16ths Inch. Width, Folded, 1 Inch



ARCH JOINT

Per Dozen
No. 66½—With Middle Plates. Wt., Per Doz., About 2 Lbs. . **$10.60**
No. 66¾—Full Brass Bound Wt, Per Doz., 2½ Lbs. **26.70**

TWO FOOT. FOUR FOLD

Large Figures. Square Joints. Brass Middle Plates. Marked 8ths and 16ths Inch. Width, Folded, 1¼ Inch

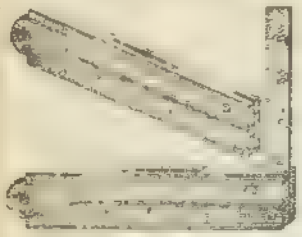
BLIND MAN'S

Per Dozen
No. 7—Stanley.... **$13.55**
No. 762B—Lufkin . . . **18.60**
Wt, Per doz., about 2 lbs

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

BOXWOOD RULES

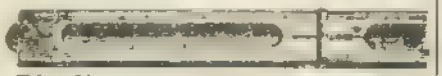
Selected Seasoned Boxwood. Polished Brass Trimmings. Lines and Figures Marked Black. Graduations on Both Sides.



COMBINATION
One Foot, Two Fold.
1⅝ In. Wide. Folded, ¾ In. Thick. Square, Brass Joint. Full Brass Bound. Marked in 10ths, 12ths, 16ths and 24ths. With Level Drafting Scale, Fitted with Level, Glass and Steel Tongue Graduated to all Angles Up to 48 Degrees. Can be Used as Carpenter's Rule, Square, Bevel, Inclinometer, Level, Plumb, Drafting Scale, and Bevel Protractor.

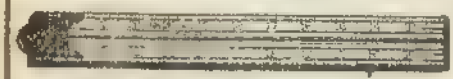
	Per Dozen
No. 036—Wt., Per Doz., About 4½ Lbs.	$55.00
One in a box. Each	5.00

ARCHITECTS'
Two Foot, Four Fold



Arch Joint. Edge Plates with Architect's Drafting Scale Marked in 10ths, 12ths and 16ths of Inches. Inside Edges Beveled Width, Folded, 1 In.

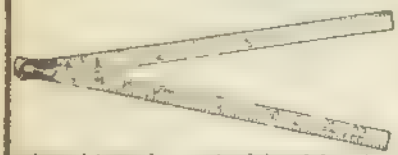
	Per Dozen
No. 53½—Wt., Per Doz., About 1½ Lb.	$14.20



CARRIAGE MAKERS'
Four Foot. Four Fold

Width Folded, 1½ In. Arch Joint. Full Brass Bound. Figures and Lines Marked in Black. Graduated in 8th and 16ths of Inches.

	Per Dozen
No. 94—Wt., Per Doz., About 5½ Lbs.	$46.45
Half dozen in a box.	

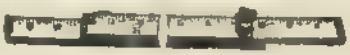


BLACKSMITHS'
Two Foot, Two Fold
Brass Spring Brass Joints, Concealed Rivet Socket Joint, which Holds Rule Rigid when Open. Graduated in 8ths on One Side and 10ths In on the Other Side. ¾ In. Wide. For Measuring Hot Metal. Can be Cooled by Plunging into Water. Will Not Rust.

	Per Dozen
No. 17—Half Dozen in a Box	$12.45

EXTENSION RULES

Selected and Seasoned Maple. Brass Tips and Clamps. Figures and Lines Marked in Black. Graduated in 16ths. In Width, 1 In.



	Per Dozen
No. 240—Extends from 2 to 4 Ft. Wt., Per Doz., About 8 Lbs.	$15.90
No. 510—Extends from 5 to 10 Ft. Wt., Per Doz., About 12 Lbs.	25.15
Half dozen in a package	

CONCEALED JOINT
Yellow Enamel Finish

Have an Extra Leg Termed an Extension Slide, Making the Rule an Inside "Caliper" with which Inside Measurements can be Easily Obtained Up to the Length of Rule Plus the Length of Extension. For Instance: Rule No. 204 would Caliper 4 Ft. 6 Ins.; No. 206, 6 Ft. 6 Ins.

	Per Dozen
No. 204—Length, 4 Ft. 8-in. Folds. 8-in. Joints. Wt., Per Doz., About 3 Lbs.	$13.15
No. 206—Length, 6 Ft. 6-in. Folds. 8-in. Joints. Wt., Per Doz., About 4 Lbs.	17.50
Half dozen in a box	

COMBINATION RULE AND LEVEL

LUFKIN BOXWOOD

Guaranteed in Every Respect. Clear Boxwood, Fitted with a Spirit Level. Joints are Unusually Strong and Durable. Graduated One Side in Inches and 8ths; Other Side in Inches and 16ths.

	Per Dozen
No. 2062—Two Foot	$19.85
Half dozen in a box.	

BOXWOOD CALIPER RULES

Graduated in 8ths, 10ths, 12ths and 16ths of Inches

6 In., Two Fold. Square Joint
¾ In. Wide.

	Per Dozen
No. 36—Wt., Per Doz., About ¾ Lb.	$8.65

One Foot, Two Fold. Square Joint
1¼ Ins. Wide.

	Per Dozen
No. 36½—Wt., Per Doz. About 2½ Lbs.	$11.55

One Foot, Four Fold. Arch Joint

1 In. Wide. Brass Edge Plates, Ends and Caliper.

	Per Dozen
No. 32—Wt., Per Doz., Abt. 1¾ Lb.	$11.15

1 In. Wide. Brass Bound. Brass Ends and Caliper.

	Per Dozen
No. 32½—Wt., Per Doz., About 2 Lbs.	$17.05

SHIP CARPENTERS' BEVELS

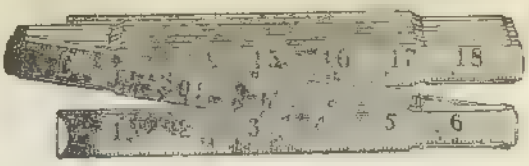
Boxwood Double Tongue

Brass Tip. One 7-in. and One 4-in. Plain Tongue. Graduated 8ths and 16ths Ins. ½-in. Wide Black Figures and Lines.

	Per Dozen
No. 42—Wt., Per Doz., About 1½ Lb.	$9.20
One dozen in a box.	

ZIG ZAG RULES

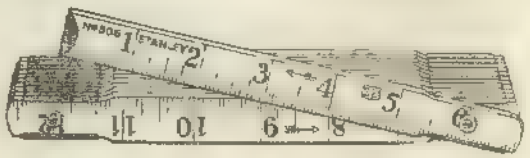
STANLEY



5/8 INCH WIDE. 6 INCH FOLDS. CONCEALED JOINT

Yellow Enamel Finish						White Enamel Finish					
Nos.	03	04	05	06	08	Nos.	103	104	105	106	108
Length, Feet	3	4	5	6	8	Length, Feet	3	4	5	6	8
Wt. Per Doz., About Lbs.	1½	2	2½	3¼	4¼	Wt., Per Doz. About Lbs.	1½	2	2½	3¼	4¼
Per Dozen	$7.85	9.40	11.75	14.10	18.80	Per Dozen	$7.50	9.95	12.45	14.90	19.90

Half dozen in a box



5/8 INCH WIDE. 6 INCH FOLDS. RIVET JOINT

Yellow Enamel Finish							White Enamel Finish					
Nos.	402	403	404	405	406	408	Nos.	502	503	505	506	508
Length, Feet	2	3	4	5	6	8	Length, Feet	2	3	5	6	8
Wt., Per Doz., Abt. Lbs.	1	1½	2	2½	3¼	4¼	Wt., Per Doz., Abt Lbs.	1	1½	2½	3¼	4½
Per Dozen	$4.40	6.65	8.85	11.05	13.25	17.70	Per Dozen	$4.70	7.05	11.75	14.10	18.80

Half dozen in a box

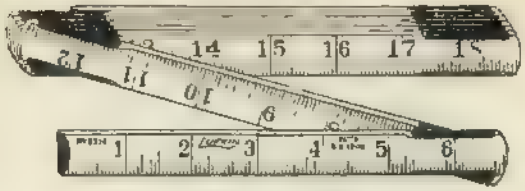
If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

ZIG ZAG RULES

LUFKIN



5/8 INCH WIDE, 6 INCH FOLDS

CONCEALED JOINTS

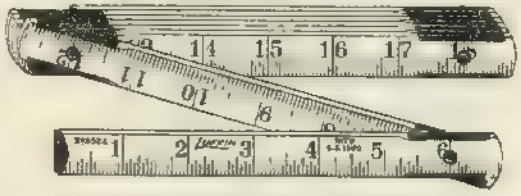
Yellow Enamel Finish

Nos.	8512	8513	8514	8515	8516	8518
Length, Ft	2	3	4	5	6	8
Wt., Per Doz. Abt. Lbs.	1	1½	2	2½	3	4
Per Dozen	$4.00	5.95	7.95	9.95	11.95	15.90

White Enamel Finish

Nos.	8613	8614	8615	8616	8618
Length, Feet	3	4	5	6	8
Wt., Per Doz., Abt. Lbs.	1½	2	2½	3	4
Per Dozen	$6.40	8.50	10.60	12.75	17.00

2-, 3- and 4-foot rules, 1 dozen in a box; 5-, 6- and 8-foot rules, ½ dozen in a box.



5/8 INCH WIDE, 6 INCH FOLDS

RIVETED JOINTS

Yellow Enamel Finish

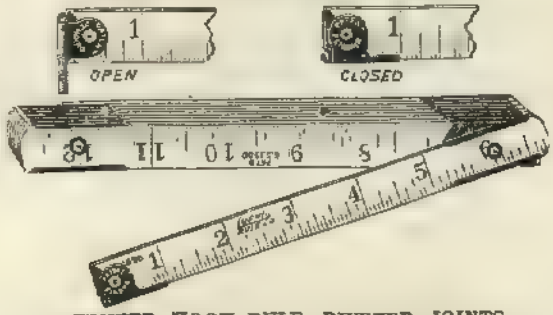
Nos.	8522	8523	8524	8525	8526	8528
Length, Ft.	2	3	4	5	6	8
Wt., per Doz Abt Lbs.	1	1½	2	2½	3	4
Per Dozen	$4.00	5.95	7.95	9.95	11.95	15.90

White Enamel Finish

Nos.	8623	8624	8625	8626	8628
Length Feet	3	4	5	6	8
Wt., Per Doz., About Lbs.	1½	2	2½	3	4
Per Dozen	$6.40	8.50	10.60	12.75	17.00

2-, 3- and 4-foot rules, 1 dozen in a box; 5-, 6- and 8-foot rules, ½ dozen in a box.

LUFKIN'S "HOOK" RULE



PATENTED HOOK RULE, RIVETED JOINTS

Yellow Enamel Finish

Nos.	H8524	H8525	H8526	H8528
Length, Feet	4	5	6	8
Wt., Per Doz., About Lbs.	2	2½	3	4
Per Dozen	$8.60	10.80	12.60	16.60

White Enamel Finish

Nos.	H8624	H8625	H8626	H8628
Length, Feet	4	5	6	8
Wt., Per Doz., About Lbs.	2	2½	3	4
Per Dozen	$9.15	11.30	13.40	17.45

4-foot rules, 1 dozen in a box; 5-, 6- and 8-foot rules, ½ dozen in a box.

Special Display Cases

	Per Dozen Rules
No. H8526D—6 Feet. Packed 1 Dozen in a Display Case	$11.10

STEWART HORSE CLIPPING MACHINES

NO. 1—THE BALL BEARING ENCLOSED TYPE

Has rigid base. Tubular upright. Gears all cut from solid metal and enclosed in dust proof metal box. All wearing parts are of hardened steel. New style, light, easy running flexible shaft—6 feet long. Compact—can be carried in a satchel or handled as shelf goods. Size of box only 6x11x12½ inches. The most perfect clipping machine ever made at any price.

No.	1
Weight boxed, lbs.	36
Each	$16.00

CHICAGO STEWART PATENT

Has rigid base. Tubular upright. Large strong crank handle. 6½-foot flexible steel shaft. Teeth in large gear all cut from solid metal. Wearing parts all hardened tool steel. Positive power. No belt to slip. Can be turned with either hand. Simple, strong, durable. It is light running and noiseless. Will clip a horse in 30 minutes.

No.	2
Weight, lbs.	56
Weight boxed, lbs.	70
Each	$22.00

HORSE CLIPPING ATTACHMENT FOR SHEEP SHEARING MACHINES

Can be used on the Stewart New Model or No. 9 Sheep Shearing machine. Attachment consists of eye spindle and 6½ feet of high grade flexible shaft. Complete with chain and the Stewart One-nut Dust-proof Clipping Knife.

Attachment complete—Weight, 10 lbs. ..... Each $9.50

STEWART SHEEP SHEARING MACHINES

NO. 9—ENCLOSED GEAR

Iron tripod and upright painted black, gearing and cogs cut from solid bar metal. Gearing is enclosed in a dust and dirt proof metal case and runs in oil constantly. All wearing parts of hardened tool steel. The solid jointed shaft consists of two solid steel spindles running in tubular sheaths which are connected together by a universal joint. Runs practically without any friction or wear. Fitted with No. 7 ball bearing shear, four combs and four cutters.

No.	9
Weight, lbs.	50
Each	$25.00

NEW MODEL SHEEP

Has all its gearing cut from solid metal. All wearing parts are of tool steel hardened. Has the latest improved shear. Simple in construction with few parts. Easy to adjust. Easy to keep in order. A small boy can turn the crank without tiring.

It shears clean, saving 1 to 1½ lbs of wool to a fleece. Saves time, saves wool and saves the sheep.

New Model—With 4 combs and 4 cutters.

Weight boxed, lbs.	60
Each	$25.00

Horse Clipping Attachment

Each $9.50

Combined New Model Machine—For both horse clipping and sheep shearing. ..... Complete $34.50

HAND SHEEP SHEARS

T. U. S.

Highly tempered polished steel, double bow, oval grip, patent solid neck, straight blade.

T. U. S. sizes, inch	6½	7
Weight per dozen, lbs	12	13
Per dozen	$30.00	$32.00

One-half dozen in a box.

AUTOMATIC GRINDER

Grinds knife in a few seconds to cut equal to new. Knives are placed in holder. No skill required. Grinder made entirely of metal.

Automatic grinder, fitted for both horse clipping and sheep shearing knives.

Weight, lbs 45
Each $21.00

One in a case complete with instructions.

PARTS OF STEWART NO. 1 BALL BEARING CLIPPING MACHINE

Nos.		Each
*704	Gear cap. Weight, 5½ ozs.	$0.60
*862	Leg bracket. Weight, 41 ozs.	.40
*864	Cotter pin. Weight, ¼ oz.	.02
866	6-foot chain, 30c per foot. Weight, 1 lb.	2.10
*867	Bracket stud and nut. Weight, 2 ozs.	.05
*868	Legs, each. Weight, 30 ozs.	.40
871	6-foot shaft. Weight, 39 ozs.	3.30
	In ordering for Stewart clipping machine purchased since January 1, 1915, specify shaft as 871A.	
*875	Handle nut. Weight, ⅛ oz.	.05
876	Eye spindle. Weight, 4 ozs.	.55
*877	Crank handle. Weight, 12 ozs.	.55
*879	Upper part of upright. Weight, 17 ozs.	.45
*880	Lower part of upright with coupling. Weight, 21 ozs	.70
*882	Gear case cover. Weight, 27 ozs.	.85
*883	Intermediate gear and pinion. Weight, 12 ozs.	2.30
*884	Balance wheel and spindle. Weight, 22 ozs.	1.15
*885	Drive gear and spindle. Weight, 19 ozs.	1.75
*886	Gear case, Weight, 50 ozs.	1.20
*887	Gear head. Weight, 20 ozs.	1.75
*888	Balls and ball cup. Weight, 1 oz.	.85
889	Small cog. Weight, 1 oz.	.30
890	Large cog. Weight, 1½ ozs.	.55
*891	Gear cap screw. Weight, ⅛ oz.	.05
*892	Grip handle screws, each. Weight, 1 oz.	.05
*893	Grip handle. Weight, 11 ozs.	.30
*894	Gear case screws, each. Weight, 1 oz.	.05
	3-inch ferrule for No. 871 shaft. Weight, 4 ozs.	.30
	5-inch ferrule for No. 871 shaft. Weight, 13 ozs.	.55

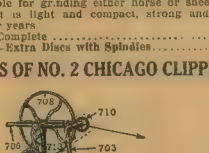
*For factory shipment only.

STEWART NO. 11 GRINDER
FOR HORSE CLIPPING AND SHEEP SHEARING MACHINE KNIVES

May be put on Stewart No. 1 Horse Clipping or No. 8 Sheep Shearing Machine in place of the shaft in a few seconds. Grinds all horse and sheep knives equal to new in a moment's time. No experience required. You can soon save enough in postage and grinding charges to pay for one of them. Besides you have the knives sharp and in cutting condition when you want them. No waits or breaks caused by carelessness or poor packing as when sending knives by mail for grinding. The illustration shows how it looks attached to the machine and how the knives are held during the grinding process. You will never be delayed on account of dull knives if you have one of these grinders. It is suitable for grinding either horse or sheep knives. The attachment is light and compact, strong and durable and will wear for years

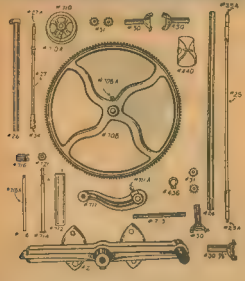
No. 11—Complete ..... Each $7 50
No. 177—Extra Discs with Spindles ..... " 3 25

PARTS OF NO. 2 CHICAGO CLIPPING MACHINE



Nos.		Each
700	Shaft without chain 6½ feet long. Weight, 5⅞ lbs.	$3.55
701	Chain for shaft 6½ feet long. Weight, 17½ ozs.	2 25
	6½-foot shaft and chain complete. Weight, 7 lbs.	5.60
*702	Spiral spring (without cover). Weight, 4½ lbs.	2.00
*703	5-inch ferrule for No. 700 shaft. Weight, 12 ozs.	.55
704	Gear cap. Weight, 6 ozs.	.55
705	Gear head casting. Weight, 20 ozs.	1.75
*706	Bracket. Weight, 12 lbs.	2 30
*707	Tripod. Weight, 10¾ lbs.	2 30
*708	Drive wheel. Weight, 11¾ lbs.	2.35
*709	3-inch ferrule for No. 700 shaft. Weight, 7 ozs.	.30
*710	Balance wheel. Weight, 24 ozs.	1.15
*711	Crank. Weight, 34 ozs.	.55
*712	Wood handle for crank. Weight, 4 ozs.	.15
*713	Axle. Weight, 13 ozs.	.55
*714	Handle bolt. Weight, 6 ozs.	.30
*715	Upright. Weight, 4 lbs.	1.15
*716	Pinion. Weight, 3 ozs.	.55
717	Eye spindle. Weight, 4 ozs.	.55
*718	Pinion shaft. Weight, 5 ozs.	.55
719	Small cog. Weight, 1 oz.	.30
720	Large cog. Weight, 2 ozs.	.55
*721	Hexagon nut for handle bolt. Weight, 1 oz.	.05

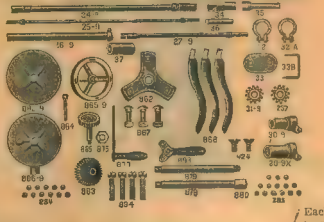
PARTS FOR STEWART NEW MODEL HAND POWER SHEARING MACHINE



Nos.		Each
* 21	Frame. Weight, 12½ lbs.	$2 30
* 24	Long tube. Weight, 12 ozs.	1.75
* 25	Long spindle, complete. Weight, 12 ozs.	2.30
* 25A	End of long spindle. Weight, 3 ozs.	.30
* 26	Short tube. Weight, 7 ozs.	.55
* 27	Short spindle, complete. Weight, 7 ozs.	.85
* 27A	Cog end of short spindle. Weight, 3 ozs.	.30
* 30	Yokes, ⅛ and ¾-inch diameter. Weight, 5 ozs.	.8
* 31	Cogs. Weight, 1 oz	.45
* 34	Bayonet ferrule. Weight, 2 ozs.	.30
*436	Tube clamp. Weight, 1 oz.	.30
*440	Leather guard. Weight, 2 ozs.	.1
*706	Drive wheel. Weight, 12 lbs.	2.75
*708A	Set screw for drive wheel. Weight, 1 oz.	.05
*710	Balance wheel. Weight, 24 ozs.	1 1
*710A	Set screw for balance wheel. Weight, ½ oz.	.0
*711	Crank. Weight, 34 ozs.	.6
*711A	Set screw for crank. Weight, 1 oz.	.0
*712	Wood handle. Weight, 4 ozs.	.15
*713	Axle. Weight, 13 ozs.	.5
*714	Wood handle bolt. Weight, 6 ozs.	.30
*716	Spur pinion. Weight, 3 ozs.	.5
*718	Pinion shaft. Weight, 5 ozs.	.55
*718A	Lock pin. Weight, 1/20 oz.	.01
*721	Hexagon nut for handle bolt. Weight, 1 oz.	.05

PARTS FOR STEWART NO. 4 SHEAR

PARTS FOR NO. 9 SHEARING MACHINE



Nos.		Each
* 24-9	Long tube. Weight, 14 ozs.	$1 75
* 25-9	Long spindle, complete. Weight, 13 ozs.	2 30
* 26-9	Short tube. Weight, 8 ozs.	.55
* 27-9	Short spindle. Weight, 6 ozs.	.85
* 30-9-30-9X	Yokes, ⅜ Weight, 5 ozs.	1 15
* 31-9	Cogs, threaded and not threaded. Weight, 1 oz.	.45
* 32	Upper tube clamp. Weight, 1 oz.	.30
* 32-A	Lower tube clamp. Weight, 1 oz.	.30
* 33	Leather guard. Weight, 2 ozs.	.15
* 33B	Hook for leather guard. Weight, 1 oz.	.02
* 34	Bayonet ferrule. Weight, 2 ozs.	.30
* 35	End of long or short spindle. Weight, 2 ozs.	.30
* 36	End of short spindle pin. Weight, ⅛ oz	.02
* 37	Back bushing. Weight, 1 oz.	.10
*862	Leg bracket. Weight, 41 ozs.	.40
*864	Cotter pin. Weight, ¼ oz.	.02
*865-9	Balance wheel and spindle. Weight, 40 ozs.	1.15
*867	Bracket stud and nut. Weight, 2 ozs.	.05
*868	Legs, each. Weight, 30 ozs.	.40
*875	Hexagon nut for crank. Weight, ½ oz.	.05
*877	Crank handle. Weight, 12 ozs.	.55
*879	Upper part of upright. Weight, 17 ozs.	.45
*880	Lower part of upright with coupling. Wt, 21 ozs	70
*882-9	Gear case cover. Weight, 49 ozs.	.85
*883	Intermediate gear and pinion. Weight, 12 ozs.	2.30
*885	Drive gear and spindle. Weight, 13 ozs.	1.70
*886-9	Gear case. Weight, 66 ozs.	1.15
*892	Grip handle screws, each. Weight, ¼ oz.	.05
*893	Grip handle. Weight, 11 ozs.	.30
*894	Gear case screws, each. Weight, 1 oz.	.05
*895	Set of ball bearings for gears. Weight, ¼ oz.	.15
*896	Set of ball bearings for spindles. Weight, ¼ oz.	.10

Nos.		Each
4	Handle, complete, each. Weight, 3 lbs.	$7.50
*200	Handle shell. Weight, 14 ozs.	1.15
*201	Leather guard. Weight, ½ oz	.15
*202	Leather washer. Weight, 1/10 oz.	.10
*203	Ferrule. Weight, ½ oz.	.15
*204	Long spindle. Weight, 4¼ ozs.	.70
205	Cogs, each. Weight, ¾ oz.	.45
206	Tension bolt. Weight, ¼ oz.	.10
207	Tension nut. Weight, ½ oz.	.10
*208	Eccentric roll. Weight, 1/7 oz.	.10
*210	Lid. Weight, 2½ ozs.	.85
*212	Tension spring screw. Weight, ⅛ oz.	.05
*213	Lid screws, each. Weight, 1/14 oz.	.10
*215	Stud screws, each. Weight, ⅛ oz.	.10
216	Comb. Weight, 2½ ozs.	.60
217	Cutter. Weight, 2¼ ozs.	.60
218	Tension spring. Weight, 1/10 oz.	.15
*260	Joint screws, each. Weight, 1/11 oz.	.05
*266	Joint spindle. Weight, 2 ozs.	.30
*273	Joint spindle pin. Weight, ⅛ oz.	.02
275	Upper joint yoke. Weight, 3 ozs.	.55
275A	Lower joint yoke. Weight, 3 ozs.	.55

*For factory shipment only.

PARTS FOR STEWART CLIPPING MACHINES

STEWART NO. 5 SHEAR

Can be used on any Stewart hand power sheep shearing machine. Guaranteed to cut any wool that grows. No matter what the condition of the wool, be it long and thick and matted and greasy or fine and crinkly and soft. These remarkable shears will cut just as fast and easy as the operator can handle the sheep. Comb and cutters are made of a carefully selected high grade metal, hardened by a special process and carefully ground ready for use.

No. 5—Shear Handle Complete. Cutter knife has 3 teeth. Comb, 10 teeth. Weight, 3 lbs, 2 ozs. ..... Each $8.50

PARTS FOR NO. 5 SHEAR

No. 277—Comb, 10 teeth. Weight, 2 ounces. ..... Each $0 75
No. 276—Cutter, 3 teeth. Weight ⅓ ounce ..... " .25

Combs and cutters carried only in stock; balance of parts can only be furnished by shipment direct from factory.

STEWART NO. 7 BALL BEARING SHEAR

This shearing head is regularly supplied on the Stewart Ball Bearing Shearing Machine No. 9, and is also ball bearing. In all other respects it is the same as our Stewart Shearing Head No. 5 and takes the same comb and three-point cutter. The ball bearings assist materially in making it operate easily, because friction of the moving parts is reduced to the minimum. The ball bearings also measurably increase the life of the shear, which is carefully and accurately made from first quality materials throughout. This is a very fine shearing head.

No. 7—Shear Handle Complete. Cutter knife has 3 teeth. comb, 10 teeth. Weight, 3 lbs, 2 ozs. ..... Each $10.00

PARTS FOR NO. 7 SHEAR

No. 277—Comb, 10 teeth. Weight, 2 ounces ..... Each $0.75
No. 276—Cutter, 3 teeth. Weight, ⅓ ounce ..... " .25

CLIPPING KNIVES AND HANDLE

OLD STYLE

Supplied on all Stewart clipping machines before January 1, 1915.

Dust proof pattern, one nut, balance pressure type.

Cutting plates are made of extra hardened and tempered material. Polished and ground sharp ready for use. When dull can easily be reground and made as sharp as when new.

Handle and knife complete. Weight, 20 ozs.

No. C1 ..... Each $4.50

Knife without handle (top and bottom plates). Weight, 8 oz.

No. C2 ..... Each $3.35

Handle only. Weight, 10 ozs.

No. C3 ..... Each $1 15

PARTS

No. 90, Top plate. Weight, 3 ozs.	Each	$1.40
No. 91, Tension spring of handle. Weight, ⅞ oz.	"	.07
No. 92, Tension bolt of handle. Weight, ⅛ oz.	"	.05
No. 93, Eccentric roll of handle. Weight, 1/15 oz.	"	.10
No. 94, Tension nut of handle. Weight, ⅛ oz.	"	.05
No. 95, Pin and shaft of handle. Weight, 2⅛ ozs.	"	.40
No. 97, Shank of handle. Weight, 3¼ ozs.	"	.45
No. 98, Front part of handle. Weight, 4 ozs.	"	.55
No. 99, Bottom plate. Weight, 5 ozs.	"	1.95

NEW STYLE

Supplied on all Stewart horse clipping machines since January 1st, 1915.

Handle and knife complete. Weight, 20 ozs.

No. B1 ..... Each $4.50

Knife without handle (top and bottom plates) Weight, 8 ozs

No. B2 ..... Each $3 35

Handle only. Weight, 10 ozs.

No. B3 ..... Each $1.15

PARTS

No. 91 (old No. 363), Tension spring. Wgt. ⅞ ounce.	Each	$0.05
No. 92 (old No. 362), Tension bolt. Weight ⅛ ounce	"	.05
No. 94 (old No. 364), Tension nut. Weight, 1/7 ounce	"	.05
No. 350, Shaft socket. Weight, 6 ounces	"	.30
No. 351, Taper sleeve. Weight, 2 ounces	"	.45
No. 352, Drive pin. Weight, 2 ounces	"	.40
No. 353, Drive ball. Weight ⅛ ounce	"	.10
No. 354, Brace. Weight, 5 ounces	"	.55
No. 355, Cross head. Weight, 1 ounce.	"	.55
No. 356, Cross head pin. Weight, ⅛ ounce	"	.10
No. 357, Guide pins. Weight, 1/7 ounce	"	.05
No. 358, Ball boss. Weight, 1/7 ounce	"	.05
No. 359 Socket boss. Weight, 1/7 ounce	"	.05
No. 360, Top plate. Weight, 2 ounces	"	1 40
No. 361, Bottom plate. Weight, 3 ounces	"	1.95

HORSE LAWN MOWERS

*FENDEN

Four revolving blades ⅛-inch thick, made of the best knife steel, vanadium crucible analysis, oil tempered. Drive rollers, 15 inches; reel, 8 inches diameter.

Frame construction is the strongest that is possible to build and is reinforced at each end with heavy steel bars. All parts accurately machined and fitted. Equipped with the only graduated raising and lowering device, enabling the operator to instantly adjust the cutting height from ½ to 2¼ inches, or allow the knives to pass over a stone.

The bottom knife, revolving reel, and iron roller are demountable without disturbing the frame of the mower. Reel bearings turn in adjustable split brass bushings. Double riveted malleable reel braces throughout.

Fitted with a train of three gears and durable triple pawl ratchets. Reel is quickly adjusted to bottom knife.

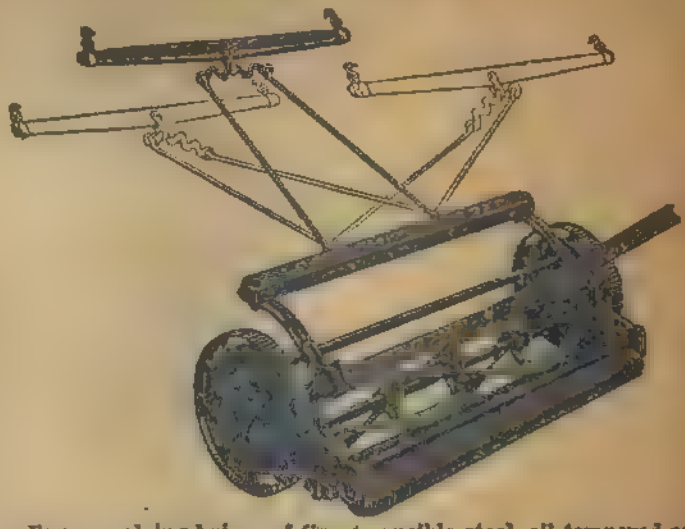
Can be furnished with five revolving knives and bottom knife with upturned edge or lip.

Fully equipped with drivers seat, shafts and side-draft attachments.

Finish, dark green and empire red; decorations, gold.

Width of cut, inch	30	35	40
Gross weight each, lbs	645	710	760
Each	$225 00	250.00	275 00

*CRESTLAWN PONY STYLE



Four revolving knives of finest crucible steel, oil tempered and self-sharpening. Drive wheels, 11 inches high; width of cut, 30 inches; reel, 6 inches in diameter; reel axle, ¾-inch. Double riveted malleable reel braces.

Has an automatic interlocking adjustment which cannot be jarred nor twisted out of alignment. The reel has self-adjusting ball bearings.

Patented horse attachment that can be adjusted quickly and in such a manner that in operation the mower is held to the ground. The draft of the mower is just the same as when operated with the handles.

Finish, light green and gold bronze; decorations red.

Shipping weight, lbs. 150

Each $80.00

DUNHAM LAWN ROLLERS

Drums of heavy sheet steel with seams welded. Weights keep the handle in an upright position. Rollers can be filled with water or sand; when filled with sand the roller weighs about 50 per cent more than when filled with water.

No.	WB 5
Diameter, inch	18
Length, inch	24
Sections	1
Weight, empty, lbs.	85
Weight, filled with water, lbs	300
Each	$26 00

CAPITOL LAWN TRIMMER AND EDGER

Cuts every blade of grass left by the lawn mower close to the walk and fences. Cast iron wheel 8¼ inches in diameter with 1½-inch face. Cylinder 5 inches in diameter with four crucible steel blades, hardened and tempered in oil.

Width of cut, inch	6
Extreme width, inch	13¼
Shipping weight each, lbs.	20
Each	$15.00

OSBORN LAWN MOWER SHARPENER

Simple, practical and easily operated. Always ready for use. Will fit any lawn mower blade. Files made of high grade steel, with four cutting edges. Groove of sharpener follows the curve of reel blade.

To operate, place the short side of groove on the bevel side of the blade.

Tuscan bronzed cast iron holder, held together by two machine screws. ¼-inch square double cut file.

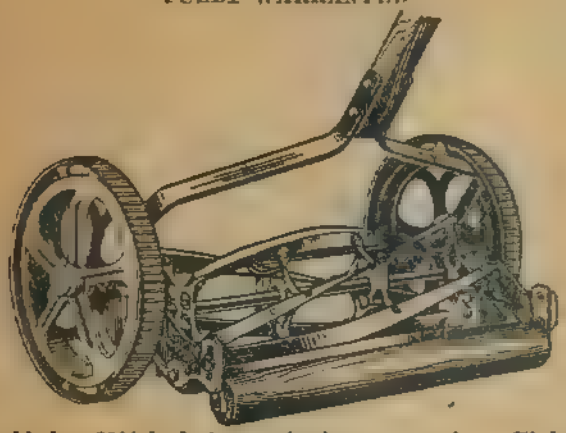
Length, inch	3½
Width, inch	2⅛
Weight per dozen, lbs.	8
Per dozen	$10.00

*For shipment from factory only.

One dozen in a display box.

LAWN MOWERS

BALL BEARING
FULLY WARRANTED



Five blades, 10½-inch drive wheels, open spokes. Finish, egg shell enamel, gold bronze and brilliant colors.

The design is the most attractive that is possible to produce and permits of the mower being so lightly constructed where strength is not needed that its weight is materially less than other high grade mowers, adding to the easy running qualities of the ball-bearing features, parts and joints carefully machined and reinforced shoulders are turned on the shrub guard forming a strong frame construction. On the ends of this heavy shaft or shrub guard, which pass through the side plates, are mounted the ball-bearing drive wheels. Hence, the strain caused by the wheels in motion falls on the shaft and not on the side plates, as in the ordinary type of mower where the wheel spindles are a part of the cast sideplates. Self adjusting. Five revolving blades of vanadium crucible steel. Oil tempered stationary blade has upturned lip or edge, cutter bar adjusted by top and bottom screws, extra wide case, hardened pawls.

Size, inch	14	16	18	20
Gross weight each, lbs.	50	62	65	68
Each	$25 50	26.50	27.50	28 50

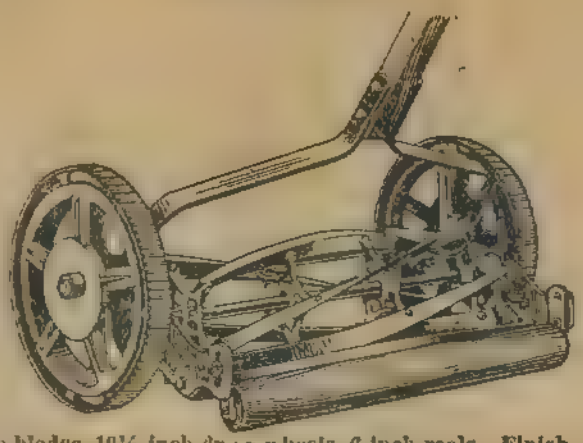
CRESTLAWN
BALL-BEARING

Five blades, 11-inch drive wheels. 6-inch reel. Finish, silver and gold bronze; decorations, empire red.

The wheels as well as the revolving knives turn on ball-bearings. Cutter bar is secured to the four-squared rigid frame by a patented interlocking adjustment that is absolutely impossible to be knocked or twisted out of alignment. Blades of razor steel, tempered in oil and self-sharpening. A ¾-inch reel shaft and double riveted end spiders prevent the reel from being sprung and adds increased momentum.

Size, inch	14	16	18	20
Gross weight each, lbs.	62	64	66	68
Each	$26.00	27.00	28.00	29.00

HERCULES
BALL BEARING



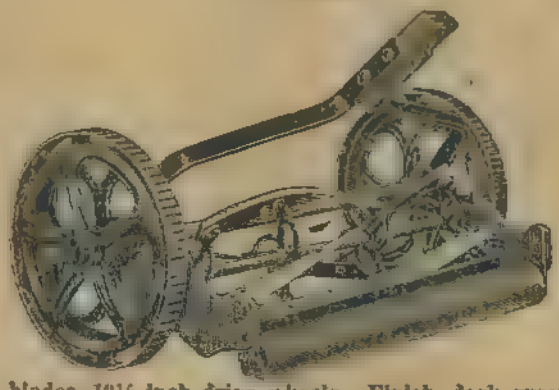
Five blades, 10½-inch drive wheels, 6-inch reels. Finish, white enamel frame and reel, gold enamel wheels with green center and green handle irons; decorations, red.

This mower is attractive and permits of being lightly constructed where strength is not needed, and its weight is materially less than that of any high-grade mower on the market. Each point of construction has been tried out individually in other styles and are combined with patented features, such as self-adjusting ball bearings and steel wheel mountings.

Blades of vanadium crucible steel, oil tempered. Stationary blade has upturned lip or edge. Cutter bar adjusted by top screws on each side of pivotal point. Extra wide case-hardened pawls, insuring a ratchet of long life and durability.

Size, inch	14	16	18
Gross weight each, lbs.	62	64	66
Each	$21 00	22 00	23.00

FENDEN
BALL-BEARING



Four blades, 10½-inch drive wheels. Finish, dark green with white enamel wheels; gold trimmings.

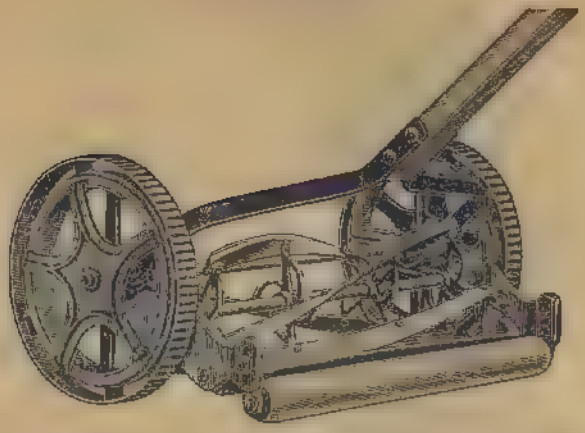
An attractive light-weight, ball bearing mower. Shoulders are turned on the shrub guard, forming a strong frame construction. On the ends of the heavy shaft or shrub guard, which pass through the side plates are mounted the ball-bearing drive wheels. Hence, the strain caused by the wheels in motion falls on the shaft and not on the side plates, as in the ordinary type of mower where the wheel spindles are a part of the cast side plates. Blades of vanadium crucible steel, oil tempered, self-adjusting and self-sharpening. Cutter bar adjusted by top and bottom screws.

Size, inch	14	16	18
Gross weight each, lbs.	55	58	61
Each	$24 50	25.00	26.50

LAWN MOWERS

ADMIRAL

BALL-BEARING



Four blades, 10½-inch wheels, 6-inch reels. Finish, gold bronze and blue; decorations, silver bronze and blue.

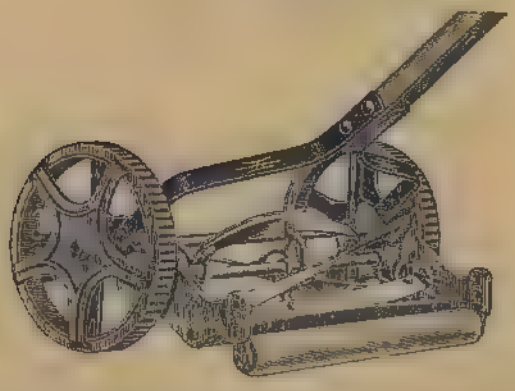
A strictly high grade mower, and one of the most beautiful and graceful designs ever produced. The shrub rod runs through the center of the mower, forming an axle for the wheels. All wood parts are of carefully selected stock and lacquered to protect from weather. Accurately fitted and adjusted throughout. Screw adjusting.

Blades of highest grade crucible steel, oil tempered, spirally formed and self-sharpening.

Size, inch	14	16	18
Gross weight each, lbs	48	51	54
Each	$18.00	19.00	20 00

DIRECTOR

BALL BEARING



Four blades, 9-inch wheels, 5½-inch reels. Finish, red and gold; decorations, gold and silver.

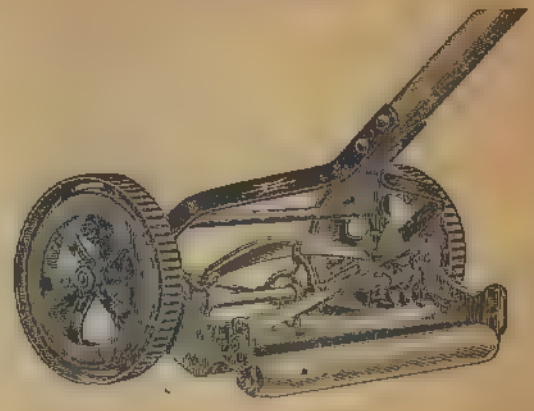
This mower is very graceful in outline, and very easy running. Perfectly machined and fitted and parts are interchangeable. Screw adjusting cutter bar. The ball bearing cones are made of best quality tool steel and tempered glass hard. Automatically adjusted.

Blades of highest grade crucible steel, spirally formed and self-sharpening, which are attached to the reel shaft by means of malleable iron spiders. Shaft is made of cold rolled machinery steel.

Size, inch	12	14	16	18
Gross weight, lbs	40	42	45	50
Each	$13.50	16.00	16.50	17.00

PARAGON

BALL-BEARING



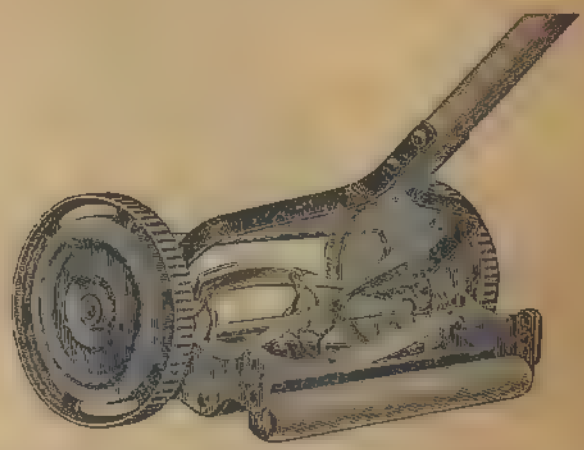
Four blades, 8½-inch wheels; 5½-inch reels. Finish, gold and aluminum bronze; decorations, green.

Semi-open type, light and easy running. A smaller ball-bearing mower that would give better satisfaction could not be built. Every bearing is accurately machined and all material is carefully selected. Blades of high-grade crucible steel, oil tempered and water ground. All ball bearing parts automatically adjusted.

Size, inch	10	12	14	16
Gross weight each, lbs	38	40	42	44
Each	$14.50	15.00	15.50	16.00

BABY GRAND

BALL-BEARING



Four blades, 8-inch wheels; 5½-inch reels. Finish, aluminum and gold; decorations, blue.

An attractive light-weight, ball-bearing mower. Suitable for owners of small lawns. Accurately fitted; strongly made and has full screw adjustment. Ball-bearing parts are automatically adjusted. All material is first-class. Cones are of tool steel tempered glass hard. Blades of high quality knife steel ground under water.

Size, inch	10	12	14	16
Gross weight each, lbs	38	40	42	45
Each	$14 50	15 00	15 50	16 00

LAWN MOWERS

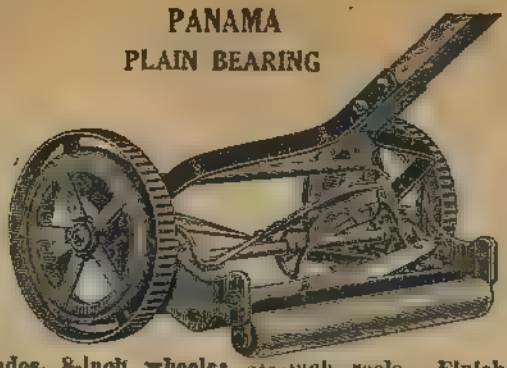
CLOVER LEAF
PLAIN BEARING

Three blades, 8-inch wheels; 5½-inch reels. Finish, apple green and gold bronze; decorations, green.

New and attractive design. All parts are machined and fitted to ensure accurate construction. Screw adjustments throughout. The reel shaft is made of machinery steel and has adjustable brass bushings for taking up wear. Blades of high-grade blade steel, carefully tempered and spirally formed.

Size, inch	10	12	14	16
Gross weight each, lbs.	38	40	42	44
Each	$12 50	13.00	13 50	14.00

PANAMA
PLAIN BEARING



Three blades, 8-inch wheels; 5½-inch reels. Finish, gold bronze and green.

Guaranteed to be the best and most attractive, low-priced mower ever made. Very light in weight, yet strongly constructed. All connecting points carefully milled to exact dimensions. Shoulders are machined on each end of cross-rod to produce a rigid frame. Blades of crucible steel, thoroughly tempered. The reel is equipped with brass bushings and a locknut device for taking up wear. Screw adjusting.

Size, inch	10	12	14	16
Gross weight each, lbs.	38	40	42	44
Each	$12.50	13.00	13.50	14.00

GRASS CATCHERS

EASY EMPTYING

Heavy galvanized wire frame. Galvanized wire handle, hook and arms fastened to frame. Heavy white duck sides. Perforated to prevent grass from slipping. Complete with adjustable eye brackets and hooks for attaching. Will fit 12 to 18-inch mowers of any make.

PACIFIC

Non-Slipping Galvanized Steel Bottom.

No.	18 G
Length, inch	19
Width, inch	18
Greatest depth, inch	20
Weight per dozen, lbs	50
Per dozen	$33.00

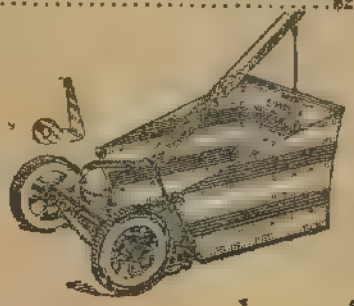
GEM

Smooth Bottom

Made similar to No. 18G, but a trifle smaller and from lighter materials. Fits any lawn mower 12 to 18 inches wide. Square back. Smooth galvanized sheet metal bottom. Duck sides, 16½ inches deep, 17 inches wide.

No.	16 G
Weight per dozen, lbs.	40
Per dozen	$27.50

SIMPLEX



Made with canvas sides and galvanized iron bottom. Fits all makes of lawn mowers.

Nos.	1	2
For mowers, inch	12, 14, 16	16, 18, 20
Weight per dozen, lbs.	55	60
Per dozen	$24.00	26.00

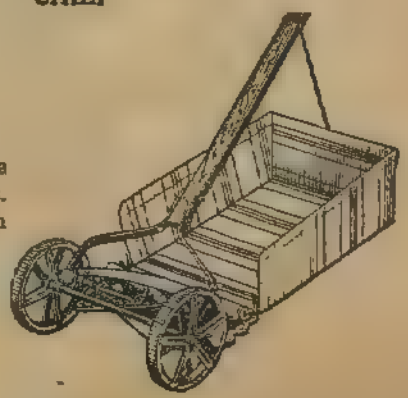
FAVORITE

Galvanized steel wire frame, with white canvas body, instantly attached or detached. Will fit any mower. Galvanized iron bottom. Perforated to prevent grass from slipping.

Nos.	11	12
For mowers, inch	12 to 16	16 to 20
Length, inch	20	21
Width, inch	16	19
Depth, inch	13	13
Weight per dozen, lbs.	38	40
Per dozen	$22.00	23.00

CHIEF

A good serviceable catcher made of canvas. Fits all makes of lawn mowers.



Nos.	1	2
For mowers, inch	12, 14, 16	16 18, 20
Gross weight per dozen, lbs.	30	30
Per dozen	$18.00	20.00

HORTON WASHING MACHINES

ELECTRIC

With Three-Way Wringer

Combined hand or electric washing and wringing machine. High speed mechanism. Cut gears mounted on side. Steel frame cut geared wringer, ball bearing, with 1¾x10-inch rolls, guaranteed for five years Tub Louisiana red cypress, natural finish. Four ball bearing casters. Motor equipped for alternating 110 or 220-volt current

We stock No. 32 in 110V, 220V, 60 cycle and 110V, 50 cycle.

Horse Power of Motor, ¼.

No.	32
Extreme hght crated, in	39
Weight crated, lbs	203
Tub dimensions, inch	21½x22x12
Each	$120.00

MIRACLE HIGH SPEED HAND

Louisiana red cypress tub. Dovetailed staves. Steel hoops. High speed. Lever operated. Cut gears. Metal cap over end of post prevents injury to clothes. Legs are extensions of staves.

No.	22
Height crated, inch	31½
Weight crated, lbs	166
Tub dimensions, inch	20¾x22½x12
Each	$30 00

VACUUM HAND OR POWER

Agitator makes 2½ strokes to each operation of lever. Mechanism disconnected when lid is open.

The many perforations or air valves cause so much agitation clothes are cleaned in less time than other vacuum machines. Gears covered. For power use 8x1¾ pulley in place of fly wheel.

No.	35
Height, crated, inch	36
Weight, crated, lbs	101
Tub dimensions, inch	20½x22½x12
Each	$37.50

HIGH SPEED POWER

Cut shows Miracle Belt Driven Power Machine. Pulley, 8x1¾ inches, should run 245 revolutions.

No.	22 P
Extreme height crated, inch	31½
Weight crated, inch	89
Tub dimensions, inch	20¾x22½x12
Each	$30.00

PEERLESS WATER MOTOR

Tub of Louisiana red cypress. Dasher post guarded with cap, preventing injury to clothes. Stave leg type. Operated with the Peerless water motor.

No.	[illegible]
Height, crated in	31½
Weight, crated lbs	71
Tub dimensions, in	20½x22½x13½
Each	$38 00

TUB STANDS

Light, strong, take less room than benches. Made of steel; aluminum finish. 4 feet on casters make it easy to move.

Weight pair crated, lbs	28
Per pair	$5 00

COMBINATION HIGH SPEED

With Three-Way Wringer For Hand or Belt Drive

Combined washer and wringer. Tub Louisiana red cypress, natural finish. Cut geared. Metal cap over end of post prevents injury to clothes. Wringer and machine operated by same power. Interchanges with fly wheel for hand power. Wringer guaranteed five years. Reversible and ball bearing. Size of rolls, 1¾x10 inches.

No.	31
Extreme height, crated, inch	50
Weight, crated, lbs	178
Tub dimensions, inch	21¼x22x12
Each	$75.00

HAND VACUUM WASHERS

Heavy tin. Raising and lowering the washer, the water and soap are forced through the clothes. This avoids rubbing or injuring the finest fabrics.

A hardwood handle 36 inches long is furnished with each washer.

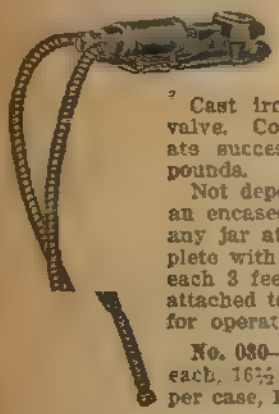
No.	21
Height, inch	7½
Diameter, inch	8
Doz in carton, without handles	1
Net weight dozen with handles, lbs	23
Ship wgt carton, without handles, lbs	18
Ship wgt handles dozen, lbs	11
Per dozen	$15 00
Handles only	Per doz 3.00

Handles loose.

WASHING MACHINE ELECTRIC MOTORS
FOR NO. 32 HORTON

Horsepower of Motor ⅙
50-60 cycle, 110 volt, alternating current.

No. 32M
Height, inch..... 5½
Case, inch 4½x5
Shaft, inch ½x8
Ship wgt ea, lbs 16
Each $37.50
One in carton.



WATER MOTORS
HORTON PEERLESS

With Dolly and Hose Complete

Cast iron case with brass automatic sliding valve. Connects direct to faucet and will operate successfully on as low a pressure as 20 pounds.

Not dependent on springs to operate, but uses an encased brass spring as a cushion to relieve any jar at end of stroke, and to reverse. Complete with intake and outlet. Small rubber hose, each 3 feet long, wire bound. Can be used and attached to any rotary washing machine, or used for operating other small machinery.

No. 080—Length over all, 17 inches; net weight each, 16½ lbs. dozen in case, ½; shipping weight per case, 120 lbs. Loose. . . . . Each $21 00

RED DEVIL

Most economical power producer for household purposes. An invaluable hydraulic power plant for house or workshop. Can be attached to any kitchen faucet. Cost about one cent per day to operate.

No. 1994 — Intended for heavier household work. Develops on 80-lb pressure water main, ¼-brake horsepower. Furnished with 6-inch motor and 2x1¼ flat belt. Double flanged pulley. Can be attached to small machinery, rotary washing machines, etc.

No. 1492—Used for polishing, buffing, grinding and running small machinery. Develops 5000 revolutions on 80-lb pressure, delivering ⅛-brake horsepower. Furnished with 1½-inch grooved wood pulley wheel, 4-inch beveled faced emery wheel, felt buffing wheel and cake of silver. One in a carton.

Nos.	1994	1492
Length, inch	9½	6½
Width, inch	7	5¾
Shipping weight each, lbs	12	6
Each	$10 20	7 20

REPAIRS FOR WASHING MACHINES
FOR PEERLESS WATER MOTOR WASHER NO. 30

No.	Name	Each	Weight Lbs	Weight Oz
*1	Valve Plug	$ .60		4
*2	Vellumoid Gasket	05		1
*3	Valve	1 20		4
*4	Valve Nut	20		1
*5	Short Spring	.10		1
*6	Valve Stem	15		2
*7	Female Flange	25		3
*8	Male Flange	.25		3
*9	Spout	.15		1
*10	Piston Tubing	.20		3
*11	Long Spring	.20		2
*12	Vellumoid Head Gasket	05		1
*13	Cylinder Head with Gland Nut	1.20		11
*14	Piston Packing	.05		1
*15	Gland Nut	.15		2
*16	Geared Rack	.60		8
*17	One Set Leather Cups	.60		1
*18	Cylinder with Valve and Plug	6.20	5	
*19	Lid Lift	15		2
*20	Motor Base with Roller	1 20	5	4
*21	Gear Cover	.35	1	8
*22	Gear	25		8
*23	Roller (not shown)	15		2
*24	Inlet Hose with Connections	1 20	1	2
*24W	Hose Washer	10		
*25	Outlet Hose with Connections	.80	1	
*27	Outlet Hose Weight	15	1	
*[illegible]8	Dasher Shaft	.25		10
*6[illegible]	Plug	.10		1
*132	Lock Casting	.15		4
*133	Lock Casting and Bolt	25		4
*186	Galvanized Post	.40		12
*187	Galvanized Plate	.15		7
*194	Tub Handles (per pair)	.40		3
*195	Hinges (per pair)	40		10
*198	Dasher	.50	2	6
*199	Galvanized Cup	25		2

REPAIRS FOR WASHING MACHINES
FOR HORTON VACUUM WASHER NO. 35

Nos.	Name	Price	Wt lbs
7	Spout	$0.15	⅛
* 19	Lid handle	.15	⅛
* 65	Plug	.10	⅛
*132	Lock casting	.15	¼
*133	Lock casting and bolt	.25	⅜
*142	Pitman bolt	.15	⅛
*143	Pitman bolt	.15	⅛
*190	8-inch power pulley	2.00	5
*191	Fly wheel	2.00	12½
*192	Large gear wheel	1.00	3⅜
*194	Tub handles, pair	.40	⅛
*195	Lid hinges, pair	.25	⅛
*211	Lock lever	.40	⅜
*236	Lock lever bolt	.15	⅛
*500	Handle bracket	.85	2⅛
*505	Top frame	1.60	6¾
*506	Plunger crank	.50	⅛
*507	Plunger shaft brackets	.50	⅛
*509	Plunger	1.60	3⅛
*514R	Plunger bracket cover	.85	2⅜
*514L	Plunger bracket cover	.85	2⅜
519	Side frame	1.60	5½
*520	Top frame gear	.85	1⅛
*521	Top frame gear cover	.30	⅜
*522	Pitman	.40	⅛
*523	Frame shaft	.30	⅜
*524	Ball shaft	.30	⅛
*525	Plunger shaft	.85	1⅛
*527	Lock lever spring	.15	⅛
*528	Wood lever	.25	¾

*For factory shipment only.

REPAIRS FOR WASHING MACHINES

FOR HORTON SWINGING WRINGER WASHERS

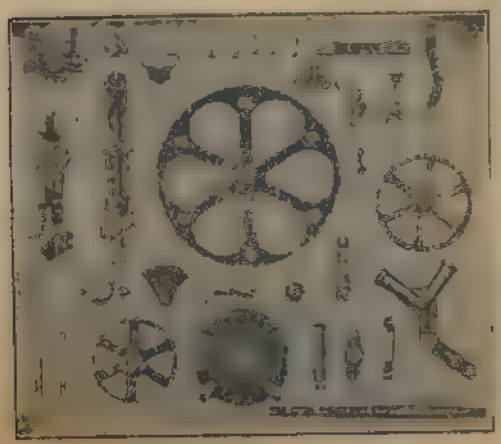
NOS. 31 AND 32

Nos.	Name	Price	Wght lbs
* 19	Lid lift	$0.15	⅛
* 21B	Lid rest	.25	⅜
*128	Wood lever	.25	⅜
*132	Lock casting	.15	⅛
*133	Lock casting and bolt	.25	⅝
*139E	Large cut gear wheel	1 00	3⅝
*153	Caster	.25	⅛
*157	Motor pulley	.70	⅛
186	Galvanized post	.40	¾
*187	Galvanized plate	.15	⅛
*188	Fly wheel pinion	.40	⅛
*190	Pulley wheel	2.00	5
*191G	Fly wheel, grooved	3.50	11½
*195	Lid hinge, pair	.40	¾
*198	Dasher	.50	2¾
*199	Galvanized cup	.25	⅛
*201	Gear case bevel gear	1 25	1
*202	Same as 201, lower	1 25	1
*209	Dasher bevel pinion	.40	⅛
*208	Dasher gear cover	.40	¾
*210	Top frame gear cover	.30	⅛
*211	Connecting rod	.50	⅛
*211	Lock lever	.40	⅝
*212	Top frame	1.25	6½
*213	Dasher bevel gear	50	1⅛
*214	Top frame cut gear	.70	1⅝
*217	Sector bracket	.85	2⅛
*231	Dasher shaft	.25	⅝
*233	Top frame shaft	.25	⅛
*236	Lock lever bolt	.15	⅛
*237	Motor cord	2 00	⅛
*238	Leather belt	1 60	⅛
*240	Side frame	1 25	5⅞
*241	Bracket for wringer	1 60	5⅜
*242	Gear cover	30	½

No.	Description	Price	Weight Lbs	Weight Oz
*243	Bevel gear bracket	2.00	5	6
*244	Clutch	.50		10
*245	Clutch shifter	.30		6
*246	Bracket for clutch shifter	.25		12
*247	Stop	.1b		7
*248	Large bevel cut gear	1.25	1	3
249	Small bevel cut gear	1.25		13
*250	Gear case	.85	4	7
*251	Top casting on wringer	1.25	3	4
*252	Hand wheel	.15		8
*253	Safety release lever	.30		12
*254	Reverse lever	.25		7
*255	Reverse lever bracket	.10		3
*256	Wringer lock casting	.30		14
*257	Wringer lock lever	.10		4
*258	Wringer lock lever bracket	10		3
*259	Large gear cover	.10	1	14
*260	Brass bracket for No. 253	2		1
*261	Wringer drive shaft	.50	3	
*262	Vertical bevel gear shaft	.30		12
*263	Reverse bar	.15		8

No.	Description	Price	Weight Lbs	Weight Oz
*264	Tension shaft	.50		9
*265	Tension shaft collar (not shown)	.10		1
*266	Safety dog	.50		4
*267	Lock plunger	.15		4
*268	Lock plunger connecting rod	.10		2
*269	Clutch, key	.10		1
*270	Tub drain board flange (not shown)	.15	1	4
*271	Wringer board flange (not shown)	.10		1
*272	Pitman bolt	.15		3
*273	Tension shaft bushing (not shown	.10		1
*274	Clutch lever plunger	10		1
*275	Safety trigger springs	10		
*276	Wringer lock springs	15		
*277	Clutch lever springs	.10		
*278	Trigger dog springs	.10		
*279	Lock lever springs	.10		
*280	Drain faucet	1.25	1	

FOR NEW MIRACLE WASHER NO. 22



Nos.	Name	Price	Wght lbs
7	Spout	$0.15	⅛
* 19	Lid lift	.15	⅛
* 65	Plug	.10	⅛
*120A	Top frame	1 25	6⅝
*124	Rocker arm	.30	1⅛
*125	Connecting rod	.50	1⅜
*127	Pitman	.40	⅛
*128	Lever	.25	⅛
*129	Lever casting	.85	4
*131	Lid rest	.25	⅛
*132	Lock casting	.15	⅛
*133	Lock casting bolt	.25	⅝
*140	Large gear stud	.15	⅛
*141	Connecting rod pin	.15	⅛
*142	Upper pitman bolt	.15	⅛
*143	Lower pitman bolt	.15	⅛
*144	Side frame	1.80	
*160A	Gear cover	.40	⅛
167	Segment gear	.40	1⅛
*168	Bevel pinion	40	⅛
186	Galvanized post	.40	¾
*187	Galvanized plate	.15	⅛
190	Pulley wheel	2 00	5
*191	Fly wheel	2.00	12
192	Large cut gear wheel	1 00	3⅝
*193	Thumb screw	.15	⅛
*194	Tub handles, pair	.40	⅛
*195	Hinges, pair	.40	⅝
*196	Dasher shaft	.25	⅝
*197	Frame shaft	25	⅛
*198	Dasher	.50	2⅜
*199	Galvanized cup	25	⅛

All parts can be sent by parcel post.

Fly Wheel No. 191 should go by express.

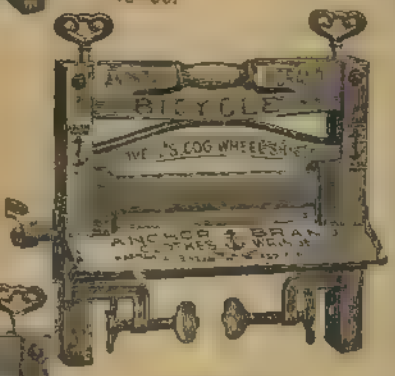
*For factory shipment only.

CLOTHES WRINGERS
LOVELL MFG. CO.

GUARANTEE

Enclosed cog wheels. Steel ball bearings. Warranted 5 years.

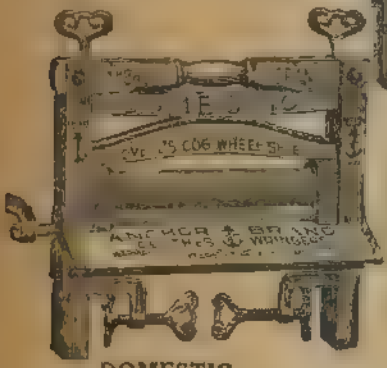
No. 700
Size rolls, inch....1¾x10
Ship wt doz, lbs... 275
Per dozen $132.00
Extra rolls in stock. Lower, No. 151; upper No 33.



BICYCLE

Enclosed cog wheels. Steel ball bearings. Warranted 3 years.

No. 770
Size rolls, inch....1¾x10
Ship wt doz, lbs.. 275
Per dozen $128 00
Extra rolls in stock Lower, No. 151; upper, No 33

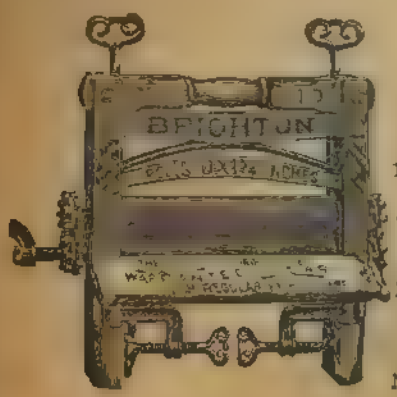


DOMESTIC

Enclosed cog wheels. Metal bearings. Warranted 3 years
No. 670
Size rolls, inch.... ...1¾x10
Ship weight dozen, lbs 268
Per dozen $118 00
Extra rolls in stock Lower No. 151; upper, No. 33.

DOMESTIC

Metal bearings. Warranted 3 years.
No. ..... D 110
Size rolls, inch.. ... ..1¾x10
Ship weight dozen, lbs 262
Per dozen $114 00
No. ..... D 112
Size rolls, inch..... ..1¾x12
Ship weight dozen, lbs 295
Per dozen $130 00
Extra rolls for No. D110, upper 39, lower 60.
Extra rolls for No. D112, upper 43, lower 64.

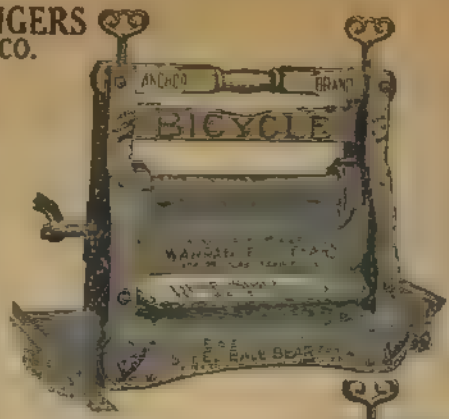


BRIGHTON

Metal bearings. Warranted 1 year.

No. 110
Size rolls, inch 1¾x10
Ship weight dozen, lbs 261
Per dozen $110.00

Extra rolls in stock. Lower No. 60; upper, No. 39.



BICYCLE

For stationary, cement or soapstone tubs. Reversible waterboard conducts the water into either tub. Enclosed cog wheels. Steel ball bearings. Warranted 3 years.

No. 7618
Size rolls, inch..1¾x11
Ship wgt doz, lbs 360
Per dozen $164 00
Packed 2 in case.
Extra rolls, lower 152, upper 3[illegible]

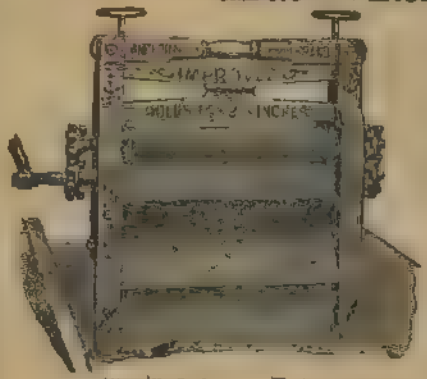
KINGSTON

For stationary wood or cement tubs. Reversible water board. Galvanized metal bearings. Steel spiral springs. Warranted 3 years.

No. 321
Size rolls, inch..1¾x11
Ship wgt doz, lbs 340
Per dozen $150.00

Two in a case.

IMPROVED LAUNDRY



For stationary tubs only. Adapted for hotels, Chinese or small laundries. Reversible drain conducts the water into either tub.

No. ..... F 6
Size rolls, inch..2¼x12
Ship wgt doz, lbs 570
Per dozen $260.00
One in a case.
Extra rolls, lower 72, upper 71.

No. ..... F 8
Size rolls, inch..2¼x14
Ship. wt. dz, lbs 635
Per dozen $318.00
One in a case. Extra rolls, lower 74, upper 73.

BICYCLE

Enclosed cog wheels. Steel ball bearings. Warranted 3 years.
No. 740
Size rolls, inch..1¾x10
Ship. wt. dz, lbs 280
Per dozen $128.00
Three in a case. Extra rolls lower 151, upper 33

DOMESTIC

Metal bearings. Warranted 3 years.
No. ..... D 22
Size rolls, inch..1¾x10
Ship wgt doz, lbs 240
Per dozen $101.00
No. ..... D 23
Size rolls, inch..1¾x11
Ship wgt doz, lbs 256
Per dozen $112.00

"McPherson" Player Piano Style No. 300

Beautiful Mahogany Finish, has Sliding Doors and Fold in Pedals.

30 DAY FREE TRIAL

Because Player Pianos are a comparatively modern invention there are those who impose excessive profits upon any who are inclined to take advantage of the practical character of the instrument. Thoughtful persons among us who have neither the ability, time or inclination to become proficient in the production of music, but who, nevertheless delight in the pleasures of harmony and concord, and who recognize in the mechanical player a broad and satisfying compensation, are in position to appreciate the genius that has brought forth this contribution to art. But [illegible] seek to put upon you. You ought to have a [illegible] and here it is—the McPherson Full Guaranteed 88-Note Player Piano we have a truly [illegible] producing machine that may be made easily to appeal to every artistic mood, every emotional period as the greatest maestro would want it to do—and at a price within the reach of any of us. That is the wonder of it. As good as the best-priced as fairly as can be done. Another demonstration of our Co-operative Factory to you method of buying direct and eliminating the Jobber, Wholesaler and Dealer. It is handsomely designed, and can be furnished in a beautiful mahogany finish case, with sliding doors, fold in panels, and beautifully turned trusses. Height, 4 feet 9 inches; length, 5 feet 2 inches; depth, 2 feet 5 inches. These are some of the features: Seven and one-third octaves. Three strings in unison and overstrung bass, nickel-plated brackets, double repeating action, pin block made of several layers of hard rock maple, direction of grain alternating successively, convex sounding board, imported wire. Empire top, and Genuine Ivory keys. A positive governor that will insure perfect tempo control under any and all conditions of pumping and one of the easiest operating players made. Material and workmanship fully guaranteed for 25 years. Weight, boxed for shipment, about 1000 pounds. Shipped from Chicago Factory.

F-4067 McPherson Player Piano $360.00

OUR TWENTY-FIVE YEAR GUARANTEE

The McPherson, Style No. 300, Player Piano, as well as all of our pianos, is guaranteed to be constructed throughout of the finest materials that all lumber is thoroughly seasoned, that it is built by experienced piano builders and with wear and tear excepted, it is GUARANTEED FOR TWENTY-FIVE YEARS against defective material or workmanship. We, however, do not guarantee this piano against checking of the varnish or other trouble resulting from extreme heat cold or dampness

Co-operator's Price

$360.00

"McPherson" Player Piano Style No. 280

A MASTER PIECE

Quality of Tone Unequalled. Handsomely Finished Mahogany, Walnut or Oak Case.

The McPherson Player Piano, No. 280, is a magnificent strictly high class instrument, one that you will be proud to own. The case is very massive, is constructed of thoroughly seasoned and selected materials, very finely finished in a handsome mahogany, golden or fumed oak finish. Every part of the McPherson Player Piano has the scrupulous care and attention of the master builder. In mechanical attainment, as in musical qualities, excellence can go no further than the limit reached in this instrument. In design, size, shape, finish and workmanship the McPherson Player Piano conforms in all ways to all accepted standards. It is built along lines demonstrated by the years as the best suited, the best fitted and the best adapted for the purpose, and it is constructed to withstand every test, artistic and mechanical, to which it can be subjected. The McPherson Player Piano is an attractive piece of furniture, designed with extra heavy Colonial trusses and rounded pilasters, substantially constructed throughout. Height, 4 feet 9 inches; length, 5 feet 2 inches; depth, 2 feet 5 inches. Seven and one-third octaves. Three strings in unison and overstrung bass, nickel-plated brackets, double repeating action, pin block made of several layers of hard rock maple, direction of grain of each layer alternating sucessively, full bell metal bronzed plate, bushed tuning pins, convex sounding board, imported wire; genuine ivory keys and Empire Top. A positive governor that will insure perfect tempo control under any and all conditions of pumping and the easiest operating player piano made. Our McPherson Player Piano, No. 280, is a finely built, first class instrument in every respect, and is sure to please you beyond expectations. It is sold with our twenty-five year guarantee against defects, etc., as are all of our pianos. Weight, about 1 000 pounds. Shipped from Chicago factory.

F-4068—McPherson Player Piano, No. 260 ..... $395.00

DIVIDED HAMMER RAIL. GENUINE IVORY KEYS. A POSITIVE GOVERNOR. METAL BRONZED PLATE. DOUBLE REPEATING ACTION.
FIVE POINT FRICTIONLESS MOTOR
GRADUATED LEVER EXPRESSION

$395.00

ALL MATERIAL AND WORKMANSHIP FULLY GUARANTEED FOR 25 YEARS

MANURE SPREADERS "DIRECT FROM FACTORY TO YOU"

"McPHERSON" PLAYER PIANO

STYLE 20-88 NOTE

FULLY GUARNTEED FOR TWENTY YEARS

$315.00

FINISHED
IN
MAHOGANY
GOLDEN OR FUMED
OAK
HEAVY
COLONIAL TRUSSES
AND
PILASTERS
HEIGHT
4 FEET 9 INCHES
LENGTH
5 FEET 2 INCHES
DEPTH
2 FEET 5 INCHES
WEIGHT
BOXED, ABOUT
950 POUNDS

HAS THE FOLLOWING FEATURES
FULL BRONZE PLATE
NICKEL PLATED BRACKETS
DOUBLE REPEATING ACTION
CONVEX SOUNDING BOARD
FIVE-POINT FRICTIONLESS MOTOR
DIVIDED HAMMER RAIL
POSITIVE GOVERNOR ACTION
GENUINE IVORY KEYS
IMPORTED WIRE
EMPIRE TOP

Can Be Played by Anyone

CO-OPERATORS SAVE FROM $75 TO $100

McPHERSON PLAYER PIANO—STYLE No. 20.

Music hath charms for all. If you love music, but cannot play, there is absolutely no reason for being without music in your home, as with our McPherson Player Pianos you can produce any piece nearly as perfect as the greatest genius can play it. CONSTRUCTION OF CASE. Every part of the McPherson Player Piano has the scrupulous care and attention of the master-builder. The cases are as perfect as first-class, carefully selected materials in the hands of efficient, experienced workmen can make them. In mechanical attainment, as in musical qualities, excellence can go no further than the limit reached in this instrument. In design, size, shape, finish and general design the McPherson conforms in all ways to all accepted standards. It is built along lines demonstrated by the years as the best suited, the best fitted and the best adapted to the purpose, and it is constructed to withstand every test, artistic and mechanical, to which it can be subjected. It is finely hand rubbed and polished and finished in a beautiful mahogany or quarter sawed oak finish. The piano is provided with full Empire top. Piano has sliding doors and fold in panels. The cut above shows the player parts concealed by sliding panels, making it look like a regular piano. It is 4 feet 9 inches in height, 5 feet 2 inches in length and 2 feet 5 inches in depth. MECHANISM: Seven and one-third octaves. Three strings in unison and overstrung bass, full bronze plate, bushed tuning pins, nickel plated brackets, double repeating action, pin block made of several layers of hard rock maple, direction of grain alternating successively, convex sounding board, imported wire, genuine ivory keys. Empire top. Five-point frictionless motor. Equalized bleeds. Folding key slip. Divided hammer rail. Fold-in pedals. A positive governor that will insure perfect tempo control under any and all conditions of pumping and one of the easiest operating players made.

GUARANTEED FOR 25 YEARS.

We guarantee that every McPherson Player Piano, Style No. 20, is constructed throughout of the finest materials, that all lumber is thoroughly seasoned, that it is built by experienced piano builders and with wear and tear excepted, it is GUARANTEED FOR TWENTY-FIVE YEARS against defective material or workmanship. We, however, do not guarantee this piano against checking of the varnish or other troubles resulting from extreme heat, cold or dampness. Weight, boxed about 950 pounds. Shipped direct to you from Illinois factory.

F-4049—McPherson Player Piano, Style No. 20..... $315.00

"McPHERSON" PARLOR GRAND PIANO

Finished in Mahogany, Golden or Fumed Oak. Heavy Turned Trusses and Pilasters.

$240.00 STRICTLY HIGH GRADE. GUARANTEED FOR 25 YEARS.

CO-OPERATORS SAVE $50.00

Here is a magnificent, strictly high class instrument, one that you will be proud to own. The case is very massive, is constructed of thoroughly seasoned and selected materials, very finely finished in a handsome mahogany, golden or fumed oak, finish. Every part of the McPherson Parlor Grand Piano has the scrupulous care and attention of the master builder. In mechanical attainment, as in musical qualities, excellence can go no further than the limit reached in this instrument. In design, size, shape, finish and workmanship the McPherson Parlor Grand Piano conforms in all ways to all accepted standards, it is built along lines demonstrated by the years as the best suited, the best fitted and the best adapted for the purpose, and it is constructed to withstand every test, artistic and mechanical, to which it can be subjected. The McPherson Parlor Grand Piano is an attractive piece of furniture, designed with extra heavy trusses and rounded pilasters, veneered mouldings, substantially constructed throughout. Height, 4 feet 9 inches, length, 5 feet 2 inches; depth 2 feet 3 inches. Seven and one-third octaves, three strings in unison and overstrung bass. Nickel plated brackets, Billings brass flange, double repeating action, bell metal bronzed, full plate, bushed tubing pins, pin block made of several layers of quarter-inch quarter-sawed hard rock maple, direction of grain of each layer alternating successively, convex sounding board, imported wire and Empire Top. Our McPherson Parlor Grand Piano is a finely built, first-class instrument in every respect and is sure to please you beyond expectations. It is sold with the following 25 year guarantee: **Guaranteed for Twenty-five years.** We guarantee that every McPherson Parlor Grand Piano is constructed throughout of the finest materials, that all lumber is thoroughly seasoned, that it is built by experienced piano builders and with wear and tear excepted, it is GUARANTEED FOR TWENTY-FIVE YEARS against defective material or workmanship. We, however, do not guarantee this piano against checking of the varnish or other troubles resulting from extreme heat, cold or dampness. Weight about 900 pounds. Shipped direct to you from Illinois factory.

F-4048—McPherson Parlor Grand Piano $240.00
Extra for Genuine Ivory Keys 9.00

"McPHERSON" EMPIRE GRAND PIANO

$215.00 An Uncomparable Value.

MAHOGANY, GOLDEN OR FUMED OAK FINISH. COLONIAL TRUSSES AND PILASTERS. PAY CASH AND SAVE $30.00.

The McPherson Empire Grand Piano is manufactured, as are all of our pianos, in one of the oldest and largest piano factories in the United States, by a firm who have been manufacturing pianos for years and who have a reputation for producing pianos of tone, touch, action and finish that are the equal of any high priced piano on the market, regardless of the price you have to pay for them. We know what other houses are asking for the same grade of a piano, and our prices are so much lower that there is no comparison. We ask you to compare the description of our McPherson Empire Grand Piano with any other similar pianos and you are sure to be convinced that the above statements are true. This piano is constructed in the same factory and by the same workmen as all of the very highest priced pianos sold by us and you can rest assured that if you decide to order our McPherson Empire Grand Piano that it will give you complete satisfaction in every way. The Action of the McPherson Empire Grand Piano is particularly responsive to the touch, so that every stroke upon the key is registered with absolute precision and with extreme promptitude. It repeats with that fidelity which the musician requires. None but the highest grade materials enter into it. High grade felt hammers, dependable bushing to prevent the slightest rattle, and perfect adjustment of its various parts make of it all that can be desired. The Scale, seven and one-third octaves of keys (88 keys in all), is accurately and scientifically made of the best material. The case is constructed of well seasoned and selected stock and beautifully finished in a handsome mahogany or selected quartered oak. It is hand rubbed and highly polished. Has heavy and artistic colonial trusses and pillars. Height, 4 feet 6 inches; length, 5 feet 2 inches; depth, 2 feet 3 inches. Seven and one-third octaves. Three strings in unison and overstrung bass, full bronzed plate, bushed tuning pins, nickel plated brackets, double repeating action, pin block made of several layers of hard rock maple, direction of grain alternating successively, convex sounding board, imported wires and Empire top. Our McPherson Empire Grand Piano is sold with the following 25 year guarantee: **Guaranteed for 25 Years.** We guarantee that every McPherson Empire Grand Piano is constructed throughout of the finest materials, that all lumber is thoroughly seasoned, that it is built by experienced piano builders and with wear and tear excepted, is GUARANTEED 25 YEARS against defective material or workmanship.

Guaranteed For Twenty-five Years.

We, however, do not guarantee this piano against checking of the varnish or other troubles resulting from extreme heat, cold or dampness. Weight about 850 pounds. Shipped direct from Illinois factory.

F-4047 McPherson Empire Grand Piano $215.00
For Genuine Ivory Keys, add 9.00

"McPherson" Colonial Grand Piano

$235.00 STRICTLY HIGH GRADE GUARANTEED FOR 25 YEARS

Material and Workmanship Unexcelled. Massive and Handsome Mahogany, Walnut or Oak Finish

30 DAYS FREE TRIAL
We take all the risk

Our McPherson Upright Colonial Grand is the last word in piano building. This instrument contains every scientific point and essential device known to the piano builders art. Everything is of the best and the very classiest obtainable. It is strongly constructed of the very best of material throughout, finished in genuine mahogany, selected quarter-sawed oak or fancy burl walnut. Extra hand polished finish throughout. Large one-piece Empire top. The tone of the McPherson Upright Colonial Grand Piano is exquisite, being clear, mellow and well sustained. The keys are of genuine ivory. The black keys are enameled and highly polished. This piano, as well as all of our pianos, is guaranteed for twenty-five years against defective materials, etc. You take absolutely no risk whatever in buying a piano from us, as it is not only guaranteed by the manufacturer, a very reliable and perfectly responsible firm, but also by ourselves. The height of the McPherson Colonial Grand is 4 feet 9 inches; length, 5 feet 2 inches; depth, 2 feet 3 inches. Seven and one-third octaves, three strings in unison and overstring bass. Nickel plated brackets. Billings brass flange, double repeating action, Bell Metal bronzed, full plate, bushed tuning pins; pin block made of several layers of quarter inch, quarter sawed hard rock maple, direction of grain of each layer alternating successively, convex sounding board, imported wire and Empire top. Has genuine Ivory Keys. Shipping weight about 900 pounds. Shipped from Chicago Factory.

F-4065 McPherson Upright Colonial Grand Piano **$235.00**

OUR TWENTY-FIVE YEAR GUARANTEE

The McPherson Colonial Grand Piano, as well as all of our pianos, is guaranteed to be constructed throughout of the finest materials; that all lumber is thoroughly seasoned, that it is built by experienced piano builders and with wear and tear excepted, it is GUARANTEED FOR TWENTY-FIVE YEARS against defective material or workmanship. We, however, do not guarantee this piano against checking of the varnish or other troubles resulting from extreme heat, cold or dampness.

"McPherson" Cabinet Grand Piano

FEATURES:
GENUINE IVORY KEYS
EMPIRE TOP
CARVED TRUSSES AND PILASTERS
FULL BELL METAL BRONZE PLATE
FULLY GUARANTEED FOR 25 YEARS
DIRECT FROM FACTORY PRICES
SAVE OUR COOPERATIVE MEMBERS FROM $50.00 TO $100.00 ON EVERY PIANO

$295.00 PRICE TO CO-OPERATIVE MEMBERS

30 DAYS FREE TRIAL

GUARANTEED PERFECT

In this beautiful instrument we believe that we are showing the height and extent of real elegance in design and finish as well as the extreme of accuracy in tone, tone and musicianly qualities. There is not a cheap feature about our Cabinet Grand, and no Piano may be better built or give greater pleasure to its owner no matter what price may be paid for it; and, under ordinary methods of commerce, any dealer would be [illegible] of similar style, design and artistic merit. This [illegible] hand [illegible] and [illegible] case is substantially constructed and double veneered in genuine mahogany, or selected quarter-sawed oak, as you choose. Height, 4 feet 9 inches; [illegible] Seven and one-third octaves. Three strings in unison and overstring bass, nickel-plated brackets, double repeating action, full bell metal bronzed plate, bushed tuning pins, pin block made of several layers of hard rock maple, direction of grain alternating successively, convex sounding board, imported wire and Empire top. Genuine Ivory Keys. Fully guaranteed for twenty-five years. Weight, boxed for shipment, 1000 pounds. Shipped direct to you from Chicago Factory.

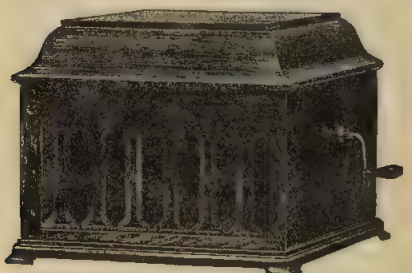
F-4066-McPherson Cabinet Grand Piano **$295.00**

Metropolitan Phonographs

One of our greatest Philosophers has said: "Let me write the Songs of a nation, and I care not who makes the laws." Music has been one of the chief pleasures of man since the dawn of civilization. No home is complete without music of some kind, and the latest developments in phonographs has placed the best music within the reach of every one. The machine we offer is the result of patient effort and careful research on the part of competent men, and we believe it to be the best that can be obtained. We have noted the defects in the older talking machines, and have been successful in overcoming many of them. The fibre back of our sound box does away entirely with the "rumbling" on high notes, and reduces "scratching" surface sound to a minimum. Our full bell shaped horn, extending from the exact center of Cabinet to the front, being constructed entirely of wood, insures a beautiful deep tone, and overcomes the obnoxious phonograph swang so prominent in many of the older machines. We have the volume sufficient for any occasion, and have not detracted from the quality of reproduction to obtain it.

Our adjustable sound box enables you to play any make of disc record, Victor, Columbia, and all other lateral cut records in the vertical position and our Paramount records, Edison, Pathe and all other makes in the horizontal position. The position is changed by means of a thumb screw, and is a simple operation, quickly accomplished. Each machine comes equipped with Jewel Point for Edison records, Sapphire Ball Point for Pathe, and one package each half-tone and full tone steel needles for Victor, Columbia and Paramount records.

Our motors are the best that can be obtained; strong, double spring, and perfectly adjusted to do away with vibration and consequent noise. Our Tone Modulator is simple in construction and perfect in operation, reducing the volume without changing quality of tone. METROPOLITAN PHONOGRAPHS ARE MADE IN FIVE DIFFERENT MODELS. THE SAME HIGH GRADE CONSTRUCTION IS USED THROUGH-OUT, AND EVERY ONE IS GUARANTEED AGAINST DEFECTS IN MATERIAL AND CONSTRUCTION AND TO SATISFY AND PLEASE YOU IN EVERY WAY



Metropolitan MODEL V.

Genuine Mahogany
Quarter Sawed Golden Oak
Quarter Sawed Fumed Oak

The Metropolitan Model V is finely finished in Genuine Mahogany, as shown in illustration, or of Quartered Sawed Oak finished in a rich Golden or Beautiful Dull Varnish finish. All metal parts are heavily nickel plated. Double strong motor; can be wound while playing. Regular Metropolitan Arm and Sound Box, taking steel, tungsten or fibre needles, jewel or diamond points. 12 inch turn-table felt lined, full bell center wooden horn. Tone Modulator to regulate volume of sound. Plays any disc record and produces the full volume and purity of tone of which any record is capable. Dimensions are 18½ inches high, 16¾ inches wide and 18¼ inches deep. Equipped complete with one Jewel Point Needle, one Sapphire Ball Point Needle and one package each of half-tone and full tone steel needles. Shipping weight about 40 pounds. Carefully crated and shipped direct to you from Wisconsin factory.

P-4022—Metropolitan Model Phonograph ..... $

Metropolitan Model VI.

$64.00

var s finish. All metal parts heavily nickel plated. Regular Metropolitan tone reproducer and box, taking fibre, steel or tungsten needles, jewel or diamond points. Full bell center wooden horn giving a volume and quality of tone equal to much larger machines of other makes. Double spring worm gear motor; very smooth in operation; can be wound while playing twelve inch turntable. Tone modulator enables you to regulate volume of scratch, loud or soft. Stands 42½ inches high, is 19½ inches wide and 21 inches deep. Has a roomy four album record compartment, conveniently arranged and furnishing absolute protection for records. Plays Edison, Columbia, Victor, Paramount, Emerson or any disc record. **With each Metropolitan Model VI, we furnish Free: 3, 9½ in Paramount records (any selection, see following pages for list) one Jewel pointed needle, one Sapphire Ball Point and one package each of half tone and full tone steel needles.** Complete guarantee of satisfaction with each machine. Shipping weight about pounds. Carefully crated and shipped direct to you from Wisconsin factory.

F-4024—Metropolitan Model VI Phonograph $64.00

Metropolitan MODEL VI.

$64.00 THREE PARAMOUNT 9½ IN. DOUBLE DISC RECORDS **Free**

Here is a wonderful machine at a wonderfully low price. Our Metropolitan Model VI is a perfect floor Cabinet of graceful lines. Genuine Mahogany or Quartered Sawed Oak, either golden or fumed in a beautiful dull

METROPOLITAN MODEL VII

$77.50

FREE

With each Metropolitan Model VII we furnish

Five—9½ inch Double Records

Height 44⅜ inches Width 21 inches

Depth 22¼ inches.

PLAYS

Edison, Victor, Paramount, Columbia, Pathe, Emerson, or any Disc Record Made.

Tone Modulator

All Metropolitan Phonographs are furnished with our Special Tone Softeners, which provides perfect modulation without "choking" the sound.

Uses Fibre, Steel or Tungsten Needles, Jewel or Diamond Point.

Regulation Brake and Speed Control.

Has Large Roomy Record Cabinet with Numbered Vertical Record Rack.

Unexcelled Piano Finish in Genuine Mahogany, Quarter Sawed Golden Oak, or Quarter Sawed Fumed Oak.

Each Machine Is Covered by Our Guarantee of Complete Satisfaction.

Metropolitan Model VII is a handsome and prettily designed, full size cabinet, elegantly finished in genuine mahogany, as shown in illustration, or can be furnished in genuine quarter sawed oak, golden or fumed finish; beautifully polished by hand. This cabinet is the equal of many cabinets furnished on machines which cost $100.00 and upwards. Cabinet is 44¾ inches high, 21 inches wide and 22½ inches deep. It is equipped with our regular Metropolitan tone arm and sound box, taking steel, tungsten or fibre needles, jewel or diamond point. Has patented automatic record stop. Full bell center wooden horn producing a full clear, rich tone of which any disc record is capable. Plays Edison, Victor, Paramount or any disc record. All steel parts heavily nickeled plated. Exceptionally strong, double spring motor perfectly adjusted and practically silent; can be wound while running. Twelve inch turntable, green felt lined. Tone Modulator to regulate volume of sound. With each machine we furnish **free**—five, 9½ inch Paramount Double records, one Jewel point Needle, one Sapphire Ball Point Needle, and one package eachof half tone and full tone steel needles. Guarantee of complete satisfaction covers each machine. Carefully crated and shipped direct to you from Wisconsin factory. Shipping weight about 145 pounds.

F-4025—Metropolitan Model VII Phonograph..... .....**$77.50**

METROPOLITAN MODEL VIII

FREE!
with each machine:
Six 9½ in. double records.

$99.00

FREE

SIX
9½ inch Double Disc Records

BUILT LIKE A VIOLIN.

Has An All Wood Sound Box Which Insures a Perfectly Clear and Vibrant Tone.

Height 47 inches. Width 22¼ inches. Depth 24 inches.

PLAYS
Edison, Victor, Pathe, Columbia, Paramount or any Disc Record made.

For beauty of tone, Clearness of reproduction, smoothness of operation and massiveness of construction, we say our Model VIII is unequalled by any machine selling for less than $100.00.

Our **Model VIII** design is sure to appeal to you. Massively constructed along graceful lines, handsome wood, finished like a violin, beauty of tone and clearness of reproduction—these are some of the points of superiority in this model. The cabinet is built of genuine mahogany or quarter sawed oak; golden or fumed finish, hand polished. A beautiful, impressive cabinet that will ornament any home, and that cannot be duplicated in any market for our price. Unequalled workmanship and finish; hand carved parts harmonizing with beautifully designed grill. All metal parts heavily nickel plated. Regular Metropolitan Tone Arm and Sound Box; full bell center wooden horn, a truly wonderful producer of music. Powerful double spring motor; perfectly adjusted and noiseless. Patented Automatic Stop Record. Tone modulato to regulate volume and equipped with numbered vertical record rack, convenient and furnishing absolute protection for records. With our Model VIII, we include Free—six, 9½ inch double disc Paramount records and one Jewel point, one Sapphire ball point, one package half tone and full tone needles. Shipping weight about 155 pounds. Each machine is carefully tested, crated and shipped direct to you from Wisconsin factory.

F-4026—Metropolitan Model VIII Phonograph..... **$99.00**

GUARANTEE

Metropolitan Talking Machines are guaranteed against defects in material, workmanship and construction, and to satisfy and please you in every way.

METROPOLITAN MODEL IX

$139.50

FREE

SEVEN
9½ Inch Double Records

PLAYS
Victor, Edison, Columbia, Pathe, Paramount or any Disc Record Made

Height, 49½ inches
Width, 23 inches
Depth 24½ inches

Every Machine Is Guaranteed To Give Complete Satisfaction.

Model IX is a massive piece of furniture, beautifully designed and perfectly proportioned; unequalled workmanship and finish. Heavy hand carved posts, elaborately scrolled grill. The cabinet is hand finished in genuine mahogany of exquisite grain or of selected quarter sawed oak finished in a rich golden or fumed finish. Trimmings are in perfect harmony with cabinet. All metal parts are heavily nickeled. Regular Metropolitan Tone arm and sound box. A powerful and extra quiet durable spring motor, of great strength and perfect adjustment; can be wound while running. Each machine is equipped with our patented automatic record stop. Has 12-inch turntable, faced with green felt. Lower cabinet is equipped with numbered vertical record rack, very convenient and furnishing absolute protection for records.

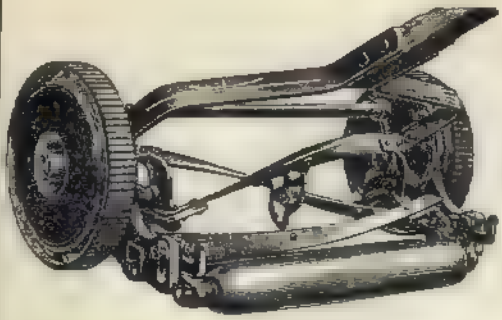
The cabinet is 49½ inches high, 23 inches wide and 24½ inches deep. Crated ready for shipment, weighs 175 pounds. The tone modulator "a special feature of all our machines" regulates the volume of tone. Each machine is equipped with our patented be l shaped elongated wood horn, which completely removes the metallic sound, so often heard in ordinary phonographs, and improves the resonance of an inferior record. Its capacity for softening and sweetening all records is marvelous. With each Model IX phonograph we furnish **free**—seven, 9½ inch double disc records, one Sapphire ball point, one Jewel point, one package half tone and one package full tone needles. Each machine is carefully crated and shipped direct to you from factoryin Wisconsin. Satisfaction and safe delivery guaranteed.

F-4027—Metropolitan Model IX Phonograph.....**$139.50**

LAWN MOWERS

Prices on Request

LIBERTY



Blades—Three Crucible Tool Steel. Hardened and Tempered.

Wheels—8 inches Diameter. Solid Center

Bottom Knife—Spring Steel. Hardened and Tempered.

Castings—Are Machined to Accurately Fit the Mower, Insuring Noiseless Action, Easy Pushing and Smooth Cutting. Broken or Worn Parts May Be Easily Replaced.

In Manufacturing the Majority of Low Priced Lawn Mowers no Thought is Given to the Quality of the Machine the Object Simply Being to Make it Sell for a Cheap Price, With the Result You Have the Most Expensive Mower You Can Buy, as Usually they Last but a Few Weeks

The "Liberty" is Different. It is Made of the Best Material and By Skilled Labor.

8-Inch Wheels. 3-Inch, Three-Blade Cylinder.

Width of Cut, Inches	10	12	14	16	18
Weight, Boxed, Including Handle, Pounds	37	39	41	43	46
Each	---	---	---	---	---
	---	---	---	---	---
Code Word	Lare	Leon	Lobe	Liga	Lumo

LAWN TRIMMERS

PENNSYLVANIA BALL BEARING

Pennsylvania, Ball Bearing

Made to Meet the Demand for a Serviceable Tool to Take the Place of Grass Shears and Other Devices for Cutting the Grass Left at the Edge of Lawns After Mowing.

Will Cut to Within ¾ of an inch of Wall or Tree Trunk, and Mow Any Border Wide Enough to Run One Wheel On.

Crucible Tool Steel in Both Cylinder and Stationary Blades. Self-Sharpening. Ball Bearings with Patented Pennsylvania Adjustment. Built for Service and Long Life. Light Running. Easy to Handle.

8-Inch Drive Wheel. 5½-Inch, Four-Blade Cylinder

Width of Cut, Inches	6
Weight, Boxed, Including Handle, Pounds	26
List Price, Each	$12.00

Code Word — Trune

PENNSYLVANIA UNDERCUT

Pennsylvania, Undercut

The Unique Construction of the Undercut Trimmer Permits Cutting, Not Only Close Up to a Wall, Fence, Tree, Etc., but it **Will Get the Grass Under a Fence** or Rock-Cut Base of Tomb Stones, House Foundations, and Other Places Hitherto Out of Reach of Anything but Hand Shears. The Slanting Side Plate and Conical Cylinder Make it Possible to Cut All Grass Left by the Regular Style of Lawn Mower.

9½ inch Drive Wheel. Four-Blade Cylinder.

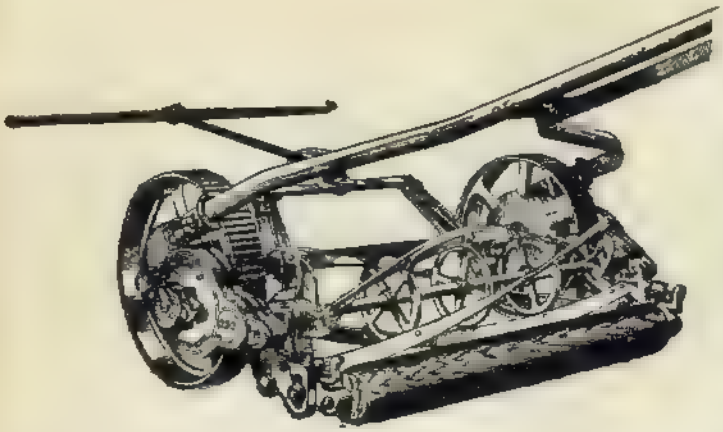
Width of Cut, Inches	5½
Weight, Boxed, Including Handle, Pounds	32
Each	$12.00

Code Word	Uncut

PONY LAWN MOWERS

PENNSYLVANIA

Prices on Request



Blades—Crucible Tool Steel, Oil Hardened and Water Tempered
Wheel Base—Extreme Width, 35 inches
Wheels—Broad Tread. 11 inches Diameter
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service

This Machine Bridges the Space Between Our 21-inch Hand Mowers and the Regular Horse Sizes, Combining the Strength of the Latter with the Mobility of the Former. Making it Especially Useful on Large Lawns Where the Surface is Broken by Walks and Shrubbery, or is Too Hilly for a Regular Horse Mower. Can be Handled by Two Men Where a Horse is Not Available. The Four-Blade Machine is Fitted with the Enos Yielding, Self-Sharpening Lower Knife, Double Train of Gears, Extra Heavy Blades and Large Cylinder, Fitting it For Use in High Grass. **The Six-Blade Machine has the Upturned Lower Knife,** Making it Unrivalled for Fine Lawns and Golf Greens.

Fitted with Lugs to Attach the Braun Grass Catcher. Will Cut to Within ½ inch of Ground.

FOUR-BLADE, 6¼-INCH CYLINDER	
Width of Cut, Inches	25
Weight, Boxed, Including Handle, Pounds	150
List Price, Each	$60.00

Code Word	Pongo

SIX-BLADE, 6¼-INCH CYLINDER	
Width of Cut, Inches	25
Weight, Boxed, Including Handle, Pounds	160
List Price, Each	$60 00

Code Word	Ponia

HORSE LAWN MOWERS (PENNSYLVANIA)

THE STANDARD

Blades—Crucible Tool Steel, Oil Hardened and Water Tempered

Gears—Fitted with a Train of Gears, the Main Drum Shaft Running in Bronze Bushings. Easily Replaced in Case of Wear

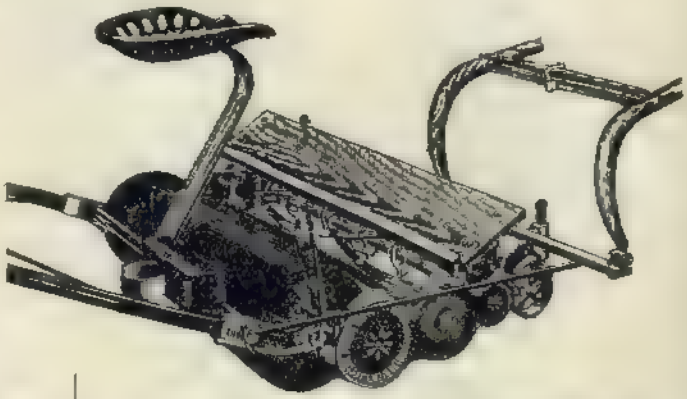
Extreme Width Over All—30-inch Cut, 37 inches. 38-inch Cut, 44 inches.

Rollers—Double, 11 inches diameter.
30-inch Cut, 26 inches Wide.
38-inch Cut, 34½ inches Wide.

Parts—Malleable and Cast, Accurately Machined and Fitted

Bottom Knife—Self-Sharpening. Improved, Upturned Pattern. Crucible Tool Steel.

Side Draft Attachment—Permits Horse Walking on Cut Grass. (See Illustration.)



FITTED WITH HANDLES AND DRAFT IRONS ONLY

7-Inch Cylinder. 30-Inch Cut

		List Price, Each		
No. 1—4 Blades. Code Word	Wt., Bxd., 360 Pounds.	$100.00 Pentagon	----	----
No. 2—6 Blades. Code Word	Wt , Bxd., 370 Pounds.	112.50 Pentice	----	----

7-Inch Cylinder. 38-Inch Cut

		List Price, Each		
No. 4—4 Blades Code Word	Wt., Bxd., 400 Pounds.	$130.00 Penumbra	----	----
No. 5—6 Blades Code Word	Wt., Bxd., 410 Pounds	142.50 Pendulum	----	----

HANDLES, SHAFTS, SEAT AND FOOTBOARD

Complete Equipment, as Illustrated:

7-Inch Cylinder. 30-Inch Cut

		List Price, Each		
No. 11—4 Blades. Code Word	Wt., Bxd., 400 Pounds.	$120 00 Pension	----	----
No. 12—6 Blades. Code Word	Wt., Bxd., 410 Pounds.	132.50 Puritan	----	----

7-Inch Cylinder. 38-Inch Cut

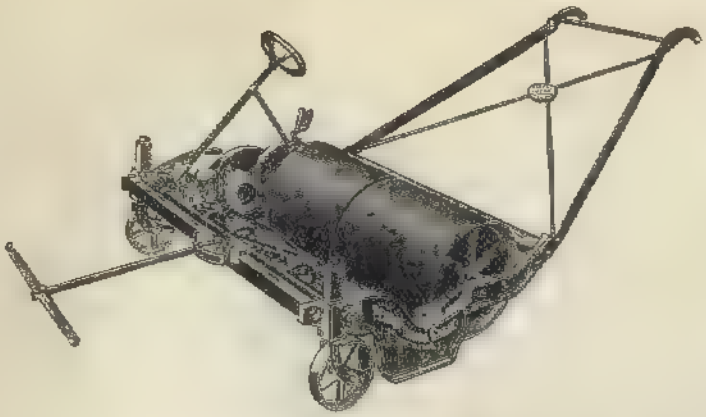
		List Price, Each		
No. 14—4 Blades. Code Word	Wt., Bxd., 450 Pounds.	$150.00 Penstock	----	----
No. 15—6 Blades Code Word	Wt , Bxd., 460 Pounds.	162.50 Puncheon	----	----

Note.—Use Code Word When Ordering.

HORSE LAWN MOWERS

PENNSYLVANIA GRAND

Prices on Request



Blades—Crucible Tool Steel, Oil Hardened and Water Tempered. Extra Wide.
Gears—Extra Large Fitted with Bronze Bushings. Easily Replaced in Case of Wear.
Extreme Width—30-inch Cut, 41 inches Over all.
Extreme Width—38-inch Cut, 49 inches Over all.
Double Rollers—15 inches in Diameter
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service.
Bottom Knife—Self-Sharpening. Raised Lip or Upturned Edge Style. Crucible Tool Steel.
Cylinder Adjustment—All Wear on Either Revolving or Stationary Knives is Taken Up By a Pair of Set Screws on The Top of the Cylinder Journal Boxes, Allowing the Cylinder to Drop on the Stationary Knife Which is Rigidly Bolted and Remains Fixed in Place. The Cylinder Journals Run in Phosphor Bronze Boxes, and These Are Split So That All Wear Can be Taken Up by a Set Screw. The Journal Box is Floating or Self-Aligning.
Height of Cut—¾ to 2¾ inches.

FITTED WITH HANDLES AND DRAFT IRONS ONLY

15-Inch Rollers. 7½-Inch Cylinder. 30-Inch Cut

		List Price, Each		
No. 101 4 Blades	Weight, Boxed 595 Pounds. Code Word, Graduate	$100 00	-----	-----
No. 102—6 Blades	Weight Boxed 695 Pounds. Code Word, Graduation	112 50	-----	-----

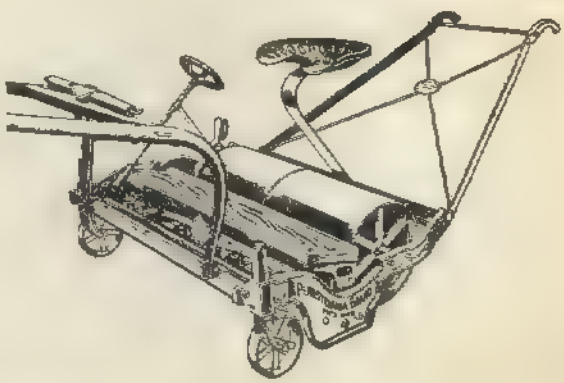
15-Inch Rollers. 7½-Inch Cylinder. 38-Inch Cut

No. 104—4 Blades	Weight, Boxed, 675 Pounds. Code Word, Gymnast	$130 00	-----	-----
No. 105—6 Blades	Weight, Boxed, 705 Pounds Code Word, Gymnasium	142 50	-----	-----

Note.—Use Code Word When Ordering

Cutting Adjustment—The Wheel at the Right of the Driver's Seat Regulates the Height of Cut from ¾ to 2¾ inches. The Operator, Without Leaving His Seat, Can Instantly Change From Low to High Cut, or an Intermediate One

Note — The Two Pennsylvania Grand Mowers Shown Here are Alike, Excepting the Equipment. The Cut on Page 20 Illustrates the Machine Fitted with Handles and Draft Irons only. This Cut Shows the Machine with Complete Equipment



HANDLES, SHAFTS, SEAT AND FOOTBOARD COMPLETE

15-Inch Rollers. 7½-Inch Cylinder. 30-Inch Cut.

		List Price, Each		
No. 111—4 Blades.	Weight, Boxed, 635 Pounds. Code Word, Gondola	$120.00	-----	-----
No. 112—6 Blades.	Weight, Boxed, 645 Pounds. Code Word, Gondolier	132.50	-----	-----

15-Inch Rollers. 7½-Inch Cylinder. 38-Inch Cut.

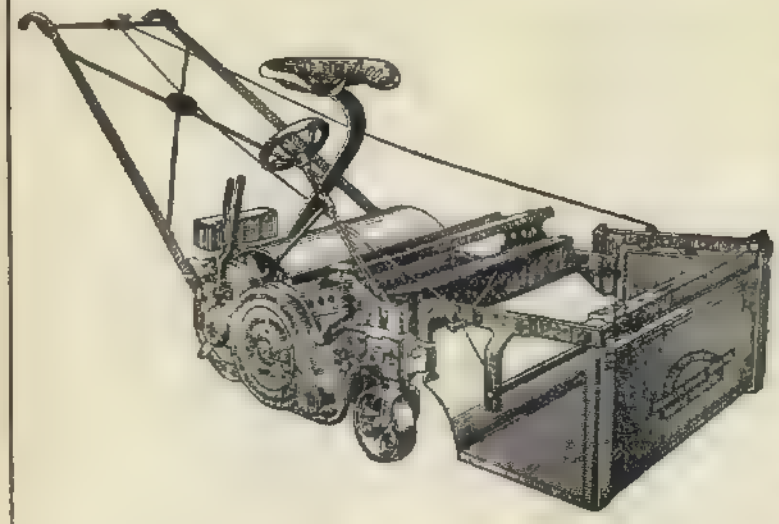
No. 114—4 Blades.	Weight, Boxed, 720 Pounds. Code Word, Generate	$150.00	-----	-----
No. 115—6 Blades.	Weight, Boxed, 750 Pounds. Code Word, Generation	162.50	-----	-----

Note.—Use Code Word When Ordering

GRASS BOXES

Prices on Request

NEW BRAUN



This Catcher is Radically Different From Other Grass Collectors, and is Extremely Simple to Attach and Operate. Instead of Dumping the Grass by Lifting the Box, the Movable Side is Pulled by a Wire Cord and Shoves the Grass Out the Side, Either Right or Left.

The Shield Sets Closely in Back of the Cylinder to Deflect the Grass Forward and Into the Box.

This Catcher Can Be Used on the Mower Fitted with Handles and Draft Irons Only, or on the Complete Machine with Side Draft for Shafts.

Always State for Which Mower Box is Wanted, Pennsylvania or Pennsylvania Grand.

For 30-Inch Mowers, List Price, Each	$20 00	**For 38-Inch Mowers,** List Price, Each	$30 00
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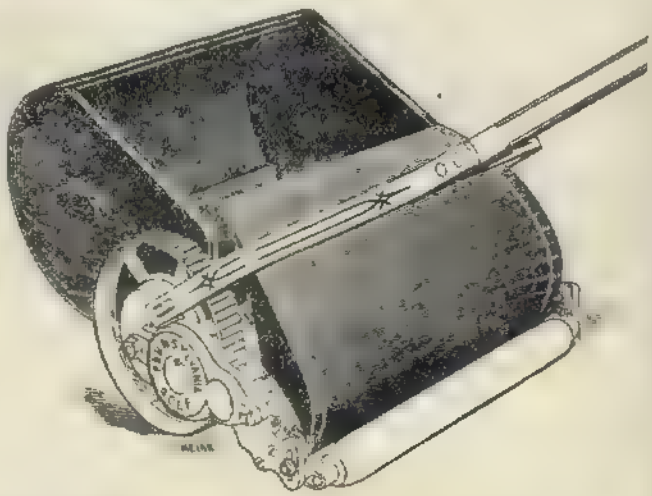
FOR GOLF AND PUTTING GREENS MOWERS

These Catchers are Composed of Two Parts—the Box Proper and the Shield or Deflector, to Deflect the Grass Forward Into the Box.

They are Made of Sheet Metal, with Wood Ends, and are Easily Attached and Detached

For Use Only on Pennsylvania Golf, and Pennsylvania Putting Greens Mowers. (Page 599) **When Ordering Always State for Which Mower Box Is Wanted.**



PENNSYLVANIA GOLF

Size Inches.....	14	16	18	17	19	21
List Price, Each..	$4 25	4.50	4.75	4.75	5 00	5.25
	---	---	---	---	---	---
	---	---	---	---	---	---

PUTTING GREENS

Size, Inches	12	14	16	18
List Price, Each	$4 00	4.25	4 50	4 75
	---	---	---	---
	---	---	---	---

One in a crate.

PLANET JR. GARDEN TOOLS

FIRE-FLY PLOW

Owners of small gardens will find this tool indispensable. It will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep—or still deeper if gone over twice. Furrows for manure or seeds may be opened and covered. This tool will enable a busy man to do in his spare time all the work of a large family garden. Chicken raisers find it of great advantage in plowing up their scratching yards.

Weight, lbs 13
Each .....

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDER

This new tool is especially adapted for preparing the seed bed. After the ground has been plowed with the wheel hoe plow or spaded, this pulverizer will be found of great value in smoothing and fining the surface of the soil, putting it in the best possible condition for the seed planter. It is more thorough and rapid in its work than an ordinary garden rake, thoroughly pulverizing lumpy soil. Use like a carpet sweeper or vacuum cleaner with sufficient pressure to cut the lumps and thoroughly pulverize the soil. The rear blade cutting 13½ inches levels the ground perfectly. After the crops are started it may be used between the rows as a weeder or as a crust breaker, leaving a fine mulch. It is a great tool for the small garden, while the vegetable grower will find many uses for it, especially under the laterals in overhead irrigation. Works equally well both forwards and backwards.

Weight, lbs 10
Each .....

EXTRAS FOR PLANET JR. HAND MACHINES

Planet Jr. seeders and wheel hoes have been in successful use so many years we get many calls for wearing parts. If anything not named below is wanted send for special repair circular, giving the name and number of the tool.

Hoes—S100 and S101. For cast or steel frames. Supersede C & D1 and C11 & D11. New and very well liked. Two sizes only, 4½ and 6-in. C & D1 for cast frame wheel hoes. C11 & D11 for steel frames. Made in four widths. Cutting 4½, 6, 7 and 8-in each.

Disc Hoes—Are valuable as weeders and pulverizers.

Cultivator Teeth—No. 1395. Fit combined seeders and double and single wheel hoes.

Narrow Cultivator Teeth—No. 2775. These work particularly well in hard soil.

Plows—For single wheel hoes. 107X for cast frames, 1758X for steel frames.

Plows—For double wheel hoes. 116X and 117X for cast frames, 1771X and 1772X for steel frames.

Three-Prong Cultivator Teeth—For fine, deep work.

Double Mouldboard Plow—It can be set to furrow wide or narrow, or to hill much or little. Width at widest, 14 in; narrowest, 10 in. With connecting piece for double wheel hoes and No. 25.

Wheel Hoe Sweeps— Sold in sets of three: one 4-inch, one 8-inch and one 10-inch, with standard for single wheel hoes. In sets of four: two 4-inch and two 8-inch, with two standards for double wheel hoe.

Rakes—Made in three sizes: three-tooth, five-tooth and seven-tooth.

Part	Weight lbs	Weight ozs
4½-inch hoes for cast frame; C/D1 standards, 552/553 hoes, No. 109X L. H., 108X R. H.	1	12
4½-inch hoes for steel frame; C11/D11 standards, 552/553 hoes, No. 1766X L. H., 1767X R. H.	2	..
4½-inch hoes (improved), for cast or steel frame; S100/101 standards, 4059/4060 hoes, No. 4404X L. H., 4405X R. H. (Will take place of 109X, 108X, 1766X and 1767X)	1	14
6-inch hoes for cast frame; C/D1 standards, 1092/1093 hoes, No. 46X L. H., 47X R. H.	1	14
6-inch hoes for steel frame; C11/D11 standards, 1092/1093 hoes, No. 1756X L. H., 1757X R. H.	2	2
6-inch hoes (improved) for cast or steel frame; S100/101 standards, 4061/4062 hoes, No. 4402X L. H., 4403X R. H. (Will take place of 46X, 47X, 1756X and 1757X)	2	..
7-inch hoes for cast frame; C/D1 standards, 1700/1701 hoes, 449X L. H., 450X R. H.	2	..
8-inch hoes for cast frame; C/D1 standards, 997/998 hoes, 436X L. H., 437X R. H.	2	..

Part	Weight lbs	Weight ozs
Cultivator teeth, regular, No. 1395, all steel, each		7
Cultivator teeth, narrow, No. 2775, all steel, each		7
3-prong cultivator teeth, Nos. S42, S43, pair	2	8
Wheel hoe sweeps for single wheel hoes, set	2	..
Wheel hoe sweeps for double wheel hoes, set	3	..
Disc hoes for single and double wheel hoes, Nos. 1391X and 1392X, pair	5	10
Plows for single wheel hoes, No. 107X for cast frame, No. 1758X for steel frame, each	2	8
Plows for double wheel hoes, Nos. 116X, 117X for cast frame, Nos. 1771X, 1772X for steel frame, each	2	14
Double moldboard plows, No. 378X, each	2	8
Rakes, 3-tooth, No. S24, pair	1	4
Rakes, 5-tooth, No. S25, pair	1	14
Rakes, 7-tooth, No. S26, pair	2	8
Rakes, 9-tooth, left and right hand, Nos. S54, S55, pair	6	4
Spinach cutter (not illustrated), No. 4077X, each	1	14
Onion harvester, 6-inch (not illustrated), No. 423X, each	1	8
Onion harvester, 8-inch (not illustrated), No. 817X, each	1	9

PLANET JR. GARDEN TOOLS

No. 1

COMBINED DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW

This combination drill was designed expressly for garden farming. It is changed from a drill to its other uses by removing two bolts, when hoes, cultivator teeth or plows can be quickly attached.

The seed is sown in a straight line, the covering being done by flanges on the wheels. Adjustments for sowing different seeds or for plowing, cultivating and rolling are quickly made. The 6-inch hoes are of a shield shape, permitting work being done close to the rows without danger of injuring the plants. Hoes can be changed from side to side and the plants worked closer and deeper or shallow. The names of the principal seeds are stamped on the index. The opening plow is directly between the wheels.

Equipped with one pair 6-inch hoes, three cultivator teeth, one large garden plow and one marker.

No.	1
Hopper capacity, pints	8
Weight, lbs.	44
Each	

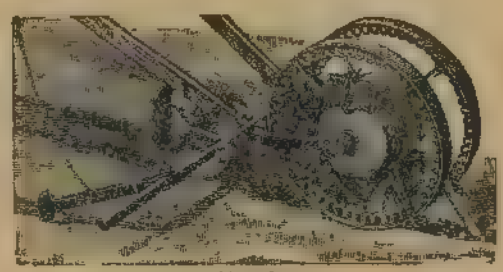
DRILL SEEDER ONLY

All varieties of garden seed can be sown with this machine and it is especially adapted to sowing small seeds shallow, as the plow is directly between the wheels. This implement is almost identical with Planet Jr. No. 1 Combined Drill, but is larger, holding twice as much seed.

Marker can easily be changed from side to side from between the handles. The clearing finger is very useful among stones, roots, trash, etc.; lower than the plow, it leaves a clear track.

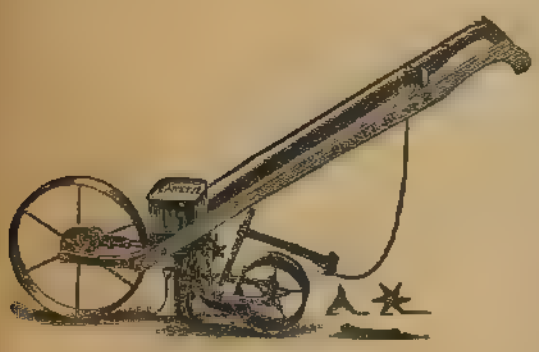
The flow of seed is instantly stopped when wheeling around on the roller. Shields over the discharge openings make the flow of seed regular.

No.	2
Description	Drill Seeder only
Weight, lbs.	38
Each	



No. 2

HILL AND DRILL SEEDERS



Nos. 3 and 5

This seeder has long been recognized as the most perfect hand seed drill for market gardeners and seed men. It will sow evenly in drills and can be adjusted to drop in hills 4, 6, 8, 12 or 24 inches apart. A convenient lever, enables the operator to throw it out of gear immediately and by pushing down the feed rod the flow of seed may be stopped instantly. No time is lost and no seed is wasted. Can be quickly set to sow the different kinds of seeds in the exact thickness required.

The plow is adjustable and plants in a narrow line. Coverers can be adjusted to throw the proper amount of dirt on the seed. Drag bar is adjustable from 6 to 20 inches. No. 3 has a 15-inch steel wheel and No. 5 has a 16½-inch steel wheel.

Nos.	3	5
Hopper capacity, quarts	3	5
Weight, lbs.	46	51
Each		

Note—These tools are identical, with exception of size of wheels and capacity of hoppers.

PLANET JR. GARDEN TOOLS

COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW

No. 4

In a single implement this tool combines a first-class hill dropping seeder, a single wheel hoe or weeder, a cultivator, a furrower and a plow. Will sow in a continuous row or seed can be dropped in hills 4, 6, 8, 12 or 24 inches apart.

By removing one bolt the drill is detached and the tool frame substituted. It then becomes a single wheel hoe. The small farmer can do practically all the work in his small crops with this one implement.

On the right side of the hopper in plain view of the operator is the index, on which are stamped the names of the principal seeds. It indicates the quantity and is quickly regulated.

Equipped with one pair 6-inch hoes; three cultivator teeth and extension piece for hoeing both sides of row at one passage, one garden plow, one marker and one leaf lifter, which enables the operator to work close to the rows of plants without fear of injuring them.

Nos.	4 D	4
Hopper capacity, quarts	2½	2½
Weight, lbs.	38	47
Each		

No. 4D—Seeder only, without single wheel hoe attachments. No. 4—Combined seeder and single wheel hoe.

COMBINED HILL AND DRILL SEEDER, SINGLE AND DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

For the economical gardener who has a large enough acreage in crops to warrant the use of a double-wheel hoe and does not care to buy separate tools this implement is especially designed.

Adjustable to sow in drills any thickness or to drop in hills 4, 6, 8, 12 or 24 inches apart. Equipped with an automatic device for stopping the feed. The hoes are shaped in such a way as to allow work being done close to the rows without danger to the plants.

As a drill it is almost identical with Planet Jr., No. 4 Drill, and as a wheel hoe it is identical with the Planet Jr., No. 12 Double Wheel Hoe. The change from drill to wheel hoe can be made instantly. Has 11¼-inch steel wheels.

Equipped with one pair 6-inch hoes; four cultivator teeth, one pair plows; two leaf guards, and one marker.

No.	25
Hopper capacity, quarts	2½
Weight, lbs.	59
Each	

No. 25

No. 31

COMBINED DRILL SEEDER AND WHEEL HOE

No. 31 Planet Jr. is a new combined tool of great value to thousands of gardeners who have never felt able to own, either a seed drill or a wheel hoe. It is thoroughly well made and offered at a price that makes it pay the smallest gardener. It will sow even a small packet of garden seed the thickness desired with great precision from ¼ to 2 inches deep, in a narrow row. The index is most simple, easily set for every kind of seed. The flow of seed is stopped simply by raising the handles, and the tool may be thrown in or out of gear in a moment. The bottom of the hopper is open to full view. Seeds difficult to sow, like salsify, parsley, beets and lettuce, or radishes, beans, peas, turnips, cucumbers, carrots, pickles, spinach, celery, cantaloupes, etc., are handled admirably. It holds one quart.

The seed drill attachment may be removed in a moment and be replaced as quickly by a tool standard to which are fitted all the various cultivating attachments.

The large garden plow is constantly useful from spring to fall. After the ground is prepared, run out furrows for fertilizers, manure and large seeds such as peas beans and potatoes, and then cover them with it. As the crops grow, throw light furrows away from the row and then back again a few days later.

Use the cultivator steel to open narrow furrows; also useful for setting out plants. Use the five-prong cultivating attachment for both deep and shallow work.

The sweeps, of two widths, come into use during the whole season. The whole combination will delight the suburbanite or equally the growing boy who knows that a certain amount of garden work is to be part of his service. Women, younger or older, will find in this tool a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

Equipment—One large garden plow, one 5-inch sweep, one 10-inch sweep, one 2-inch cultivator tooth, one 5-prong cultivating attachment.

Nos.	31	31 D
Weight, lbs.	32	26
Each		

No. 31—Drill seeder and wheel hoe. No. 31D—Drill seeder only.

STANDARD AND TRUE TEMPER GARDEN TOOLS

STANDARD COMBINED HILL AND DRILL SEEDER, SINGLE AND DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

No. 9S

The No. 9S combination fills all the needs of the gardener or farmer who has not sufficient work to justify buying separate implements. It is easily changed from a double to a single wheel cultivator. The seeder not only delivers seed in drills but by shifting one part only, without the use of tools, it will drop in hills 4, 6, 8, 12 and 24 inches apart. The index is in plain view and very easily adjusted with a brass thumb screw to give the required amount of seed. To cut off the flow of seed entirely at the ends of the rows or in moving from one field to another, pull out the seed slide just past the gauge marks where it will latch by pressing lightly to the right a spring will pull it back to position without in any manner changing the adjustment. A stiff Russian bristle is used in the seed brush which will feed a positive regular flow of seed the brush being cased in at the bottom of the hopper to prevent unnecessary agitation of the seed and wear on the brush. A special shape shoe is provided, which is nicely polished and will open up a clean furrow, and is adjustable in depth up to 2 inches. An extra shoe made of tin is also furnished which fits inside the regular shoe to distribute seed in a very narrow row. This allows for close cultivation after the plants are up. The coverer is hinged to the seeder and does its work well. A concave roller wheel in the rear finishes the job in proper shape. This outfit cannot be recommended too highly. Directions with each machine show how to set up and operate. Equipped with four shovels, one pair hoes, one pair diamonds, all oil tempered and finely polished, two leaf guards and wrench.

No.	9S
Hopper capacity, quarts	
Weight, lbs	56
Each	

One in a crate, handles bundled separately.

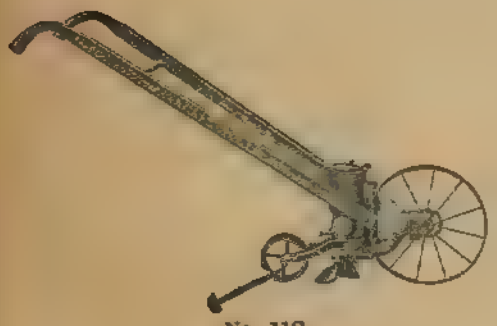
STANDARD COMBINED HILL AND DRILL SEEDER, SINGLE AND DOUBLE WHEEL HOE

No. 10S

The No. 10S is the same as No. 9S, except having fewer cultivating attachments. See above for detailed description. Other cultivating attachments can be purchased at any time.

No.	10S
Hopper capacity, quarts	
Weight, lbs	54
Each	

STANDARD HILL AND DRILL SEEDER ONLY



No. 11S

This is the practical implement for users who do not wish to be changing combinations. The seeder delivers seed in hills and drills by shifting one part only. It will drop in hills 4, 6, 8, 12 and 24 inches apart. The index is in plain view and very easily adjusted with a brass thumb screw to drop the required amount of seed. To cut off the flow of seed entirely at the ends of the rows or in moving from one field to another, pull out the seed slide just past the gauge marks where it will latch; by pressing lightly to the right, a spring will pull it back to position without in any manner changing the adjustment. A stiff bristle is used in the seed brush which will feed a positive, regular flow of seed; the brush is cased in at the bottom of the hopper to prevent unnecessary agitation of the seed and wear. A special shape shoe is provided, which is nicely polished and will open up a clean furrow, and is adjustable in depth up to 2 inches. The shoe is so constructed as to distribute seed in a narrow row which allows close cultivation after the plants are up. The coverer is hinged to the seeder and does its work well. A concave roller wheel in the rear finishes the job in proper shape.

No.	11S
Hopper capacity, quarts	
Weight, lbs	44
Each	

PLANES

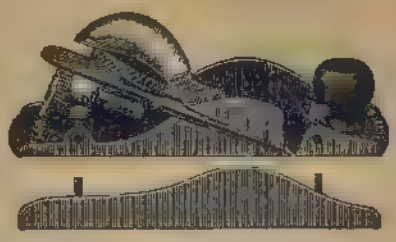
Manufactured by Stanley Rule and Level Co.

BLOCK

Nickel plated trimmings. Knuckle joint. With screw, lever and throat adjustments.

Nos.	18	19
Length, inch	6	7
Size of cutter, inch	1⅝	1⅝
Weight each, lbs.	1½	1⅝
Each	$4.50	5.00

RABBET AND BLOCK



Nickel plated trimmings. With screw adjustment. Right side detachable to change to rabbet cutter, set on a skew.

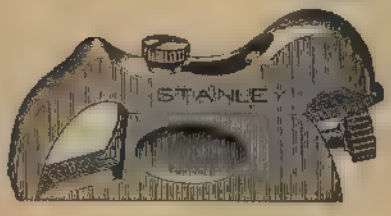
No.	140
Length, inch	7
Size of cutter, inch	1¾
Weight each, lbs.	1½
Each	$4.75

BULL NOSE RABBET

Japanned trimmings. Not adjustable.

No.	75
Length, inch	4
Size of cutter, inch	1
Weight each, lb.	¾
Each	$1 30

CABINET MAKERS RABBET



Plane will lie perfectly flat on either side and can be worked either right or left hand. Has adjustable throat and handy grip. Nickel plated. With screw adjustment.

No.	90
Length, inch	4
Size of cutter, inch	1
Weight each, lb.	1
Each	$6.75

Nickel plated. With screw adjustment.

No.	92
Length, inch	5½
Size of cutter, inch	¾
Weight each, lbs.	1¾
Each	$6 75

Nickel plated. Without screw adjustment

Nos.	93	94
Length, inch	6½	7½
Size of cutter, inch.	1	1¼
Weight each, lbs	1¾	2
Each	$9 00	9.75

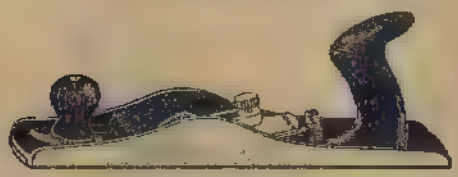
Note—No. 92 planes are designed for fine cabinet work where extreme accuracy is required. The sides and bottom being square with each other, the plane will lie perfectly flat on either side, and can be used right or left.

SIDE RABBET

Used for side rabbeting and trimming dadoes, moulding and grooves of all kinds. The reversible nose piece gives the tool a form by which it will work close into the corners.

	Right hand	Left hand
Nos.	98	99
Length, inch	4	4
Size of cutter, inch	½	¾
Weight each, lb.	½	½
Each	$3 30	3.30

LOW ANGLE JACK



This plane is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained from the ordinary block plane. Throat and screw adjustments.

No.	62
Length, inch	14
Size of cutter, inch	2
Weight each, lbs.	3⅝
Each	$10.25

PIANO MAKERS EDGE

No 97

A useful tool for piano makers and all cabinet workers, for trimming inside work where space prevents the use of any other plane. Screw adjustment.

No.	97
Length, inch	10
Size of cutter, inch	2¼
Weight each, lbs.	3¾
Each	$9.00

CARRIAGE MAKERS RABBET

For heavy framing in mining work, carriage or wagon building or work of similar nature.

Nos.	10½	10
Length, inch	9	13
Cutter, inch	2½	2½
Weight each, lbs.	3	4½
Each	$9.75	11.75

All above, one in a cardboard box.

PLANES

Manufactured by Stanley Rule and Level Co.

IMPROVED RABBET

Will lie perfectly flat on either side, and can be used right or left hand equally well, while planing into corners or up against perpendicular surfaces. Fitted with a depth gauge. Improved rabbet and spur, permitting using across grain.

	Without Spur Cutter		With Spur Cutter		
Nos.	180	182	190	191	192
Length, inch	8	8	8	8	8
Cutter, inch	1½	1	1½	1¼	1
Weight each, lbs	2¾	2	2¾	2¼	2
Each	$5.00	5.00	5.25	5 25	5.25

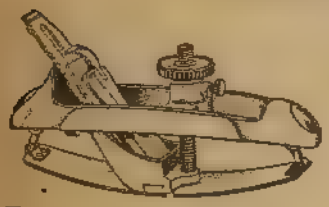
RABBET AND FILLETSTER

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand filletster, with adjustable spur and depth gauge. Remove the arm to which the fence is secured, making a handled rabbet plane and with two seats for the cutter, so that the tool can be used as a bull-nose rabbet if required.

No 78

No.	78
Length, inch	8½
Cutter, inch	1½
Weight each, lbs	3
Each	$6 00

VICTOR CIRCULAR



This is a more recent and improved design. The face is fastened at each end to the plane body, and adjusted by a screw at the center. Nickel plated.

No.	20
Length, inch	10
Cutter, inch	1¾
We ght each, lbs	4
Each	$14.00

IMPROVED DADO

Cutter is set on a skew. Fitted with adjustable depth gauge and two adjustable spurs.

No. 39—							
Cutter, inch	⅛	¼	⅜	½	⅝	¾	1
Length, in.	8	8	8	8	8	8	8
Wght ea, lbs	2	2	2	2¼	2½	2¾	2½
Each	$6.00	6.10	6.25	6.75	7.25	7.50	7.75

Adjustable fence slides under the bottom, regulating the width of cut. Fitted with two spurs, one on each side, and it also has an adjustable depth gauge. Cutter is adjustable endwise.

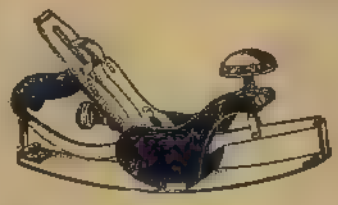
No.	278
Length, inch	5¾
Cutter, inch	1
Weight each, lbs	2
Each	$6.00

SKEW CUTTER, FILLETSTER AND RABBET

Tempered and polished tool steel cutters. Equipped with a fence which can be attached to either side of the plane so that it can be used either right or left hand.

No.	289
Length, inch	8½
Cutter, inch	1¾
Weight each, lbs	4
Each	$7.50

ADJUSTABLE CIRCULAR



By means of the graduated scale on the gears, the flexible steel face can be easily shaped to any required arc, either concave or convex, by turning the knob on the front of the plane.

No.	113
Length, inch	10
Cutter, inch	1¾
Weight each, lbs	4
Each	$12.50

COMBINED BEADING AND MATCHING

By adjustment of the fence, center beading can be done up to 5 inches from the edge of a board. Except for working across the grain the spurs need not be used.

The cutters comprise 7 plow and dado bits, ¼, ⅜, ⅜, ½, ½, ⅝ and ⅞-inch; 7 beading tools, ⅛, ⅜, ¼, ⅜, ⅜, ½ and ½ inch; and a ¼-inch tonguing tool.

Nickeled stock and fence.

No 50

No.	50
Length, inch	9¼
Weight each, lbs	4
Each	$15.00

All above, one in cardboard box.

PLANES

Manufactured by Stanley Rule and Level Co.

SWINGING FENCE MATCH

Has two plow cutters of the width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and, when reversed, leaves only one exposed for cutting the groove. On thicker boards than the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue. Nickel plated. Rosewood knobs.

No.	48	49
Cuts groove, inch	⅛	⅛
On boards, inch	¾ to 1¼	½ to ¾
Centers on, inch	⅞	½
Weight each, lbs	3¾	2⅝
Each	$9.75	9.75

DOUBLE END MATCH

Provided with both tongue and groove irons. With one side a tongue can be cut, and by reversing ends the plane will cut a groove to fit. The tonguing tools are made wider on one side for use on thicker stuff than the plane will tongue and groove in the center.

No.	148
Cuts groove, inch	¼
On boards, inch	¾ to 1
Centers on, inch	⅞
Weight each, lbs	2⅝
Each	$8 00

ROUTER

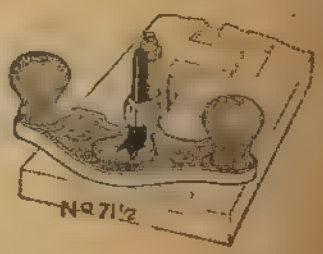
OPEN THROAT

For surfacing the bottom of grooves or other depressions parallel with the general surface of the work. Open throat. Bottom designed so that an extra wooden bottom of any size desired can be screwed on, enabling routing on large openings. Nickeled.

No.	71
Length, inch	7½
Cutter, inch	¼–½
Weight each, lbs	2⅝
Each	$7.50

CLOSED THROAT

Same as No. 71, but with closed throat.



No.	71½
Length, inch	7½
Cutter, inch	¼–½
Weight each, lbs	2⅛
Each	$6.40

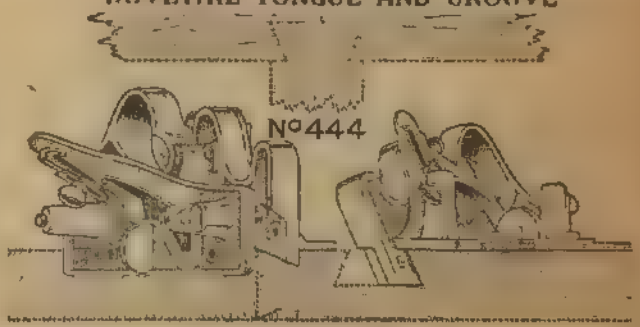
DOOR TRIMMER

Will make mortises for butts, face plates, strike plates, escutcheons, up to depth of ⅝-inch and a width of 3 inches. The fence regulates the position of the cut and insures sides of cut being parallel. Japanned.

With three forged steel cutters, ⅜, ½ and ⅞-inch.

No.	171
Length, inch	11
Weight, lbs	3¾
Each	$10.50

DOVETAIL TONGUE AND GROOVE



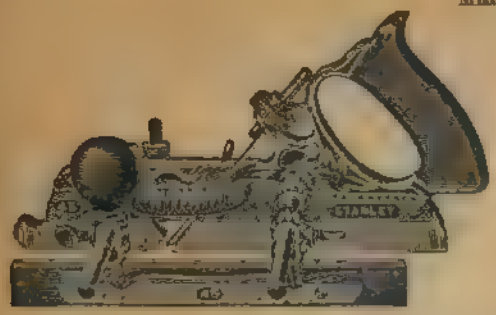
Cuts both tongue and groove for dovetail work. Four cutters are furnished with each plane, three of which are for cutting grooves of different sizes and one for cutting tongues of any size. Complete instructions for operating accompany each plane. Nickeled.

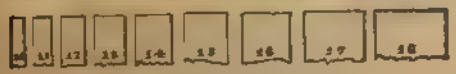
No.	444
Length, inch	9
Weight, lbs	6½
Each	$21 50

All above, one in a cardboard box.

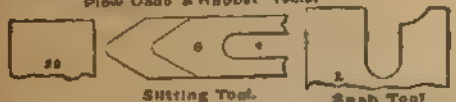
PLANES

Manufactured by Stanley Rule and Level Co.





Plow Dado & Rabbet Tools.



Slitting Tool. Sash Tool

Beading Tools. Match Tool

STANLEY FORTY-FIVE

This plane combines a main stock and a sliding section so arranged that cutters of different width can be used. Each plane is fitted with adjustable fence or guide and a depth gauge, and also with spurs for use in working across the grain This plane can be used right or left hand.

This plane embraces (1) beading and center beading plane; (2) rabbet and fillelster; (3) dado; (4) plow; (5) matching plane; (6) sash plane, and (7) a superior slitting plane.

Each plane has 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½-inch, 10 plow and dado bits, ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, 5/8, ¾ and ⅞-inch, a sash tool, a match tool, a slitting and a filletster tool.

No. 45—Nickel plated. Complete, with 21 tools, bits, etc. Weight, 9½ lbs.
Each $24.00

One in a steel box.

NOSING TOOLS

For Plane No. 45

No. 5—Nosing tool, 1¼ inches (attachment same as hollows and rounds).
Each $3 75
Extra cutters for above..... Each $1.25

One in a box

REEDING TOOLS

For Plane No. 45
Size of beads either ⅛, 3/16 or ¼-inch

Number of beads	2	3	4	5
Each	$0.30	.45	.60	.75

In ordering, always state size and number of beads wanted

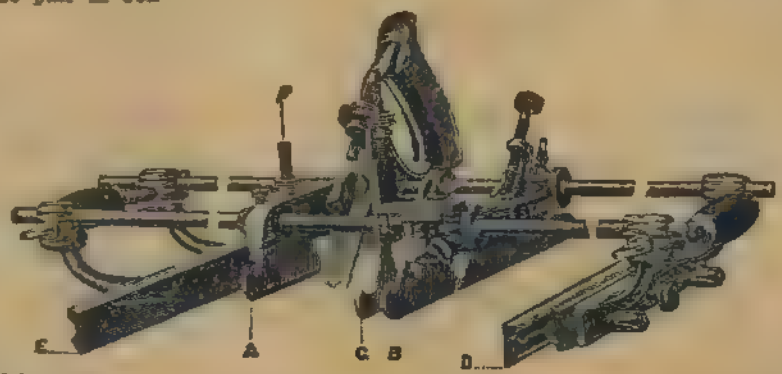
HOLLOWS AND ROUNDS

For Plane No. 45
Order only by numbers

No.	6	8	10	12
Width of cutter, inch	½	⅝	¾	1
Works circles, inch	¾	1	1¼	1½
Weight per pair, lbs	1¾	1¾	2	2¼
Per pair	$4.50	4 50	4 75	4 75
Extra cutters	Each $1.00			

One pair in box

STANLEY FIFTY-FIVE



This tool in the hands of an ordinary carpenter, can be used for all lines of work covered by a full assortment of so-called fancy planes.

The 52 cutters are arranged in 4 separate cases.

This plane consists of:

A main stock (A) with 2 set screws of transverse sliding arms a depth gauge (F) adjusted by a screw, and a slitting cutter with stop.

A sliding section (B) with a vertically adjustable bottom.

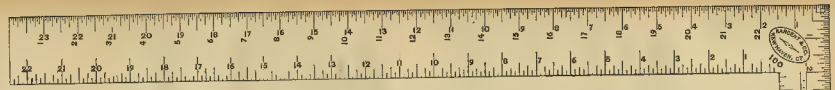
The auxiliary center bottom (C) is to be placed in the front of the cutter, as an extra support, or stop, when needed. This bottom is adjusted both vertically and laterally.

Fences (D) and (E) Fence D has a lateral adjustment by means of a screw for extra fine work. The fences can be used on either side of the plane and the rosewood guides can be tilted to any desired angle, up to 45 degrees, by loosening the screws on the face Fence E can be reversed for center beading wide boards.

An adjustable stop to be used in beading the edges of matched boards is inserted on left hand side of sliding section (B).

No. 55—Nickel plated, with 52 tools, bits, etc. Weight, 15 lbs.
Each $50.00

One in a steel box.



SARGENT'S FRAMING SQUARES

	Size of Body	Size of Tongue	Wt. per Doz. lbs	Per Dozen	HOW MARKED — Face of Body - Outside	Face of Body - Inside	Face of Tongue. Outside	Face of Tongue. Inside	Back of Body - Outside	Back of Body - Inside	Back of Tongue Outside	Back of Tongue Inside	Additional Scales and Tables
No. 3—Polished Steel	24x2	16x1½	31	$33.50	1/16	1/4	1/16	1/4	1/12	1/4	1/12	1/4	Brace Measure, Essex's Board Measure.
No. 3B Blued with White Markings	24x2	16x1½	31	49.50	1/16	1/4	1/16	1/4	1/12	1/4	1/12	1/4	Brace Measure, Essex's Board Measure.
No. 3VG—Galvanized with Red Markings	24x2	16x1½	31	50.50	1/16	1/4	1/16	1/4	1/12	1/4	1/12	1/4	Brace Measure, Essex's Board Measure.
No. 12— Polished Steel	12x1½	8x1	9	26.00	1/16	1/8	1/16	1/8	1/12	1/8	1/12	1/8	
No. 14—Polished Steel	24x2	16x1½	31	30.00	1/8	1/4	1/8	1/4	1/4	1	1/4	1/4	Essex's Board Measure.
No. 30—Polished Steel	18x1½	12x1	16	30.00	1/16	1/4	1/16	1/4	1/12	1/4	1/12	1/4	
No. 100—Polished Steel	24x2	16x1½	31	37.00	1/16	1/8	1/16	1/8	1/12	1/32	1/32	1/10 and 1/100	Brace Measure, Eight Square Measure Essex's Board Measure.
No. 100VG- Galvanized with Red Markings	24x2	16x1½	31	43.00	1/16	1/8	1/16	1/8	1/12	1/32	1/32	1/10 and 1/100	Brace Measure, Eight Square Measure, Essex's Board Measure.
No. 314 Polished Steel	24x1½	16x1½	28	30.00	1/8	1/4	1/8	1/4	Centi-meters	Centi-meters.	Centi-meters.	Centi-meters	English and Metric Measure.

SARGENT'S RAFTER AND FRAMING SQUARES

	Size of Body.	Size of Tongue.	Wt per Dos. lbs.	Per Dozen	HOW MARKED — Face of Body - Outside.	Face of Body - Inside.	Face of Tongue Outside	Face of Tongue Inside	Back of Body. Outside	Back of Body. Inside	Back of Tongue Outside.	Back of Tongue Inside	Additional Scales and Tables
No. 100R—Polished Steel	24x2	16x1½	31	$40.00	1/16	1/8	1/16	1/8	1/12	1/32	1/12	1/10	Brace Measure, Patent Rafter Table Eight Square.
No. 100CR—Royal Copper with White Markings	24x2	16x1½	31	47.00	1/16	1/8	1/16	1/8	1/12	1/32	1/12	1/10	Brace Measure, Patent Rafter Table, Eight Square.
No. 500VGR—Galvanized with Red Markings	24x2	16x1¾	31	60.00	1/16	1/8	1/16	1/8	1/12	1/32	1/12	1/10 and 1/100	Brace Measure, Patent Rafter Table Table for Hip, Valley, Jack and Cripple Rafters and Cuts of Common Polygon.
No. 503R- Polished Steel	24x2	16x1½	31	41.00	1/16	1/4	1/16	1/4	1/12	1/4	1/12	1/4	Brace Measure, Patent Rafter Table, Table for Hip, Valley, Jack and Cripple Rafters.

The Sargent Steel Square, standard the world over, is made from high-grade tool steel and is carefully tested for trueness and accuracy of marking. It has the proper balance or hang.

In order to explain the marking on the Square we call the side upon which the word "SARGENT" is stamped, the FACE; the reverse side the BACK. The larger arm is called the BODY or BLADE, and the shorter arm the TONGUE. We then have the—

OUTSIDE FACE of the BODY or BLADE
INSIDE FACE of the BODY or BLADE
OUTSIDE FACE of the TONGUE
INSIDE FACE of the TONGUE

OUTSIDE BACK of the BODY or BLADE
INSIDE BACK of the BODY or BLADE
OUTSIDE BACK of the TONGUE
INSIDE BACK of the TONGUE

All above one-quarter dozen in a package.

PLUMBS AND LEVELS

LEVEL GLASSES

Proved

Made of extra thick tubing. By a patent process each level receives an indelible mark at its highest or crowning point in the center

Length.	Dozen.	Length.	Dozen.
1½ in.	$1.00	3 in.	1.60
1¾ in.	1.20	3½ in.	1.60
2 in.	1.30	4 in.	1.70
2½ in.	1.40	Assorted (1¾, 3 and 3½ in.)	1.50

For Nos. 36G and 37G Levels, In Tube or Metal Case

	—6 Inch— Plmb. Level	—9 Inch— Plmb. Level	12 to 24 In. Plmb. Level
Proved Glasses for No. 36G Level.	Each, $0.60	.80	.60	.80	.65	.85
Ground Glasses for No. 37G Level	Each,	.90	1.00	.90	1.00	.90	1.00

All twelve in a box.

STANLEY LEVEL SIGHTS

Can be attached to any level For leveling from one given point to another

No. 1—Level Sights for Wood Levels Per doz. Pairs, $15.00
No. 2—Level Sights for Iron Levels. ... " " " 15.00
One-twelfth dozen pairs in a box.

IRON LEVELS

STARRETT'S

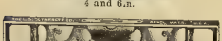
Pocket

No. 135—2½ in. Long. Nickel Plated . Each, $0.50
No. 135—3½ in. Long. Nickel Plated . " .60

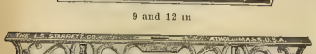
Iron Bench

No. 130—3½ in Long Each, $0 60
Above one-half dozen in a box

4 and 6 in.



9 and 12 in



18 and 24 in.

Iron Bench

With Double Plumbs; have longitudinal grooves in seat of base, for shafting, etc.

No. 132—Length, in.	4	6	9	12	18	24
Weight each, lbs.	½	1	1½	1¾	3	4½
Each	$1.65	1.80	2.00	2 10	2 40	2 70

Nos 97 and 98 6 and 8 in

Nos. 97 and 98—12 in. (18 in. has double Plumb.)

Improved Levels for Testing Shafting, Etc.

In addition to the regular parallel vial, the bases have a cross level which enables one to place or hold the base on a shaft level in its cross section, not canted sidewise; for the shape of a level glass is such that, though true as adjusted on a flat surface, it will not be reliable when canted sidewise. Hence the value of the cross level, not only to test the truth of shafting, but other surfaces which tend to throw the level base into a canting position

The base of this level has our improved concaved groove running through the length of its base, leaving a flat margin each side, which improves its seat for flat work, while forming an absolutely true and reliable seat for shafting, etc., and is better than a V groove.

*No. 97—Length, in.	6	8	12	18
Weight each, lbs.	1¼	1⅝	3½	6¼
Each	$2.10	2.40	3.00	4.20

With Plain Vial. Has groove for shafting, etc.

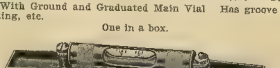
*6 and 8 inch, without plumb; 12 inch, single plumb; 18 inch, with double plumb.

One in a box

No. 98—Length, in.	6	8	12	18
Weight each, lbs.	1½	1⅝	3½	6¼
Each	$4.80	6.40	7.20	10.20

With Ground and Graduated Main Vial Has groove for shafting, etc.

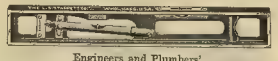
One in a box.



Electricians'

Non-Magnetic, with Plain Vial, Bronze Base, Grooved.

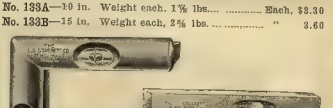
No. 197 -8 in Long... . Each. $3 00



Engineers and Plumbers'

An Adjustable Incline or Fixed Level and Plumb, with groove in seat of frame. Plain Glasses

No. 133A—10 in. Weight each. 1⅞ lbs.... ..... Each, $3.30
No. 133B—15 in. Weight each, 2⅝ lbs. ..... " 3.60



No. 136—Cross Test No 134—Cross Test.

No. 136—Cross Test, 2½ x3¼ in. Nickel Plated.....Each, $0.90
No. 134—Cross Test, 2x3x1¼ in. Nickel Plated..... " 1.80
All above one in a box.

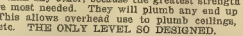
PLUMBS AND LEVELS

SAND'S

CARPENTER'S AND MASON'S ALUMINUM LEVELS

Work Either End or Edge Up.

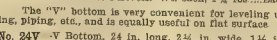
SAND'S Aluminum Levels are the standard of accuracy. Not only the most accurate but the easiest to read in dark places. Made of aluminum which will never rust. SAND'S Aluminum Levels cannot warp, split or crack like the ordinary wood levels. They are the lightest levels made, and 50% stronger than any other, because the greatest strength is placed where most needed. They will plumb any end up or level edge. This allows overhead use to plumb ceilings, girders, beams, etc. THE ONLY LEVEL SO DESIGNED.



No. 18V—"V" Bottom, 18 in. long, 2¼ in. wide, 1 ⅛ in. thick, two Plumbs and two Levels. Wt. each, 1⅝ lbs....Each, $4.25

The "V" bottom is very convenient for leveling up shafting, piping, etc., and is equally useful on flat surface.

No. 24V—V Bottom, 24 in. long, 2¼ in. wide, 1 ⅛ in. thick, two Plumbs and two Levels. Weight each, 2 lbs....Each, $5 50



No. 30-F—Flat Bottom, 30 in. long, 2⅜ in. wide, 1 ⅛ in thick, four Plumbs and two Levels. Wt. each, 3 lbs... Each, $7 00

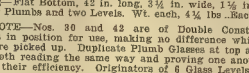
No. 30-V—Grooved Bottom, otherwise same as No. 30-F. .... Each, 7.00

No. 42—Flat Bottom, 42 in. long, 3½ in. wide, 1⅝ in. thick, four Plumbs and two Levels. Wt. each, 4¼ lbs ...Each, $8.00

NOTE—Nos. 30 and 42 are of Double Construction, always in position for use, making no difference which way they are picked up. Duplicate Plumb Glasses at top and bottom, both reading the same way and proving one another increase their efficiency. Originators of 6 Glass Levels.

All above one in a box.

SAND'S LEVEL SIGHTS

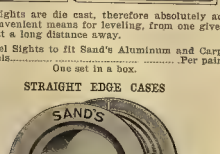


These Sights are die cast, therefore absolutely accurate, and are a convenient means for leveling, from one given point to another, at a long distance away.

No. 10—Level Sights to fit Sand's Aluminum and Carpenter's Wood Levels.....Per pair, $0.60

One set in a box.

STRAIGHT EDGE CASES



Model A—Single Glass. Weight each, 5 oz. . Each, $0 60
Model B—Double Glass. Weight each, 6oz ..... " .60

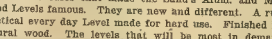
Made of High Grade Aluminum. Strong and Light. They can be used on any length Straight Edge from ⅝ in to 4¼ in thick by simply drilling a hole 1⅝ in diameter When fastened to Straight Edge they are dust, dirt and waterproof.

Above one in a box, twelve in a carton

CARPENTER'S BLACK WALNUT LEVELS

Work Either End or Edge Up.

SAND'S Walnut Levels are very high grade, possessing the same features that made the Sand's Alum. and Mason's Wood Levels famous. They are new and different. A rugged, practical every day Level made for hard use. Finished in the natural wood. The levels that will be most in demand on account of their superiority.



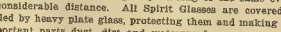
No. 118—18-20-24 in. long, 2½ in. wide, 1⅛ in. thick, two Plumbs and two Levels. Weight each, 1⅞ lbs.....Each, $1.50

No. 126—26-28-30 in. long, 2¼ in. wide, 1⅛ in. thick, two Plumbs and two Levels. Weight each, 2 lbs.....Each, 1.80

All above one in a box.

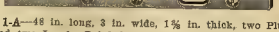
The Spirit Glasses used on all Sand's Levels are of special design, SET SOLID, have a slight crown, a quick acting bubble and are very accurate. They are set in such a manner as to give the least amount of trouble and the greatest efficiency. Clear, distinct wire bands on the spirit glasses, one at each end of bubble, enable the user to very quickly and accurately center the bubble, allowing easy reading of the same even at a considerable distance. All Spirit Glasses are covered and sealed by heavy plate glass, protecting them and making these important parts dust, dirt and waterproof.

MASON'S WOOD LEVELS

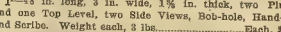


No. 1-A—48 in. long, 3 in. wide, 1⅝ in. thick, two Plumbs and two Levels, Bob-hole, Hand-hole and Scribe. Levels either edge up. Weight each, 3 lbs.....Each, $2.25

No. 1—48 in. long, 3 in. wide, 1⅝ in. thick, two Plumbs and one Top Level, two Side Views, Bob-hole, Hand-hole and Scribe. Weight each, 3 lbs.....Each, $2.25



No. 3-A—48 in. long, 3 in. wide, 1⅝ in. thick, two Hand-holes, four Plumbs, two Levels, works either end or edge up. Weight each, 3 lbs.....Each, $3.00



No. 7—Fully Brass Bound. Otherwise same as No. 3-A. Wt. each, 4 lbs..... .. .. Each, $5.00

Nos. 3-A and 7 have Reversible Plumbs and Levels—HANDY, CONVENIENT and TIME SAVERS. The advantages are: Being of double construction, no matter how they are picked up, they are always in position for use, while the duplicate plumb glasses, one at the top and the other just below the center, both reading the same way, add to the convenience. For low work upper plumb glass is read and for overhead work the lower glass is in range. The most Popular and best selling Levels made.

The wood used in Nos. 1-A, 1-3-A and 7 Levels is carefully selected, thoroughly air-dried White Pine. Each piece being left to stand from six to twelve months before being made into finished stock, thereby insuring absolute accuracy. All Mason's Levels are finished with 3 coats of Weather-Proof Paint.

No. 1A, 1 and 3-A, twelve in a box.
No 7, six in a box.

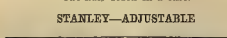
PLUMBS AND LEVELS

STANLEY—NON-ADJUSTABLE

No. 104—Hardwood, 1¼x2⅜ in., not adjustable, assorted 12 to 18 in. Weight per dozen, 15 lbs. . . . . Per doz., $14.00
One dozen in a case.

No. 0—Hardwood, 1⅝x2¼ in., not adjustable, assorted 24 to 30 in. Weight per dozen, 40 lbs. . . . . Per doz., $20.00
One-half dozen in a case.

STANLEY—ADJUSTABLE

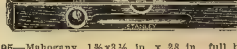


No. 3—Hardwood, 1⅝x3⅛ in., adjustable, brass tips, assorted 24 to 30 in. Weight per dozen, 44 lbs. Per doz., $32.00

No. 5—Hardwood, 1⅝x3¼ in., 3-ply, adjustable, brass tips and brass lips, assorted 24 to 30 in. Wt. per doz, 48 lbs. Per dozen $42.00
One-half dozen in a case.

With Ground Glasses.

No. 90—Mahogany, 1⅝x3½ in. x 28 in., adjustable, brass lips and brass tips. With Ground Glasses. Weight per dozen, 48 lbs. . . . . Per dozen, $56.00
One-twelfth dozen in a box.



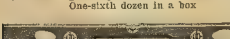
No. 95—Mahogany, 1⅝x3⅛ in. x 28 in., full brass bound, adjustable, brass lips and brass tips with ground glasses. Weight per dozen, 48 lbs. . . . . Per dozen, $95.00
One-twelfth dozen in a box

STANLEY—DUPLEX

No. 30—Hardwood, 1⅝x3⅛ in., polished, adjustable, brass tips, assorted 26 to 30 in. Wt. per doz., 48 lbs. Per dozen $40.00
Where an observation of the glass, sidewise, is desired, an additional leveling glass is set in the side, at the opposite end from the plumb. Both glasses are protected by brass discs, can be seen from either side and are inserted in the level with the least possible removal of wood from the stock.
One-half dozen in a case

MASONS' PLUMBS AND LEVELS

No. 35—Softwood, adjustable, proved glasses, 1⅝x3⅝ in. stock, 42 in long Wt. per doz, 64 lbs. Per doz., $40.00
One-sixth dozen in a box



No. 45—Soft wood, brass lips, adjustable, proved glasses. 1⅝x4½ in. stock, 48 in. long. . . . . Per Dozen, $50.00
One-sixth dozen in a box

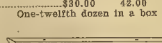
STANLEY—CARPENTERS' IRON

TOPS AND BOTTOMS ARE MILLED AND WET GROUND TO ENSURE TWO PERFECTLY PARALLEL SURFACES

With Groove. Proved Glasses
Japanned, Nickel Trim, Two Plumbs.

No. 36G—Length, in.	6	12	18	24
Weight each, lbs.	1	2½	4	5
Per Dozen	$30.00	42.00	48.00	54.00

One-twelfth dozen in a box

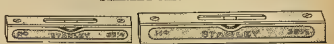


With Groove, Ground Glasses in Eclipse Cases for Protection
Full Nickel Plated, Two Plumbs.

No. 37G—Length, in.	12	18	24
Weight each, lbs.	2½	4	5
Per Dozen	$72.00	84.00	96.00

One-twelfth dozen in a box

STANLEY MACHINISTS'



Nickel Plated. Proved Glasses

No. 38½—Length, 4 in. Wt. doz., 3½ lbs ....Per dozen, $10.00
No. 39½—Length, 6 in. Wt. doz., 7 lbs..... " " 12.00
One-half dozen in a box.

STANLEY ECLIPSE

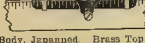
With V Base, Ground Glasses

Nickel Plated. Outer Shell turns so as to protect the glass from damage.

No. 34G—Length, in.	6	8	10
Weight each, lbs.	1	1½	2½
Per Dozen.	$36.00	48.00	60.00

One-twelfth dozen in a box.

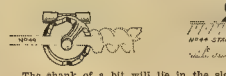
POCKET LEVELS



Iron Body, Japanned Brass Top Plate.

No. 41 -Length, 3¼ in. Wt. per doz., 2 lbs.....Per doz., $3.00
One dozen in a box.

BIT AND SQUARE LEVEL



The shank of a bit will lie in the slots either vertical or at an angle of 45 degrees, can also be attached to a carpenter's square, making an accurate plumb and level.

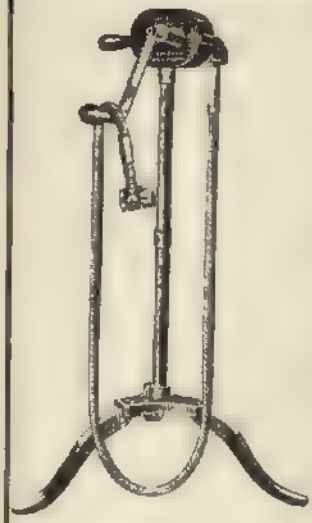
No. 44—Brass Frame. Weight per dozen, 1½ lbs...Dozen, $6.00
One dozen in a box.

SEATTLE HARDWARE COMPANY

STEWART HORSE CLIPPING MACHINES

Every Horse Worth Keeping is Worth Clipping This Should Be Done at the Proper Season. A Clipped Horse Looks Better Feels Better, and Works Better He Dries Out Quickly after the Day's Work, Rests Well, and his Food Does Him Good He is More Easily Kept Clean and Increases in Value

The Machines on This Page are Used Extensively by Dairymen for Clipping the Flanks and Udders of Cows.



THE STEWART No. 1 BALL BEARING

STANDARD OF THE WORLD

The Most Perfect Clipping Machine made. Is Sturdy and Compact in Form, Can be Taken Apart and Carried in a Satchel.

The Tripod is Rigid and Strong; the Gears are Cut from Solid Metal and Enclosed in a Dust-Proof Case where they Run Constantly in Oil, Eliminating Friction and Wear.

Cast Iron Tripod Base; 1-inch Tubular Steel Jointed Post Dust-Proof Cast Iron Gear Case Flexible Steel Shaft Running in a 1¼-inch Seamless Canvas Cover Fitted with the Stewart One-Nut Tension Knife

Each

No. 1—Height 39 inches, Spread at Base, 22 inches, Length of Shaft Including Knife Head, 6½ feet; Width of Blade, 3 inches; Weight, 36 pounds . $9.75 **$14.75**

One in a box, Size 12½ x 11 x 8 inches

THE No. 2 CHICAGO

A Big, Strong Machine for one who has much Clipping to do

A Special Favorite with Blacksmiths and Liverymen

Showing Handle Complete.

The Large Gear is Carefully Machined with Milled Teeth, Which Fit with Perfect Precision into the Teeth of the Hardened Steel Pinion. Power is Direct and Positive; no Retarded Motion, no Belts to Slip.

The Balance Wheel on the Pinion Shaft Revolves at Great Speed, Imparting a Smooth Motion to the Machine

Cast Iron Tripod Base and Top Frame 1-inch Tubular Steel Jointed Post Flexible Steel Shaft, Running in a 1¼-inch Seamless Canvas Cover; Fitted with the Stewart One-Nut Tension Knife.

No. 2—Height, 44 inches; Spread at Base, 22 inches, Diameter of Gear Wheel, 18 inches, Length of Shaft, Including Knife Head 6½ feet, Weight 77 pounds $11.00 **$21.50**

One in a box, Size, 25 x 21 x 11 inches

STEWART SHEEP SHEARING MACHINES

Shearing with a Machine Takes Off the Wool Evenly, Leaving no Waste Stubble, and the Staples are Full Length, therefore of Highest Value. The Sheep are Cut Smoothly and the Wool Grows Evenly

STEWART BALL BEARING

ENCLOSED GEAR

Base and Upright of this Machine are the Same as the Base and Upright of the Stewart No. 1 Ball Bearing Clipper They are as Substantial as it is Possible to Make Them. Every Joint in the Shaft and the Shearing Head Itself is Fitted with Ball Bearings, Producing a Machine that Turns Easier and Cuts Faster with Less Effort on the Part of the Operator, than Any Machine Ever Made.

Every Owner of Five or More Sheep Should Use a Shearing Machine.

Each

No. 9—Height, 39 inches Spread at Base, 22 inches. Fitted with No. 7 Ball Bearing Shear, Four Combs and Four Cutters. Boxed, 50 pounds..... $14.00 **$21.50**

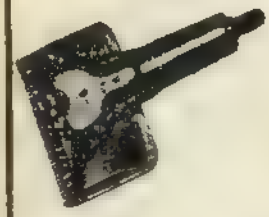
One in a box.

PARTS FOR CLIPPING AND SHEARING MACHINES

The Construction is Exceedingly Simple, there are no Unnecessary Parts The Adjustment is Made by a Single Nut Centrally Located so that Tension is Equally Distributed and it is Impossible to Adjust One End of the Knife More Tightly than the Other

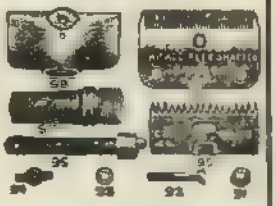
DUST PROOF ONE-NUT BALANCE PRESSURE

FOR STEWART OLD MODEL SINGLE TENSION CLIPPING HEAD



FOR OLD MODEL HEAD

Prices on Request



	Each
No. C1—Head Complete With Knife 3-inch Cut	$3 50
No. C2—Pair Horse Clipping Blades Top and Bottom	2.50
No. C3—Head Complete Without Knives	1.00

One in a box

PARTS FOR HORSE CLIPPER HEAD

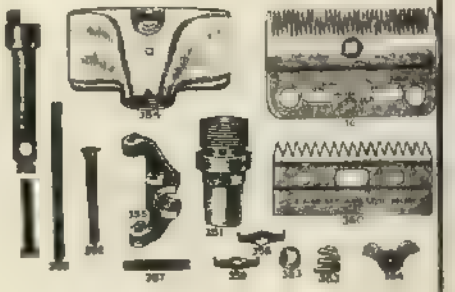
	Each
No. 90 Low Plate Weight 3 ounces	$1 00
No. 91 Tension Spring Weight ⅛ ounce	05
No. 92 Tension Bolt Weight, ½ ounce	05
No. 93 Eccentric Roll Weight ⅛ ounce	10
No. 94 Tension Nut Weight ½ ounce	05

	Each
No. 95—Eye Shaft Weight 3 ounces	$ .35
No. 97—Handle Shank Weight 4 ounces	40
No. 98 Cap Weight 4 ounces	50
No. 99—Bottom Plate Weight 3 ounces	1 50

FOR STEWART NEW MODEL SINGLE TENSION CLIPPING HEAD

FOR NEW MODEL HEAD

Prices on Request



	Each
No. CN1—Head Complete With Knife, 3-inch Cut	$3 50
No. CN2 Pair Horse Clipping Blades Top and Bottom	2 50
No. CN3—Head Complete Without Knives	1.00

One in a box

PARTS FOR NEW MODEL HORSE CLIPPER HEAD

	Each
No. 350—Shaft Socket Weight, 6 ounces	$ 25
No. 351 Taper Sleeve Weight, 2 ounces	40
No. 352 Drive Pin Weight 2 ounces	35
No. 353 Drive Rail Weight ⅛ ounce	10
No. 354—Brace Weight 5 ounces	50
No. 355—Cross Head Weight 1 ounce	.50
No. 356—Cross Head Pin Weight, ½ ounce	10
No. 357—Guide Pins Weight, ¼ ounce	.05

	Each
No. 358 Ball Boss Weight, ½ ounce	$ 05
No. 359—Socket Boss Weight, ¼ ounce	05
No. 360—Top Plate Weight, 2 ounces	1 00
No. 361—Bottom Plate Weight 3 ounces	1 50
No. 362—Tension Bolt Weight ¼ ounce	.05
No. 363—Tension Spring Weight, ⅛ ounce	.05
No. 364—Tension Nut Weight, ¼ ounce	.05

SHEEP SHEARING ATTACHMENTS

Horses can be Clipped and Sheep can be Shorn with the Same Machine by Fitting it with the Proper Attachments. This Arrangement is Very Economical and Highly Convenient

For use on Nos. 1 and 2 Horse Clipping Machines to Convert them to Sheep Shearers

		Each	
No. 88A—Consists of 3½ Feet Jointed Steel Shafting and Tubular Sheathing with Universal Joints and Connecting Gears, No. 5 Shearing Head and 4 Sets of Cutting Blades and Combs. Weight, Boxed, About 25 Pounds. One in a box		$8.25	$11.70

GRINDING MACHINE PASTES

For use on Stewart Grinding Machine Discs, in Grinding Blades for Horse Clipping and Sheep Shearing Machines.

		Per Box	
No. GMP—In Heavy Straw Board Box. Size 3 x 3½ Inches. Weight, About 1 Pounds		$ .40	.75

CHAIN PASTE

A Non-drying and Non-running Lubricant for Flexible Shafting Pinions, etc.

		Per Can	
No. 1CP—1 Pound Square Metal Can. Size, 3 x 3 x 4 Inches		$ .40	$ .40

GRINDERS FOR CLIPPING AND SHEARING KNIVES

STEWART IMPROVED

These Grinders Make it Possible to Put a Perfect Edge on the Knives of the Clipping and Shearing Machines in a Few Seconds. This Obviating the Expense and Delay Incurred in Sending the Blades Away to be Sharpened.

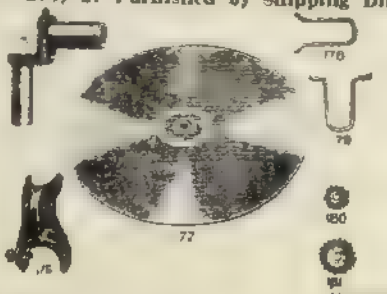
Attaches to Gear Case of No. 1 Clipper or No. 9 Shearer. Has a Big Advantage Over any Device Heretofore used for Grinding the Knives of Stewart Horse Clipping or Sheep Shearing Machines.

Intended for use with No. 1 Horse Clipping or No. 9 Sheep Shearing Machines. By a Simple and Ingenious Mechanism it is Attached to the Gear Case of the Machine. Used in Connection with Grinding Machine Paste Shown Above.

		Each	
No. 11 All Metal, 9-Inch Steel Grinding Plate. Weight, Boxed, 8 Pounds. One in a box		$4.50	$5.30

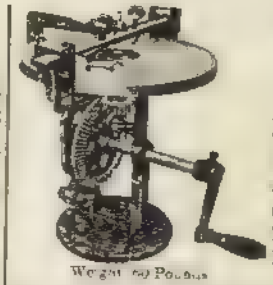
PARTS OF STEWART No. 11 IMPROVED GRINDER

Parts of Stewart No. 11 Improved Grinder **Not Carried in Stock. Can Only be Furnished by Shipping Direct From Factory.**



Prices on Request

No.		Net Weight	Each
175	Angle Head	16 Ounces	$1.50
176	Angle Clamp	11 Ounces	.25
177	Disc with Spindle	3½ Pounds	2.00
178	Plate Holder for Shearing Knives	1 Ounce	.25
179	Plate Holder for Horse Knives	1 Ounce	.25
180	Small Cog	1 Ounce	.25
181	Large Cog	2 Ounces	.50



Weight, 60 Pounds

STEWART AUTOMATIC

Requires no Skill, as it is Automatic and Cannot go Wrong. Can be Run by Power by Substituting a Pulley for the Crank Handle. The Machine Does the Work Perfectly and Requires no Skill Whatever to Operate. Used in Connection with Grinding Machine Paste Above. Directions with Each Machine.

		Each	
No. 160—Fitted for Horse Knives		$9.00	$9.00
No. 170—Fitted for Sheep Knives		9.00	9.00
No. 180—Fitted for Both Knives		9.50	9.00

PARTS OF STEWART AUTOMATIC GRINDER

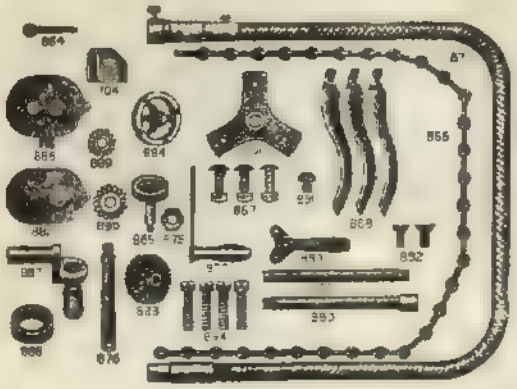
Parts of Stewart Automatic Grinder **Not Carried in Stock. Can Only be Furnished by Shipping Direct From Factory.**

Prices on Request

No.		Net Weight	Each
775	Sliding Bar Ejector	3½ Pounds	$ .50
776	Revolving Roll	2 Ounces	.25
777	Disc Spindle	8 Ounces	.50
778	Sliding Bar	19 Ounces	.75
779	Revolving Roll Pin	1 Ounce	.10
780	Ejector Plug	1 Ounce	.25
781	Steel Disc	7½ Pounds	3.25
782	Sliding Bar Holder	3½ Pounds	.75
783	Holder Bar	3 Ounces	.10
784	Eccentric Cam	9 Ounces	.50
785	Frame	8 Pounds	1.00
786	Thumb Screw	1 Ounce	.05
787	Horse Top Plate Holder	1 Ounce	.25
788	Ejector Bolt	4 Ounces	.25
789	Horse Bottom Plate Holder	1 Ounce	.25
791	Pinion	8 Ounces	.50
792	Wood Handle	2 Ounces	.10
793	Handle Bolt and Nut	3 Ounces	.15
794	Crank	12 Ounces	.25
795	Gear	27 Ounces	1.00
796	Axle	18 Ounces	.50
797	Bolt and Nut for Sliding Bar	1 Ounce	.10
798	Center Pin	1 Ounce	.10
	No. 5 Sheep Comb and Cutter Holder	1 Ounce	.25
	No. 4 Sheep Comb Holder	1 Ounce	.25
	No. 4 Sheep Cutter Holder	1 Ounce	.25
	Horse or Sheep Knife Holders, Complete	8 Ounces	.50

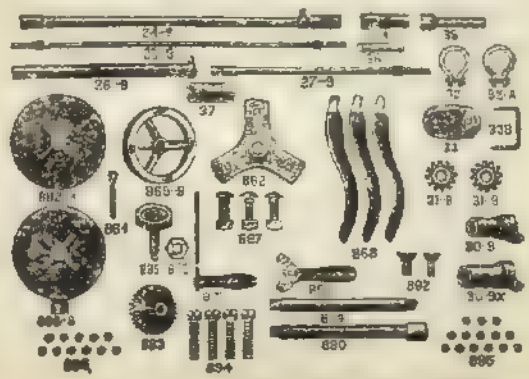
SHEEP SHEARING ATTACHMENTS

FOR STEWART No. 1



No.		Net Weight		Each
704	Gear Cap	5½	Ounces	$ 50
862	Leg Bracket	41	Ounces	35
864	Cotter Pin	¾	Ounce	02
866	6-foot Chain 30 Cents Per Foot	16	Ounces	1.80
867	Bracket Stud and Nut	2	Ounces	05
868	Legs, Each	30	Ounces	35
871	6-foot Shaft	30	Ounces	3 00
875	Handle Nut	¼	Ounce	05
876	Eye Spindle	4	Ounces	50
877	Crank Handle	12	Ounces	50
879	Upper Part of Upright	17	Ounces	40
880	Coupling for Upright	21	Ounces	.20
882	Gear Case Cover	27	Ounces	75
883	Intermediate Gear and Pinion	12	Ounces	2 00
884	Balance Wheel and Spindle	22	Ounces	1 00
885	Drive Gear and Spindle	19	Ounces	1.50
886	Gear Case	66	Ounces	1.00
887	Gear Head Casting	20	Ounces	1 50
888	Ball and Ball Cap	1	Ounce	.75
889	Small Cog	1	Ounce	.25
890	Large Cog	1½	Ounce	.50
891	Gear Cap Screw	1/16	Ounce	05
892	Grip Handle Screws, Each	1	Ounce	.05
893	Grip Handle	11	Ounces	.35
894	Gear Case Screws, Each	1	Ounce	.05
	4-inch Ferrule for No. 871 Shaft	4	Ounces	25
	5-inch Ferrule for No. 871 Shaft	13	Ounces	50

Balance Can Only be Had by Shipping Direct From Factory.



Parts for Stewart No. 9 Ball-Bearing Sheep Shearing Machine.

Prices on Request

FOR No. 2 CHICAGO

No.		Net Weight		Each
700	Shaft Without Chain 8½ Ft. Long	5 5/16	Pounds	$3 25
701	Chain for Shaft 6½ Feet Long	17½	Ounces	1.95
	6½-foot Shaft and Chain Complete, 75 Cents Per Foot	7	Pounds	4.88
702	Spiral Spring (Without Cover)	4½	Pounds	1.80
703	3-inch Ferrule For No. 700 Shaft	12	Ounces	.50
704	Gear Cap	6	Ounces	.50
705	Gear Head Casting	20	Ounces	1 50
706	Bracket	12	Pounds	2 00
707	Tripod	10½	Pounds	2 00
708	Drive Wheel	11¼	Pounds	2 50
709	3-inch Ferrule for No. 700 Shaft	7	Ounces	25
710	Balance Wheel	24	Ounces	1 00
711	Crank	34	Ounces	50
712	Wood Handle for Crank	4	Ounces	15
713	Axle	13	Ounces	50
714	Handle Bolt	6	Ounces	25
715	Upright	4	Pounds	1 00
716	Pinion	3	Ounces	50
717	Eye Spindle	4	Ounces	50
718	Pinion Shaft	5	Ounces	.50
719	Small Cog	1	Ounce	25
720	Large Cog	2	Ounces	.50
721	Hexagon Nut for Handle Bolt	1	Ounce	05

FOR STEWART No. 9

No.		Net Weight		Each
24-9	Long Tube	14	Ounces	$1 50
25-9	Long Spindle, Complete	13	Ounces	2 00
26-9	Short Tube	8	Ounces	50
27-9	Short Spindle	6	Ounces	75
30-9	Yoke	5	Ounces	1 00
30-9X	Yokes, Each	5	Ounces	1 00
31-9	Cog, Threaded	1	Ounce	40
31-8	Cogs, Not Threaded, Each	1	Ounce	40
32	Upper Tube Clamp	1	Ounce	25
32-A	Lower Tube Clamp	1	Ounce	.25
33	Leather Guard	2	Ounces	.15
33B	Hook for Leather Guard	1	Ounce	.02
34	Bayonet Ferrule	2	Ounces	.25
35	End of Long or Short Spindle	2	Ounces	.25
36	End of Short Spindle Pin	1/32	Ounce	02
37	Back Bushing	1	Ounce	10
862	Leg Bracket	41	Ounces	35
864	Cotter Pin		Ounce	02
865-9	Balance Wheel and Spindle	40	Ounces	1 00
867	Bracket Stand and Nut	2	Ounces	05
868	Legs, Each	30	Ounces	35
875	Hexagon Nut for Crank	¼	Ounce	.05
877	Crank Handle	12	Ounces	50
879	Upper Part of Upright	17	Ounces	40
880	Coupling for Upright	21	Ounces	.20
882-9	Gear Case Cover	49	Ounces	.75
883	Intermediate Gear & Pinion	12	Ounces	2 00
885	Drive Gear and Spindle	19	Ounces	1.50
886-9	Gear Case	66	Ounces	1.00
892	Grip Handle Screws, Each	¼	Ounce	.05
893	Grip Handle	11	Ounces	25
894	Gear Case Screws, Each	1	Ounce	.05
895	Set Ball Bearings for Gears	½	Ounce	.15
896	Set Ball Bearings for Spindles	½	Ounce	.10

~~STILETTO~~ TOOL CHESTS

WITH 23 HIGHEST GRADE GUARANTEED TOOLS

Case is made of selected spruce, varnished and hand rubbed. Hinged lid. Brass plated steel hinges. Brass plated padlock with two brass keys.

Outside dimensions of case—27½ inches long, 12 inches wide, 8 inches deep.

CONTENTS

No. S25 ~~STILETTO~~ Tool Set

HOUSEHOLD TOOL SET

1 ~~STILETTO~~ panel saw, S8P, 20-inch.
2 ~~STILETTO~~ socket firmer chisels, S85, ¾, 1-inch.
1 ~~STILETTO~~ nail set, S60, 4/32-inch.
1 " mill file, 8-inch, with handle.
1 pr " combination pliers, nickel plated, S100, 6-inch.
1 " plane, S24.
1 " nail hammer, S12.
1 " screw driver, S66, 6-inch.
1 " brace, SBC8.
4 Bates auger bits, ¼, ⅜, ½, ¾-inch.
1 Stanley scratch awl, No. 1.
1 ~~STILETTO~~ carpenter pencil, S700.
1 F. P. M. coping saw.
1 Standard square, 10.
1 pr P., S. & W. wing dividers, 35, 6-inch.
1 Standard mallet, No. 1.
1 Stanley marking gauge, 61.
1 Stanley level, 102, 16-inch.
1 Stanley rule, 68.
1 Zinc oiler, 00
1 1 oz Le Pages glue
25 articles.

No. S25—~~STILETTO~~—complete with 25 high grade tools and other accessory articles .. Per set $35 00

Weight of case with tools, 25 lbs.

~~STILETTO~~ HOUSEHOLD TOOL CHESTS

CONTENTS

No. S20 ~~STILETTO~~ Household Tool Set

1 ~~STILETTO~~ panel saw, S7P, 22-inch
1 " hatchet, SGC2.
1 " nail hammer, S12.
1 " screwdriver, S66, 6-inch.
1 " brace, SBC8.
4 " auger bits, ¼, ⅜, ½, ¾-inch, Irwin pattern.
2 ~~STILETTO~~ cabinet chisels, S85, ½ and 1-inch
1 " Plane, S24.
1 " back saw frame, S1, with extra blade.
1 Standard square, 10.
1 Boxwood rule, 68.

No. S20—~~STILETTO~~ Household Tool Chest—Complete with 15 high grade tools and other accessory articles... .....Each $32 50

Packed in same chest as No. S25. Weight of chest with tools, 18 lbs.

TOOL CHESTS

Case is made of selected spruce, varnished and hand rubbed. Hinged lid. Brass plated steel hinges. Brass plated padlock and two keys.

FAVORITE

Outside dimensions of case, 27½ inches long, 12 inches wide, 8 inches deep.

WITH 23 HIGH GRADE TOOLS

CONTENTS

No. 15 Favorite Tool Chest

1 Legal tender saw, No. 100, 20-inch.
1 Standard hammer, No. 90.
1 Sterling shingling hatchet, No. S2.
1 P. S. & W. chisel, 71, ¼-inch with handle.
1 P. S. & W. chisel, 71, ½-inch with handle.
1 P. S. & W. chisel, 71, 1-inch with handle.
1 Plain brace, No. 508, 8-inch.
1 Pair button pliers, No. 90, 6-inch.
1 Bates auger bit, 4/16.
1 Bates auger bit, 8/16.
1 Bates auger bit, 12/16.
1 Stanley handled brad awl, No. 3.
1 Set awls and tools, No. 160.
1 Stanley block plane, No. 110.
1 Rule, No. 68.
1 Stanley level, No. 102, 16-inch.
1 Agricultural wrench, 8-inch.
1 Leader screwdriver, 6-inch.
1 Screwdriver bit, No. 200.
1 Stanley try square, No. 20, 6-inch.
1 Compass saw, No. 7, 12-inch.
1 Nail set, No. 93.
1 Zinc oiler, No. 00.
1 Gimlet, No. 2.
1 Carpenter pencil.
1 Package wire brads.
1 Package Le Pages glue, 1 oz.

No. 15—Complete with 23 tools and other accessory articles.... ..Per set $30.00

Weight of case with tools, 20 lbs.

OUR SPECIAL

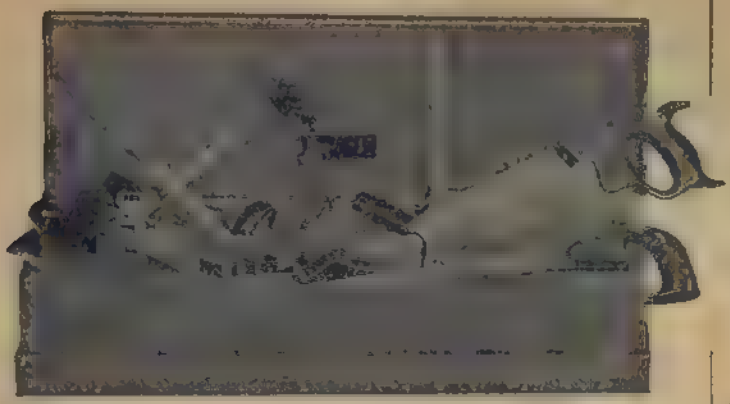
1 Rival hand saw, 88, 22-inch.
1 Cub nail hammer, C1.
1 Cub claw hatchet, CC1.
1 Stanley screwdriver, 70, 6-inch.
1 P. S. & W. chisel, 71, ⅜-inch.
1 P. S. & W. chisel, 71, ½-inch.
1 P. S. & W. chisel, 71, ¾-inch.
1 Bates auger bit, ⅜-inch.
1 Bates auger bit, ½-inch.
1 Bates auger bit, ⅝-inch.
1 Standard gimlet, 353.
1 Brace, 2008.
1 Stanley block plane, 110.
1 Hack saw frame, 50.
1 Boxwood rule, 68.
1 Steel square, 10.

No. 22—Our Special—Complete with 16 tools .....Each $30.00

Packed in same chest as No. 15. Weight of case with tools, 18 lbs.

TOOL CHESTS

PERFECTION



Outside dimension of case, 26 inch long, 8 inch wide, 6 inch deep.

Case is made of selected spruce, varnished and hand rubbed. Hinged lid. Brass plated steel hinges. Brass plated padlock with two keys

CONTENTS

1 Legal tender saw, 18-inch.
1 Sterling hatchet, No. SS1.
1 Bell face hammer, No. 015.
1 Leader screw driver, 4-inch.
1 Stanley plain brace, No. 508.
1 Bates auger bit, ¼-inch.
1 " auger bit, ½-inch.
1 Agricultural wrench, 6-inch.
1 Pocket level, No. 40.
1 Compass saw, No. 7, 10-inch.
1 Syracuse nail set, No. 93.
1 Carpenter pencil.
1 ½-lb package brads.
1 Stanley Handled brad awl, No. 3
1 " try square, No. 20, 4½-inch.
1 P S & W chisel, 71, ⅜-inch, with handle
1 P. S. & W. chisel, 71, ½ inch, with handle
1 Stanley block plane, No. 101.
1 Nail gimlet, No. 2.
1 Rule, No. 65.

No. 10—Complete, with 18 tools . . . . . Per set $20 00

Weight of case with tools, 18 lbs.

BOYS DELIGHT

Outside dimensions of case, 26 inch long, 8 inch wide, 6 inch deep.

Case is made of selected spruce, varnished and hand rubbed. Hinged lid. Brass plated steel hinges. Brass plated padlock with two keys.

CONTENTS

1 Legal tender saw, 16-inch.
1 Cast steel hatchet, No. K1.
1 Leader screw driver, 4-inch.
1 ball brace, No. 30, 8-inch.
1 Stanley handled brad awl, No. 3.
1 Bates auger bit, ¼-inch.
1 " auger bit, ½-inch.
1 Stanley try square, No. 20, 4½-inch.
1 Bell face hammer, No. 015.
1 Rule, No. 65.
1 Pair pliers, No. Cee Tee, 6-inch.
1 P. S. & W. chisel, 71, ⅜-inch, with handle.
1 P. S. & W. chisel, 71, ½-inch, with handle
1 Stanley block plane, No. 101.
1 Nail gimlet, No. 2.
1 Carpenter pencil.

No. 5—Complete with 15 tools . . . . . Per set $15.00

Weight per case with tools, 16 lbs.

BOYS SPECIAL

Outside dimensions of case, 26-inch long, 7¼ inch wide, 5 inch deep.

Case is made of selected spruce, varnished. Hinged lid. Brass plated steel hinges Brass plated padlock with two keys.

CONTENTS

1 Compass saw, 10 inches, No. 7.
1 Brace, No. 30.
1 Hammer, No. 90
1 Screwdriver, No. 10.
1 Stanley Plane, No. 101
1 Rule, No. 65
1 Stanley brad awl, No. 3.
1 Bates auger bit, ¼-inch.
1 " auger bit, ½-inch
1 P. S. & W. chisel, 71, ½-inch, with handle.
1 Stanley try-square, No. 20, 4½-inch.
1 Pair combination pliers, No. Cee Tee, 6-inch.
1 Carpenter's pencil.
1 Gimlet, No. 2.

No. 2—Complete, with 14 tools . . . . . Per set $14.00

Weight per case with tools, 12 lbs.

BENCHES

ALASKA MODEL

Manufactured by E. H. Sheldon & Co., Muskegon, Mich.

Best grade, well seasoned and selected birch thoroughly kiln dried. Mortise and tennon joints reinforced by countersunk bolts.

Working portion of top composed of strips, 1¾x2¼ inches, glued and reinforced by ½-inch bolts.

Finished in rich golden birch with two coats of shellac and one coat waterproof varnish.

Height 32 inches. Top, 52 inches long, 22 inches wide and 2¼ inches thick. Tool recess, 7 inches wide. Equipped with Sheldon No. 10 continuous screw vise or Sheldon rapid acting vise No. 3.

*Sheldon—Without drawer. Weight, 130 lbs. ..... Prices on Application

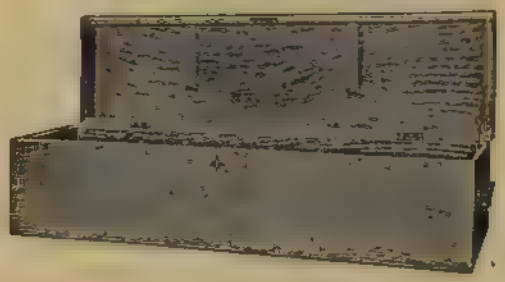
With concealed tail vise ..... " "

With drawer ..... " "

Note—Equipped with Tolls rapid acting vise. Prices on application.

CHESTS

CARPENTERS SHOULDER



Portable, and can be conveniently carried on the shoulder. Made of chestnut, with locked or dove-tailed corners. Brass lock. Elbows to support lid when open. Drop handles and a rack for holding saws. Will hold a 28-inch saw.

No. 20—Inside measurements: Length, 33 inches; height, 8 inches; width, 8 inches; weight each, 11 lbs.

Each $12.00

Four in crate.

CARPENTERS TOOL

Selected hardwood with paneled sides. Brass lock. Leather rings for strap to pass over shoulder. Metal clasps and corners. Saw-rack for holding four saws, including a 28-inch rip saw. Hooks for brace and coping saw. Wood button for try-square. Partitioned tray for bits, chisels and small tools. Space in bottom to hold planes, levels, etc. Will take a steel square with 18-inch tongue.

No. 35—Outside measurements: Length, 34¼ inches. Height, 17 inches. Width, 6 inches. Inside measurements: Length, 33 inches. Height, 15¾ inches. Width, 5 inches. Inside measurements of tray: Length, 33½ inches. Depth, 1¾ inches. Width, 4¼ inches. Weight each, 15 lbs.

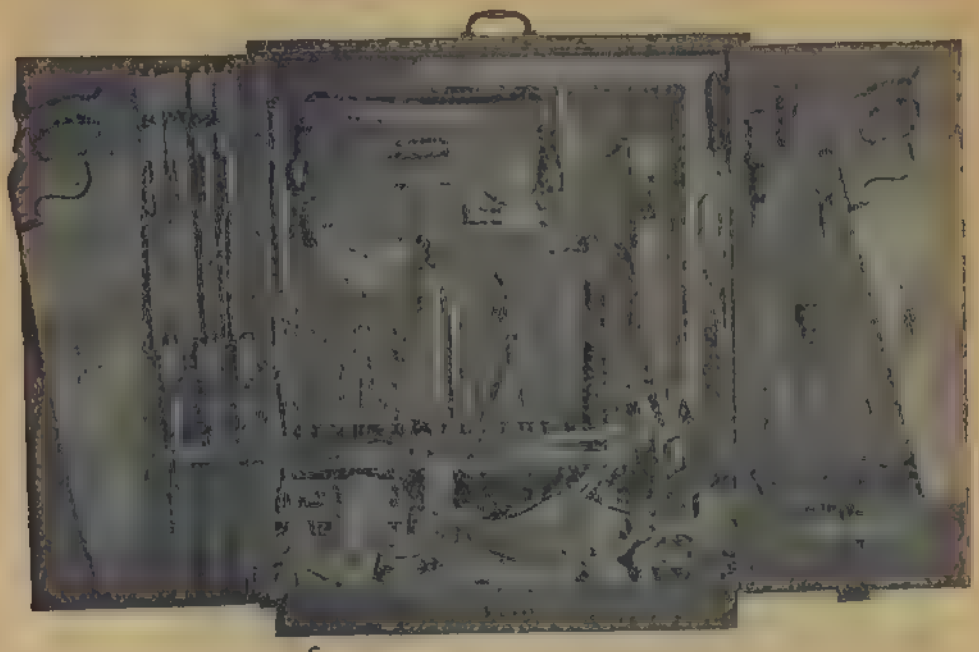
Each $22.00

Six in crate.

*For factory shipment only.

—Stiletto— TOOL CABINETS

WITH 80 HIGH GRADE ARTICLES



Outside dimensions of cabinet, 32 inches high, 26 inches wide, and 10 inches deep.

Cabinet strongly made of selected chestnut, finely varnished, with stained mouldings. Two panel doors, with brass cylinder lock with two steel keys. Brass plated steel hinges. Inside drawers. These cabinets may be fastened to the wall or placed on floor or bench and are easily portable. Each cabinet provided with tool holders to hold everything in place

CONTENTS

No. 880 —Stiletto— Tool Cabinet

1 —Stiletto— panel saw No. S7, 24-inch.
1 —Stiletto— nickel plated combination pliers, S100, 6-inch.
1 —Stiletto— carpenter pincers, 408, 8-inch.
1 " panel saw No. S7, 22-inch.
1 " Adj. H. S. frame, S1.
6 " H. S. blades, 9-inch.
1 " compass saw No. S15, 12-inch.
1 " nail hammer, S11½.
1 " tack hammer, 270.
1 " broad hatchet, SGB1.
1 " brace, SBC8.
7 " auger bits, Irwin pattern, 4/16, 5/16, 6/16, 8/16, 10/16, 12/16, 16/16.
1 " square, S14.
1 " expansion bit, S8.
6 " chisels, S54, ¼, ⅜, ½, ¾, 1, 1½.
1 " gouge, 70, ¾.
3 " screw drivers, 86. 3, 6, 8-inch.
1 Millers Falls awl and tools, MF4.
1 F. P. M coping saw.
1 Washita mounted oil stone, WM6.
1 Lily White oil slip, LS.
1 Stanley cabinet scraper, 3x5.
1 P S and W. wing divider, 8-inch.
1 Stanley scratch awl, No. 1
2 —Stiletto— slim tapers, 4½ and 6-inch, with handles.
1 —Stiletto— jack plane, S5
1 —Stiletto— carpenters pencil, S700
1 " mill file 8 inch with handle
1 " draw knife, S50, 8-inch.
1 " block plane, S9½.
1 " nail set, S60, 4/32.
1 Standard gimlet, 853.
1 Asses Skin measuring tape, 713, 50-ft.
1 —Stiletto— pocket snip, S35.
1 Buck Bros. screw driver bit, 205.
1 Rose counter sink bit, 6.
1 Standard reamer bit, 19"
1 Standard carpenters mallet, 1.
2 Snell gimlet bits, 2/32, 4/32.
1 Stanley marking gauge No. 197.
5 Bit stock drills, No. 200, ⅛, 5/32, ¼, 7/32, ⅜
1 Stanley level, 00, 22-inch.
1 Boxwood rule, 68.
1 Stanley try square, 20, 6
1 Stanley T bevel, 18, 6-inch.
2 Carriage clamps, No. 14 4-inch
1 Zinc oiler, No. 3.
1 Gill Le Pages glue.
6 Sheets sand paper.
3 Softwood file handles, No. 7.

No. 880—Complete with 80 highest grade guaranteed tools and other accessory articles..... ....Each $150.00

Weight of cabinet with tools, 70 lbs. Crated for shipment, 90 lbs.

—Stiletto— TOOL CABINETS

WITH 46 HIGH GRADE ARTICLES

Outside dimensions of cabinet, 30⅞ inches high, 24⅞ inches wide, 8⅞ inches deep.

Cabinet strongly made of selected chestnut finely varnished, with stained mouldings. Two panel doors with brass cylinder lock and two steel keys. Brass plated steel hinges. Inside draw ers. These cabinets may be fastened to wall or placed on floor or bench and are easily portable. Each cabinet provided with tool holders to hold everything in place.

CONTENTS

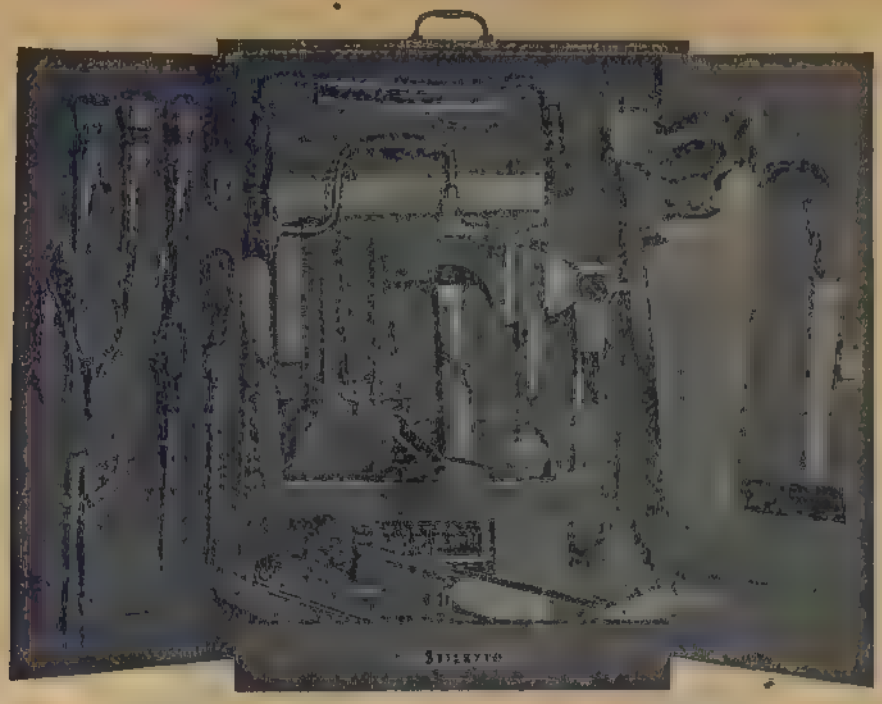
No. S52 —Stiletto— Tool Cabinet

1 —Stiletto— panel saw No. S7, 22-inch.
1 —Stiletto— nail hammer, S12.
2 —Stiletto— screw driver, 66, 4 and 6-inch.
1 —Stiletto— carpenter pincers, 408, 8-inch.
1 —Stiletto— carpenter pencil, 700.
1 " compass saw, S15, 12-inch.
1 " shingling hatchet, SBS1.
1 " brace, S1BC8.
3 " auger bits, Irwin pattern, ¼, ⅜, ½.
3 " chisels, S54, ¼, ½, ¾.
1 " combination nickel plated plier, S100, 6-inch.
1 " square, S14.
1 " drawing knife, 50-8-inch.
1 FPM coping saw.
1 Millers Falls awl and tool, MF4.
1 Washita oil stone mounted, WM6.
1 Stanley cabinet scraper, 3x5.
1 P., S. & W wing driver, S10, 8-inch.
1 Stanley scratch awl, No. 1.
1 Stanley brad awl, 3.
1 —Stiletto— snip, S7.
1 —Stiletto— mill file, 8-inch with handle.
1 —Stiletto— softwood file handle, No. 1.
1 —Stiletto— H. S. frame with blade, S1.
1 —Stiletto— nail set, S60, 3/32.
1 " slim taper file, 6-inch with handle.
1 " block plane, S110.
1 " jack plane, S26.
1 Asses Skin tape, 713, 50 feet.
1 Bucks screw driver bit, 205.
2 Snells gimlet bits, 4/32, 8/42.
1 Rose countersink bit, 6.
1 Standard reamer bit, 195.
1 Stanley marking gauge, 197.
1 Standard carpenter mallet, No. 1.
1 Stanley level, No. 104.
1 Boxwood rule, 68
1 Stanley try-square, 20, 6-inch.
1 Zinc oiler, No. 2.
1 gill Le Pages glue.
6 Sheets sand paper.

No. S52—Complete with 46 highest grade tools and other access ory articles . . . . . Each $80.00

Weight of cabinet with tools, 70 lbs. Crated for shipment, 90 lbs.

STILETTO TOOL CABINETS



WITH 32 HIGH GRADE ARTICLES

Outside dimensions of cabinet, 26¾ inches high, 19¾ inches wide, 8⅞ inches deep.

Cabinet strongly made of selected chestnut, finely varnished, with stained mouldings. Two paneled doors, with brass cylinder locks and two steel keys. Brass plated steel hinges. Inside drawers. Each cabinet provided with tool holders to keep everything in place. These cabinets may be fastened to wall or placed on floor or bench and are easily portable.

No. S36 STILETTO Tool Cabinet Containing:

1 STILETTO panel saw, No. S8P, 18-inch.
2 STILETTO screw drivers 66, 4 and 6-inch.
1 " combination plier, nickel plated, S100, 6-inch.
1 " brace, No. SBC8, 8-inch.
1 " compass saw S15, 12-inch.
1 " nail hammer S12.
1 " shingling hatchet SBS1.
3 " auger bits, Irwin pattern, ⅜, ½, ¾.
1 " drawing knife, No. S50, 8-inch.
3 " bevel edge chisels, S54, ¼, ½, ¾.
1 Millers Falls awl and tool, MF4.
1 Lily-White oil stone, LW6.
1 Stanley cabinet scraper, 3x5.
1 P. S. and W. wing divider, S10, 8-inch.
1 F. P. M. coping saw.
1 STILETTO mill file, 8-inch.
1 STILETTO slim taper file, 6-inch.
1 STILETTO nail set, S60, 4/32
1 " jack plane, S26.
1 " block plane, S110.
1 Buck Bros. screw driver bit, 205
1 Snells gimlet bit, 4/32.
1 Softwood file handle, No. 1.
1 Stanley marking gauge, 65.
1 Stanley level, 102.
1 Rule, 68.
1 Zinc oiler, No. 2.
1 1-oz. Le Pages glue

No. S36—Complete with 32 highest grade tools and other accessory articles ..... Each $70.00

Weight of cabinet with tools, 58 lbs. Crated for shipment 70 lbs

WITH 24 HIGH GRADE ARTICLES

Same style cabinet as No. S36.

No. 26 STILETTO Tool Cabinet Containing:

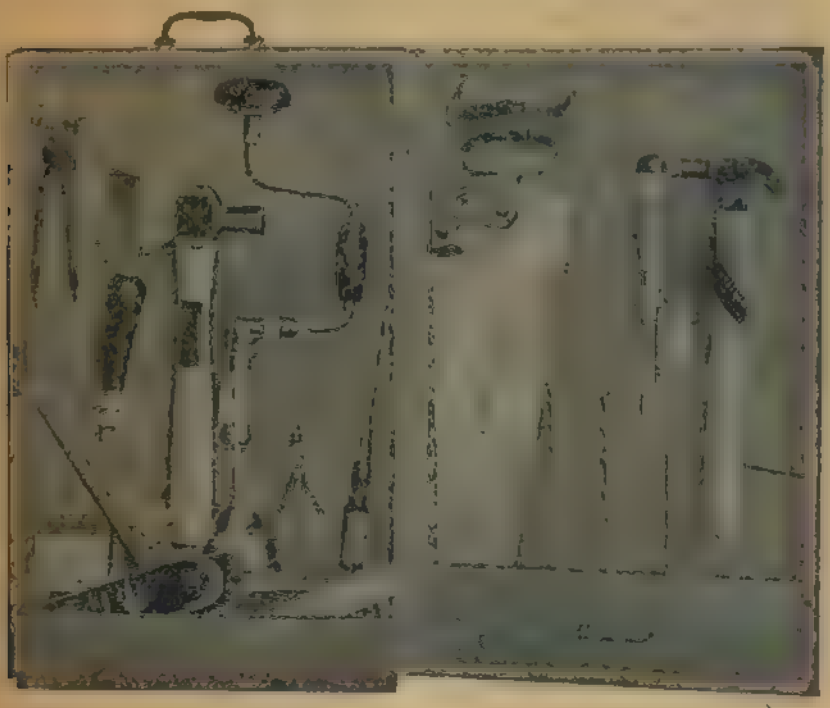
1 STILETTO panel saw, S8P, 18-inch.
1 STILETTO mill bastard file, 8-inch.
1 " nail hammer, S12.
2 " auger bits, Irwin pattern, ⅜, ½.
1 " drawing knife, No. S50, 8-inch.
2 " chisels, S54, ¼, ¾-inch.
1 " screw driver, 66, 6-inch.
1 " shingling hatchet, SBS1.
1 " brace SBC8.
1 Millers Falls awl and tool, MF4.
1 Snell gimlet bit, 4/32.
1 Boxwood rule, 68.
1 STILETTO slim taper file, 6-inch.
1 " nail set, S60, 4/32.
1 " plane, S24.
1 Lily White oil stone, LW6.
1 Stanley marking gauge, 62.
1 Stanley level, 102
1 Stanley try square, 20, 6-inch.
1 Softwood file handle, No. 1.
1 Zinc oiler, No. 2.
1 1-oz. can Le Pages glue.

No. S26—Complete with 24 highest grade tools and other accessory articles ..... Each $45 00

Weight of cabinet with tools, 38 lbs. Weight of cabinet crated for shipment, 46 lbs.

STILETTO TOOL CABINETS

Cabinet strongly made of selected chestnut, finely varnished, with stained mouldings. Brass cylinder lock with two brass keys. Brass plated steel hinges. Inside drawers. Each cabinet provided with tool holders to hold everything in place. Can be fastened on wall or placed on floor or bench and are easily portable.



Outside dimensions of cabinet, 22 inches high, 14 inches wide, 5½ inches deep.

WITH 14 HIGHEST GRADE GUARANTEED TOOLS

CONTENTS

1 ~~Stiletto~~ panel saw, No. S8P. 18-inch.
1 ~~Stiletto~~ slim taper file, 6-inch with handle.
1 " nail hammer, No. S12.
1 " shingling hatchet, SBS1.
1 " brace, No. SBC8, 8-inch.
1 " auger bit, S8, ⅛-inch.
1 " auger bit, S12, ¾-inch.
1 " chisel, No. 54, ½-inch.
1 " flat nose plier, No. S3200, 6-inch.
1 " carpenters pincer, No. 408, 8-inch.
1 " block plane, No. S110.
1 " level, No. 102, 14-inch.
1 Millers Falls awl and tool, No. MF4.
1 Boxwood rule, No. 68.
1 Zinc oiler, No. 2.
3 Sheets sand paper.
1 Package wire brads.
19 articles.

No. S14—Complete with 14 highest grade tools and other accessory articles.

Each $40.00

Weight of cabinet with tools, 20 lbs.
Crated, 28 lbs

RIVAL

Above cabinet with the following tools.

CONTENTS

No. R14 Rival Tool Cabinet

1 Rival panel saw, No. 88, 18-inch.
1 Hack saw frame, No. 50.
2 Hack saw blades, Star, 9-inch.
1 Cub shingling hatchet, No. CS1.
1 Cub nail hammer, No. C2.
1 Plain brace, No. 508, 8-inch.
1 Bates auger bit, 4/16-inch.
1 Bates auger bit, 6/16-inch.
1 Bates auger bit, 8/16-inch.
1 P. S. & W. chisel, No. 111, ½-inch.
1 P. S. & W. chisel, No. 111, 1-inch.
1 Awl and tool, No. 160.
1 Great Western mill file, 8-inch.
1 Great Western slim taper, 6-inch.
2 Soft wood file handles, 4 and 6-inch.
1 Leader screw driver, No. 80, 6-inch.
1 P. S. & W. draw knife, No. 50, 8-inch.
1 Stanley plane, No. 24.
1 Stanley level, 102, 14-inch.
1 Nail set, S60, 4/32.
1 Unmounted oil stone, W6.
1 Stanley marking gauge, 61.
1 Rule, 68.
1 Stanley try square, No. 20, 6-inch.
1 Zinc oiler, No. 2.
27 articles.

No. R14 Rival Tool Cabinet—Complete with 28 tools and accessories ..... Each $40 00

Weight of cabinet with tools, 28 lbs. Weight of cabinet crated for shipment, 36 lbs.

JUNE SPECIALS

Hot, dusty weather always results in an increased demand for soaps. Supply your needs now and be prepared to meet requirements.

POPULAR PRICED TOILET SOAPS

Extensively advertised brands of toilet and bath soaps which lend themselves to attractive display and sell on sight.

Turkish Bath 1⅝ oz. milled cream pink and green
1Y4008—Asstd. 3 doz. in box
Gro. $4.35 Doz **38c**

Olive Oil Castile Square cake green French milled
1Y4184—2 oz. 3 doz. in box Doz **45c**
1Y4180—3½ " 3 " " " **69c**

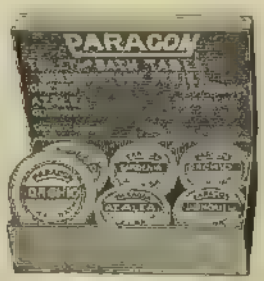
Bridal Rose & Violet [illegible] white and brown
1Y4151—Asstd 2 doz. in box
Doz. **57c**

"Monogram" Bath Tablets [illegible] oz. round tablets No. 1 milled stock, pleasing odors, three colors and odors, peroxide white, geranium pink, elderflower green
1Y4131 Asstd 3 doz. in wood box.
Gro. $9.35 Doz **82c**

Graham's Bath Tablet Pure white perfumed large round cake
1Y4044 1 doz. in box
Doz. **$1.15**

Kirk's Lilac Bath Tablet Round cake pure milled stock, assted. creams, lilac odor
1Y4137 1 doz. in box
Doz **90c**

"Paragon" Garden Series—3½ oz. square tablets [illegible] scented and delicately colored, 4 kinds assted. Bouquet (white), Jasmine (yellow), Violet (purple), Heliotrope (brown) and Lavender.
1Y4[illegible] 1 doz. in hinged display box
Doz **95c**



"Paragon" Conservatory Series—3½ oz. round tablets delicately scented and colored, 4 kinds assted. Gardenia (white), Orchid (pink), Jonquil (lemon) and Azalea (purple)
1Y4270—1 doz. in hinged display box
Doz **95c**

"Paragon" Peroxide Antiseptic Soap For toilet and bath, highest quality and purity obtainable, contains peroxide, delicate pink color, fine odor
1Y4200—1 doz. in box
Doz **95c**

"Quaker Bouquet"—3½ oz. flat oval cake, [illegible] milled stock, [illegible] white, pink and green perfumed
1Y4133—3 doz. in wood box
Gro. $9.35 Doz **85c**

JERGENS' VIOLET GLYCERINE SOAP

Free Glass Display Jar 36 sample cakes included free with each gross.

Hexagon shaped, clear glass jar holding 40 cakes, with one cake hermetically sealed in display top. An effective way to show this popular nationally advertised soap.

1Y4117[illegible] Violet glycerine [illegible] transparent [illegible] cake tissue wrapped [illegible] gro. in case with display jar
Gro. **$14.00**

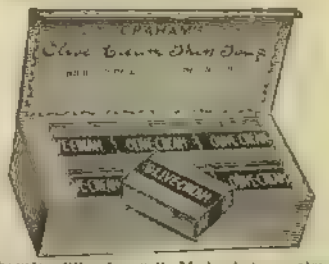
"Big Value" Asst. [illegible] oz. cakes, heavily milled, [illegible] rose and [illegible] pure hand milled stock
1Y4337—Asstd 100 cakes in case
Case **$4.10**

JUNE SPECIALS

The demand for bath and toilet soaps always takes an upward trend during the summer months. Be prepared. Order NOW.

BIG SELLING TOILET SOAPS

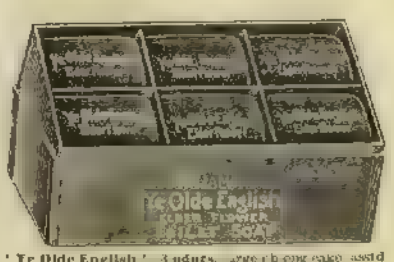
Six well known brands that are always in demand. Give these soaps prominent display and see how suddenly the volume of business increases



Graham's "Olive Cream"—Made of olive palm and cocoanut oils as high as soap can be made. Highly recommended for its splendid quality. Each cake wrapped and banded.
1Y4048—1 doz. in display box. Doz. **$1.08**

"Battle Creek" Sanitary—Cake a delightful and healing, recommended by physicians and nurses, wrapped 3 cakes in box.
1Y4074—1 doz. (4 boxes) in pkg. Doz. **$1.30**
Gro. $15.00

"Del Gloria" Olive Castile—4 oz. white pure olive castile Spanish process, square cuts.
1Y4058—1 doz. in box. Box **$1.50**



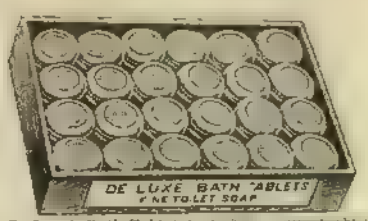
"Ye Olde English"—3 odors, each cake assid elderflower, oatmeal and honey.
1Y4234—Assid. 1 doz. in carton. Doz. **$1.75**

"Remmo" Sterilized—Well known, fine milled, scented toilet soap, double wrapped, sanitary package.
1Y4380—50 in case. Case, **$3.75**

"Sweetheart"—White French milled, each in carton.
1Y4065—1 doz. in box. Doz. **80c**
1Y4051—50 in case. 5 lbs. Case **$3.55**
1Y4055—100 in case. " **7.00**

BATH AND TOILET SOAP ASSORTMENTS

A variety of soaps that is sufficiently large to meet the demands of any trade. The investment is small and turnover rapid



"De Luxe" Bath Tablet Assl.—1 oz. round tablets highly perfumed, milled stock, 3 kinds, peroxide, white geranium, violet. Each cake packed in fine paper and effectively boxed.
1Y4158—Assid. 6 doz. in case. Doz. $4.68. Doz. **78c**

"American Lady" Bath Tablet Assl.—5 kinds, 3½ oz. round tablets. No. 1 French pebbled stock, perfumed with exotic violet which has a Turkish bath.
1Y4370—Assid. 1 doz. in fine boxes. Doz. $7.20. Doz. **90c**

Monarch Assl. French milled, 2½ oz. oval cakes 4 colors, white, green, oatmeal and violet.
1Y4195—100 assid. in wood case. Case **$3.65**

"VICTORY" TOILET SOAP ASSORTMENT

An assortment which offers variety at small investment

1Y4064—Home variety of Graham's best Olive Cream, peroxide and bath tablets in assid. odors and colors. 30 cakes in box. Case **$2.40**

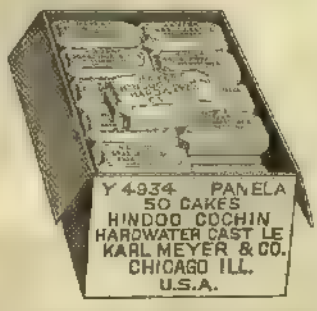
"PARAGON" COCOA CASTILE SOAP

Just the soap people want for their vacations. You can dispose of a large quantity.

1Y4014—Big 5½ oz. cake pure white cocoanut oil soap lathers freely in any water, each cake wrapped. 1 doz. in box. Box **95c**

"HINDOO-COCHIN" HARD WATER SOAP

4.5 oz. cake to use as a dime leader



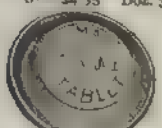
1Y4934—5 oz. cake white hardwater castile made of pure cochin cocoanut oil, lathers freely in any water. 50 cakes in case. Case **$3.70**

TOILET SOAPS

Popular priced numbers and practically all of the nationally advertised brands. These soaps sell on merit—no great effort is required to dispose of them. Dainty scented soaps for the softest of skins or grit soaps for the calloused hand of the mechanic. All are to be found here and the prices are right.

UNWRAPPED MILLED TOILET SOAPS

Turkish Bath — Large oval cake, mottled brown, pink and green.
1Y4084—Asstd. 6 doz. in box
Gro. $4.35 Doz. 38c

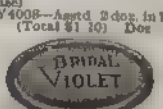


Witch Hazel — 2½ oz. round cake, green, scented stock.
1Y4085—Asstd. 2 doz. in box
Gro. $4.80 Doz. 42c

'Monarch' — Green mottled, 2½ oz. oval cakes, 3 colors, white, oatmeal and green.
1Y4126—3 doz. in box
Gro. $5.25 Doz. 45c

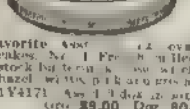
'Big Value' — 4 kinds, 2½ oz. cakes, buttermilk, witch hazel, rose and oatmeal, pure hard mottled stock.
1Y4087—Asstd. 1 doz. cakes in case
Case $4.10

"Leader" Asst—4 kinds, 2½ oz. oval cakes, buttermilk, oatmeal, pink rose, witch hazel.
1Y4008—Asstd. 2 doz. in box
(Total $1.10) Doz 55c



Bridal Rose & Violet — 2 oz. oval cake, white and brown.
1Y4125—Asstd. 2 doz. in box
(Total $1.14) Doz 57c

Kirk's No. 1 Lace — Oval cakes, 1 of grade well known, pure No. 1 Brown mottled.
1Y4109—Asstd. 1 doz. in box
Doz 75c

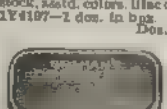


Favorite Asst — 12 oval cakes, 3 of 4 French miller stock bar form, two of hazel with pink and green.
1Y4171—Asstd. 1 doz. in box
Gro. $9.00 Doz 80c

Monogram Bath Tablet — 3½ oz. round tablets. No. 1 milled stock, pleasing odors, three colors and odors, peacock white, geranium, pink elderflower green.
1Y4131—Asstd. 8 doz. in wood box. Gro. $9.35 Doz 82c

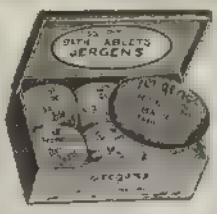
"Quaker Bouquet"—3½ oz. flat oval cake, 1st quality milled stock, 3 colors, white pink and green, per carton.
1Y4183—1 doz. in wood box
1 doz 85c
Gro $9.35

Kirk's Lilac Bath Tablet — Round cake, pure milled stock, asstd. colors, lilac odor.
1Y4197—2 doz. in box
Doz. 90c



Graham's—3½ oz. oval cake, milled, white, perfumed.
1Y4240—1 doz. in box Doz 92c

Graham's Ball Tablet — Pure white perfumed large round cake.
1Y4011—1 doz. in box
Doz $1.15



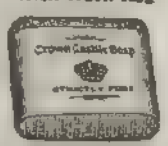
Jergens' Asst—6 odors, toilet and bath (three light colored and green and rose carnation violet purple).
1Y4202—Asstd. 1 doz. in display box Doz 95c
Gro. $11.00

CASTILE SOAPS

Olive Oil Castile — Square cake from French mill, plain Doz.
1Y4143—3 oz., 2 doz. 45c
1Y4150—3½ oz., 3 doz. 89c

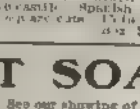
Pure Castile — 4 oz. cake, white milled stock, scented.
1Y4277—1 doz. in box
Doz. 95c

"CROWN" CASTILE SOAP With Wash Rag



"Crown" — Strictly pure soap, each cake wrapped in Turkish wash rag, banded
Doz
1Y4024—1 doz. in box 95c

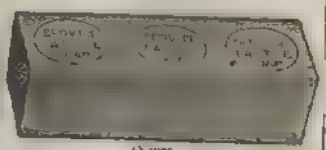
"DEL GLORIA" GENUINE OLIVE OIL CASTILE SOAP



1Y4058—4 oz. white, pure olive castile, Spanish process, in box
Doz $1.50

SERVICE CASTILE SOAPS

1Y4059

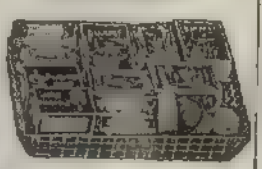


1Y4060

Service Castile—White olive castile, lathers freely
1Y4030—Square cuts. 1 doz. in box..... Doz. 75c

"Service" Castile Asst—White olive castile, lathers freely
1Y4060—In bars, 48 lbs. (6 four lb. bars, 6 two lb. bars and 12 one lb. bars) in case..... Lb. 22½c

TOILET SOAP ASSORTMENTS



Big Variety Wire Basket Asst—8 to 12 kinds, wrapped and unwrapped soaps
1Y4188—Asstd. 3 doz. in 9x14 wire baskets Doz. $2.25
(Total $6.60)

"Victory" Asst—Choice variety of Graham's best Olive Cream Peroxide and Bath Tablets in assted odors & colors
1Y4084—30 cakes in box..... Box, $2.40

STERNE'S VEGETABLE OIL SOAPS

Made exclusively of vegetable oils, absolutely pure, lathers freely in hard or soft water, delicately perfumed embossed wrappers, 4 color litho display box 1 doz. in box

1Y4053—Veg. peroxide
1Y4054—Olive-Palm
1Y4385—Antiseptic
1Y4356—Almond oil
Doz $2c

1Y4033—Asstd. 4 doz. in case.....Doz. 92c

"OLIVET" TOILET SOAP

1Y4238 — Made from olive and cocoanut oils assuring absolute purity. Best for toilet, bath and nursery soap each cake parchment wrapped 1 doz. attractive counter display box

Doz **95c**

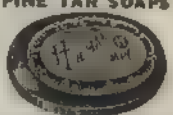
COCOA CASTILE SOAPS

Kirk's Cocoa Castile — Pure white castile of richest quality cocoa oil, lathers freely in hard water, wrapped
1Y4152—1 doz. in box
Doz $1.05
1Y4161—60 cakes in case
Case $4.95

"Ideal" Hardwater Cocoa Castile — 3½ oz. cakes, white "Cochin" cocoa nut oil
1Y4066—100 in case
Case $3.95

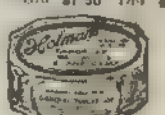
"Koka Palma" — 3 oz. pure vegetable oil soap, green.
1Y4268—100 cakes in case
Case, $4.00
Lots of 5 cases, (freight prepaid to points east of Minneapolis, Iowa, Missouri, Arkansas and Louisiana).
Lots of 5 cases Case $3.95
Lots of 6 cases (freight prepaid to points west of Minneapolis, Iowa, Missouri, Arkansas and Louisiana).
Lots of 6 cases Case $3.95

PINE TAR SOAPS



Pine Tar — 2½ oz. oval cake French mill, oil lathers freely
1Y4262—2 doz. in box
(Total Doz Doz 45c

"Mechanics" — 4½ oz. oval cake pine tar and powdered pumice, French milled
1Y4080—1 doz. in box
Gro. $7.50 Doz 65c



Glycerated Pine Tar — Glycerine soap base for general toilet use, excellent for shampoo remedy in dandruff, each cake wrapped
1Y4458—1 doz. in box
Doz 85c

"PARAGON" TOILET SOAPS

There is a high standard of quality set for "Paragon" soaps and strictly adhered to in their manufacture. Every number is profitable for you.

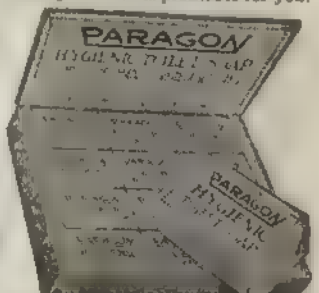
Note: See our showing of "Paragon" toilet preparations on nearby page

1Y4258

1Y4255

1Y4260

1Y4257



1Y4254

Benzoin Skin Soap—3½ oz. oblong cake, as pure as soap can be made with benzoin known for its healing and soothing properties, each cake in patchment wrapper printed
1Y4257—1 doz. in counter display box..... Doz 95c

Conservatory Series—3½ oz. round tablets delicately scented and colored 4 kinds, asstd. Gardenia white, Orchid (pink), Jonquil (lemon) and Azalea (purple
1Y4270—1 doz. in hinged display box ..... Doz 85c

Cocoa Hard Water Castile—Big 5½ oz. cake pure white cocoanut oil soap, lathers freely in any water, each cake wrapped
1Y4014—1 doz. in box Doz. 95c
1Y4015—50 in case Case $3.85

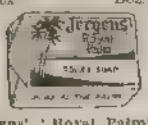
Pure Olive Oil Castile—4 oz. square cuts, made by a Spanish process from virgin olive oil pure and perfect.
1Y4280—1 doz. in box
Doz. 98c

Peroxide Antiseptic Soap—For toilet and bath, highest quality and purity attainable, contains peroxide, delicate pink color, fine odor
1Y4206—1 doz. in box.....Doz. 95c

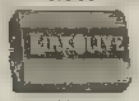
Hygienic Soap—4 oz. cake made of vegetable oils, pure, white antiseptic for toilet and bath, physicians and nurses' use, lathers freely in any water, each wrapped
1Y4245—1 doz. in counter display box .....Doz. $1.05

WRAPPED TOILET SOAPS

"Victoria" Glycerine — 4 oz. cakes, highly scented, in box of assorted odors and colors, each cake wrapped in printed parchment wrapper
1Y4109—Assted 1 doz. in box ... Doz. 84c



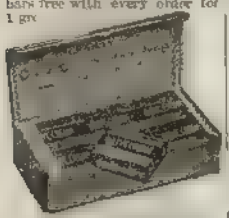
Jergens' "Royal Palm" Made from palm oil, well known for its excellent properties, milled, scented. Attractive lithographed wrapper
1Y4385—1 cake in box Gro. $10.95 Doz. 95c



Kirk Olive—Made from pure vegetable oils, bouquet odor, wrapped and banded.
1Y4278—1 doz. in display box ... Doz $1.10 Gro $12.75

"Olivilla" 3 oz. oval cake of mild olive oil soap, highly scented, each cake wrapped, exceptional quality and value.
1Y4030—1 doz. in box Doz. $1.35
1Y4027—50 in case Case $5.50

Note: We include 1 doz. bars free with every order for 1 gro.



Graham's "Olive Cream" — Made of olive palm and cocoanut oils, a pure soap that lathers highly, recommended for its splendid quality, each cake wrapped and banded.
1Y4018—1 doz. in display box ... $1.00

SWEETHEART TOILET SOAP —In Cartons

White French milled, each in carton
1Y4053—1 doz. in box Doz. 80c
1Y4054—50 in case (5 qts. free) Case $3.65
1Y4055—100 in case Case $7.00

NATIONALLY KNOWN SOAPS

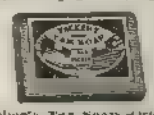
Lifebuoy—Widely advertised as "The Health Soap." Too well known to need description
Case
1Y2614—100 in. case ... $7.90
1Y2615—50 " " ... 4.00

Palmolive—Well known soap for toilet and bath, each cake wrapped
1Y4128—½ gro. in case, G. ... $11.75
1Y4127—3 doz. in case Doz 98c
1Y4129—1 gro. in case Gro. $11.50

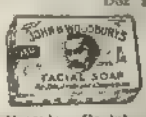
"Coleo" — Made entirely of vegetable oils, highly perfumed, double wrapped.
1Y4245—1 doz. in box. Doz $1.10

"Jap Rose"—The famous transparent toilet and bath soap, each in carton
1Y4... 3—1 doz. in display box Doz. $1.10
1Y4101—50 cakes in case Case $4.85
5 case lots Case, $4.75
Note—Free lithographed metal display rack with 100 bars or more if requested in order.

Pears' Glycerine Wrapped.
1Y4039—Unscented 1 doz. cakes in pkg. Doz. $1.58



Packer's Tar Soap—Original and genuine, needs no introduction.
1Y4381—½ doz. in pkg. Doz $2.25



Woodbury's Facial—For skin, scalp and complexion, each with booklet, pure oil of skin Doz.
1Y0130—1 doz. in box $2.35

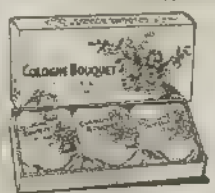
"Cuticura"—Well known medicinal and toilet soap Wrapped, 3 cakes in box
1Y4047—1 doz. (4 boxes) in pkg ... Doz. $2.35

"Resinol"—Medicated, for the skin and complexion,
1Y741...—½ doz. in box Doz. $2.40

"Cashmere Bouquet" Large size, highly scented, cakes in box.
1Y4046—½ doz. (2 boxes in pkg ... Doz. $2.55

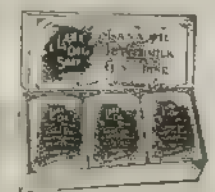
TOILET SOAPS TO RETAIL BY THE BOX

Wrapped soaps 3 in box



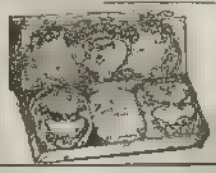
Kirk's "Cologne Bouquet"—Pure white milled stock, heavy bouquet odor, 3 cakes in box
1Y4042—1 doz. (4 boxes) in pkg ... Doz $1.08
Gro $12.50

Jergens' "Violet" Glycerine Tissue wrapped 3 cakes in box
1Y4117 1 doz (4 boxes in pkg Doz $1.20
Gro $13.75



Graham's "Lana Oil"—White French milled, highly perfumed and contains glycerine, lanolin and buttermilk 3 cakes in box
1Y4041—1 doz. (4 boxes) in pkg ... Doz $1.15
Gro $10.75

"Battle Creek" Sanitary—Cake, antiseptic and healing, recommended by physicians and nurses, wrapped 3 cakes in box
1Y4074—1 doz. (4 boxes) in pkg ... Doz $1.30
Gro. $15.00

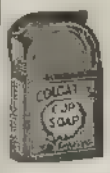


"Kirkwood" Asst — 7 kinds, Kirkwood series, Rousseau, Superba, Scotch Oatmeal and Violet Sachet, assted, 3 cakes in box
1Y4028—1 doz. boxes in pkg Doz. boxes $1.85

"WITCH HAZEL" SHAVING SOAP

STAR VALUE
1Y4392—6 cakes cut 7 to pound quality, equal to best pound rolls, double wrapped, 5 rolls, 35 cakes in box, BOX 35 Asst., $2.25

COLGATE'S SHAVING SOAPS



Cup Cakes Wrapped, each in red litho carton
1Y4... doz. assted Doz 48c
"Barber's Bar" — Perfumed
1Y4110—8 cakes in roll Roll 60c
1Y4111—Box 10 rolls Roll $6.00

WILLIAMS' SHAVING SOAPS AND CREAMS

"Barbers' Bar"
1Y4109—9 cakes in 1 lb. roll Roll 60c
1Y4109A—Box 10 rolls $6.00

"Quick and Easy"—
1Y4103—8 cakes in 1 lb. roll Roll, 60c
Box of 10 rolls $6.00

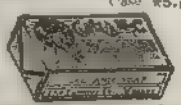
"Mug" Shaving Soap—Each to carton
1Y4197—1 doz. in box Doz. 47c

1Y4015-4105 1Y42...-4

Holder Top Shaving Stick—Latho metal tube, cap top and shaving stick in 1 piece, cap acts as holder for soap when in use.
1Y4015—Small size 1 doz. in box ... Doz 95c
1Y4155—Large size 1 doz. in carton Doz $3.15
Refills—For holder top shaving stick. Each ... carton
1Y4247—Large size 1 doz. in box, ... Doz $2.25
Williams' "Luxury" Shaving Cream—Well known, produces abundant creamy lather 1 doz. in box
1Y4... Small tube Doz 95c
1Y4... Large tube Doz $3.15

LAUNDRY SOAPS

"Swift's Pride" Well known everywhere, yellow
1Y4318A—100 bars in case. Case $5.75
1Y4318B—5 case lots Case $5.70



"Galvanic White" — Johnson's famous easy washer 100 bars in case. Case
1Y4145A—Single case $6.95
1Y4145B—5 case lots 6.90
1Y4145C—10 " " 6.85
1Y4145D—25 " " 6.80
1Y4145E—50 " " 6.70

"CONSUMER" BRAND "WASH EASY"

1Y2824—Cleans clothes without rubbing, guaranteed harmless. Enough for 8 washings in each package, 3 packages plus 1 carton in carton Doz. plus 80c
Gro. $9.25

"LUX" FLAKED SOAP

1Y2618—The famous flaked soap for fine fabrics, 100 cartons to case
Case $11.00

HAND CLEANING SOAPS

"Auto" Mechanics'—3 oz. pumice, a hand cleaner in any water, removes grease and grime, no injury to skin
1Y4143—3 doz. in box Doz. 59c

1Y4383 1Y4385

"Flash"—10 oz. antiseptic hand cleaner in red litho can
1Y4384—4 doz. in box Doz $3.60
1Y4385—1 doz. in box Doz 95c
Whir—14 oz. new known hand cleaner and cream, cut for scouring bath tubs, sinks and woodwork, in red litho cans. Doz.
1Y4386—1 doz. in case 92c
1Y4388—4 doz. in case Doz 89c

STAR VALUE
"Mir-a-kal" Paste—Modern hand paste, known as the "Invisible Glove" fights dirt, does not dry the skin, apply before dirty work, leaves a protective skin cleanser and preservative for daily use by mechanics, painters, printers, garage and factory workers, full directions on each can
1Y4165—7 oz. tin, 3 doz. in case ... Doz. $2.00
(Retail $6.00)
1Y4166—16 oz. tin, 2 doz. in case ... Doz $4.20
(Retail $8.40)

"SUNBEAM" AUTO SOAP

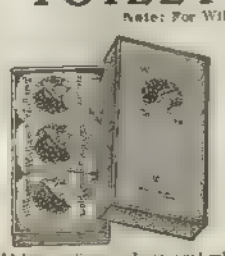
Made of pure vegetable oils, cleans, highly polished surfaces without injury
1Y4926—Tin cans, 10 lbs. lb 14½c
1Y4927—Galvanized pails, 25 lbs. lb 14c
1Y4928—Kegs, 120 lbs. lb 11½c
1Y4929—Bbls., 300 lbs. lb 10c

WILLIAMS' TOILET SOAPS

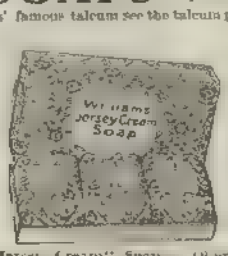
This well known and thoroughly advertised line of soaps is in great demand. These goods lend themselves to attractive display and sell on sight. Show a full line.

Note: For Williams' famous talcum see the talcum powder page nearby

"First Aid to the Infant" — 3 cakes baby soap, assorted odors, wrapped and packed
1Y... 3c. 1 doz. (4 boxes) in pkg Doz $1.20



Cold Cream Soap — Large oval cake, dear paper wrapper, 3 cakes in display box
1Y4230—1 doz. (4 boxes) in pkg Doz $1.35



"Jersey Cream" Soap — Of cream color, thin paper wrapper, 3 cakes in display box
1Y4230—1 doz. (4 boxes) in pkg Doz $1.35

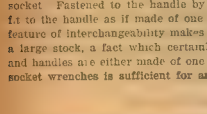
English Lilac Soap — 3 oz. wrapped in thin paper, 3 cakes in display box
1Y4228—1 doz. (4 boxes) in pkg Doz $1.35

"Ye Olde English Soap"—3 odors, age of oak, cake assorted odors, wrapped in thin paper
1Y4... Assted 3 doz. in carton Doz $1.75

VARCO AUTOMOBILE TOOLS

Our sockets are made of an especially selected alloy steel of high physical characteristics, and are subjected to an exacting heat treatment. The object of the modern hardening and tempering process is to create a structure within the material which will resist deformation to the highest degree, and it is in the hands of the skillful hardener to determine the proper heats and duration to which a material has to be subjected in order to arrive at its maximum strength and toughness. These tools are not stamped or pressed of tubing or pipe, but broached into solid material of superior quality, thereby insuring not only highest strength, but accuracy as well. The handles are made of heavy material, ⅝-inch diameter, which allows a liberal offset, and consequently proportionate tightening power, without precipitating a twisting or breaking off, and the tools are practically indestructible. An entirely new departure is the interchangeability of sockets to the handle. The advantage of this feature is evident, as it allows the user the full range of a complete set without the necessity of buying a different handle for each size socket. Fastened to the handle by means of a most simple and at the same time ingenious expansion arrangement, the sockets fit to the handle as if made of one piece, and can only be removed if so intended, yet in a moment's time. The above described feature of interchangeability makes it possible to sell any combination of handles and sockets without the necessity of carrying a large stock, a fact which certainly will be appreciated by any merchant. The stock required for wrenches whose sockets and handles are either made of one piece or fastened solidly together is many times larger, whereas a moderate stock of our socket wrenches is sufficient for any combination.

COMBINATION SOCKET WRENCH SET



This is a small yet very useful set, which takes up but very little space and as a consequence is easily carried. These sockets fit and cover practically any nut in an automobile.

Contents: 1 8-inch offset handle, ⅝-inch diameter. 1 8-inch extension. 1 screw driver. 7 hexagon broached alloy steel sockets, heat treated, thin walls yet of extreme strength and toughness. Sockets easily interchangeable. Patented rigid taper fit of sockets to handle. Size: ⅞-inch screw size to ¾-inch screw size inclusive S. A. E. standard and corresponding U. S. standard sizes. Openings: ½, ⅝, ⅝, ¾, ⅞, 1, 1⅛-inch. Sockets are broached ⅛-inch larger than above dimensions. Handle and extension beautiful black glossy oil finish. Sockets blue tempering color. Rust proof. In a wooden box.

No. 99 ..... Each $6.50

RED BUTTON SPEED WRENCH SET

Contents: 1 red button speed wrench handle, ⅝-inch diameter, 4-inch shank. 1 offset wrench handle, 8-inch. 2 extensions 8-inch and 12-inch long. 1 screw driver. 7 hexagon broached alloy steel sockets, heat treated, thin walls, yet of extreme strength and toughness. Sockets easy interchangeable. Patented rigid taper fit of sockets to handle. Size: ⅞-inch screw size to ¾-inch screw size inclusive S. A. E. standard and corresponding sizes to U. S. standard. Openings: ½, ⅝, ⅝, ¾, ⅞, 1, 1⅛-inch. Sockets are broached ⅛-inch larger than above dimensions. Handles and extensions beautiful black glossy oil finish. Speed button red enamel. Sockets blue tempering color. Rust proof. In a wooden box.

No. 100 ..... Each $9.50

RED BUTTON SPEED WRENCH SET

Contents: 1 red button speed wrench handle ⅝-inch diameter, 4-inch shank. 1 offset wrench handle. 2 extensions 8 and 12-inch long. 1 screw driver. 15 hexagon broached alloy steel sockets, heat treated, thin walls, yet of extreme strength and toughness. Easy interchangeable. Patented rigid taper fit of sockets to handle. Sizes: ⅞-inch screw size to ⅝-inch screw size inclusive S. A. E. standard. ¼-inch screw size to ⅝-inch screw size inclusive U. S standard. ⅞-inch screw size to 1-inch screw size inclusive cap screw size. Openings: ½, ⅝, ⅝, ¾, ⅞, ¾, ⅞, ⅛, ⅞, ⅛, 1, 1⅛, 1⅛, 1¼-inch. These openings will accommodate any size nut and bolt head in any hexagon system. Sockets are broached ⅛ larger than above dimensions. Handles and extensions beautiful black glossy oil finish. Speed button red enamel. Sockets blue tempering color. Rust proof. In a wooden box.

No. 110 ..... Each $14.30

COMBINATION WRENCH PARTS

⅝-inch diameter. Black glossy oil finish. Rust proof. Red enamel button. In a cardboard box.

No. 250—Red button speed wrench handle, 4-inch shank. Each $1.30

No. 251—Red button speed wrench handle, 6-inch shank. Each $1.30

No. 252—Red button speed wrench handle, 12-inch shank. Each $1.45

VARCO AUTOMOBILE TOOLS

COMBINATION WRENCH PARTS

⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 257—Offset handle, 6-inch lever	Each	$0.90
No. 258—Offset handle, 8-inch lever	"	1.00
No. 259—Offset handle, 12-inch lever	"	.90

Six in a cardboard box.

⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 260—T handle, 6-inch shank	Each	$0.90
No. 261—T handle, 10-inch shank	"	1.00
No. 262—T handle, 12-inch shank	"	1.10

Six in a cardboard box.

⅝-inch diameter. Black glossy oil finish. Rust proof.

No. 263—Extension square, 6-inch long	Each	$1.10
No. 265—Extension square, 12-inch long	"	1.20

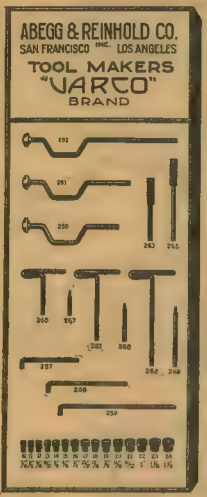
Six in a cardboard box.

This attachment can be used in a regular bit brace for using our sockets. Black glossy oil finish. Rust proof.

No. 267—Bit shank, 4-inch	Each	$0.80
No. 268—Bit shank, 6-inch	"	.80
No. 269—Bit shank, 8-inch	"	.80

Six in a cardboard box.

DEALERS DISPLAY STOCK BOARD



These highly ornamental boards carry the different handles and extensions together with sockets, and in this way they offer a practical solution of display and selling medium. Sockets and handles being interchangeable any desired combination can be obtained and consequently a comparatively small stock will be found sufficient—a welcome feature for the merchant, no doubt.

Sockets

		Each	
12	⅜-inch ..	$0.50	$6.00
12	⅞-inch ..	.50	6.00
12	½-inch ..	.50	6.00
12	⅝-inch ..	.50	6.00
12	⅝-inch ..	.50	6.00
12	¾-inch ..	.50	6.00
12	⅞-inch ..	.50	6.00
12	⅞-inch ..	.50	6.00
12	⅞-inch ..	.50	6.00
12	⅞-inch ..	.65	7.80
12	⅞-inch ..	.65	7.80
12	1 -inch ..	.65	7.80
12	1⅛-inch ..	.75	9.00
12	1⅛-inch ..	.75	9.00

		Each	
6	No. 250 red button speed wrench handles, 4-inch shank	$1.30	$7.80
6	No. 251 red button speed wrench handles, 6-inch shank	1.30	7.80
6	No. 252 red button speed wrench handles, 12-inch shank	1.45	8.70
6	No. 257 offset handles, 6-inch shank	.90	5.40
6	No. 258 offset handles, 8-inch shank	1.00	6.00
6	No. 259 offset handles, 12-inch shank	.90	5.40
6	No. 260 T handles, 6-inch shank	.90	5.40
6	No. 261 T handles, 8-inch shank	1.00	6.00
6	No. 262 T handles, 12-inch shank	1.10	6.60
6	No. 263 extensions, square shank, 6-inch long	1.10	6.60
6	No. 265 extensions, square shank, 12-inch long	1.20	7.20
6	No. 267 bit shanks, 4-inch long	.80	4.80
6	No. 268 bit shanks, 6-inch long	.80	4.80
6	No. 269 bit shanks, 8-inch long	.80	4.80
Board			$6.20
No. 300—Complete			$104.90

Same board with one-half the number of tools.

No. 300½—Complete	$99.50

VARCO AUTOMOBILE TOOLS

MAIN BEARING BOLT WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 355—Complete ..... Each $1.80
Single Sockets . . . . . " .90

FLYWHEEL CAP SCREW WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 370—Complete ..... Each $1.80
Single Sockets—1⅛-inch hexagon..... " .50

HUB CAP SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 880—Complete ..... Each $2.20
Single Sockets—For hub cap..... " .75

CONE ADJUSTING SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 885—Complete ..... Each $2.20
Single Sockets—For cone..... " .75

CYLINDER HEAD BOLT, REAR AXLE HOUSING NUT WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

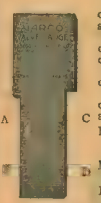
No. 895..... Each $2.40

SPINDLE BODY BUSHING

Tool is placed head first into the opening of the spindle body from below; the legs acting like spring will open up, thereby resting on the bushing. A few taps on the head of the driver will remove the bushing.

No. 500..... Each $1.10

VALVE SETTING GAUGE



A—Distance from top of piston to cylinder casting when intake valve commences to open at beginning of suction stroke.

B—Distance from top of piston to cylinder casting when intake valve closes at beginning of compression stroke.

C—Distance of top of piston above cylinder casting when exhaust valve must close.

D—Distance from top of piston to cylinder casting when exhaust valve commences to open at end of expansion stroke.

No. 505..... Each $1.10

DRIFT PUNCH

No. 510—Drift punch, ⅛-inch octagon by 3-inch hexagon, 4-inch taper.....Each $0.80

No. 511—Drift punch, ¼-inch octagon by 12-inch hexagon, 12 inch taper...Each $1.00

ASSEMBLY BOARD FOR FORD CARS

Represents the latest design in tools for Ford assembly.

While especially constructed to meet the requirements of the assembly mechanic, they are also preferable to the car owner.

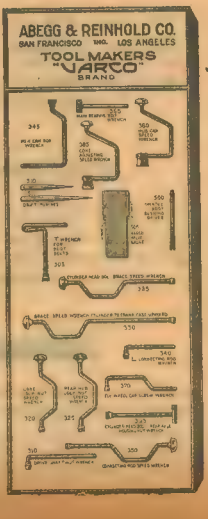
The same material feature of interchangeability, guarantee, etc., goes with these tools.

The display board is beautifully finished and is furnished at an additional charge with above assortment of wrenches

Contents

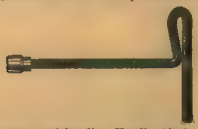
	Each	
3 No 305.....	$1.50	$4.50
3 No 320.....	2.05	6.15
3 No 325.....	1.95	5.85
3 No 330.....	2.00	6.00
3 No 335.....	1.95	5.85
3 No 340.....	1.50	4.50
3 No 345.....	1.90	5.70
3 No 350.....	1.80	5.40
3 No 355.....	1.80	5.40
3 No 370.....	1.80	5.40
3 No 375.....	1.65	4.95
3 No 880.....	2.20	6.60
3 No 385.....	2.20	6.60
3 No 395.....	2.40	7.20
3 No 500.....	1.10	3.30
3 No 505.....	1.10	3.30
3 No 510.....	.80	2.50
3 No 511.....	1.00	3.00
Board		$4.50

No. 600—Complete..$06.50



VARCO AUTOMOBILE TOOLS
FOR FORD CARS

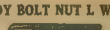
T WRENCH FOR BODY BOLTS, FRONT AND CENTER



⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 305—Complete. Shank, 10-inch long.....**Each $1.50**
Single Sockets—$1\frac{1}{8}$-inch hexagon..... " .50

REAR BODY BOLT NUT L WRENCH



⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 310—Complete. Handle, 10-inch long.....**Each $1.50**
Single Sockets—$1\frac{1}{8}$-inch hexagon..... " .50

CONE LOCK NUT SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 320—Complete. Shank, 4-inch long.....**Each $2.05**
Single Sockets—$1\frac{1}{16}$-inch hexagon..... " .75

REAR HUB LOCK NUT SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 325—Complete. Shank, 4-inch long.....**Each $1.95**
Single Sockets—$1\frac{1}{8}$-inch hexagon..... " .65

BRACE SPEED WRENCH CYLINDER TO CRANK CASE UPWARD

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 330 Complete. Shank, 16-inch long.....**Each $2.00**
Single Sockets—$\frac{7}{8}$-inch hexagon..... " .50

CYLINDER HEAD BOLT BRACE SPEED WRENCH

⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 335—Complete. Shank, 12-inch long.....**Each $1.95**
Single Sockets—$\frac{7}{8}$-inch hexagon..... " .50

L CONNECTING ROD WRENCH

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

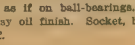
No. 340—Handle, 8-inch long.....**Each $1.50**
Single Sockets—$\frac{5}{8}$ inch hexagon..... " .50

CONNECTING ROD WRENCH NO. 4

⅝-inch diameter steel handle. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 345—Complete .....**Each $1.90**
Single Sockets—$\frac{5}{8}$-inch hexagon..... " .50

CONNECTING ROD SPEED WRENCH



⅝-inch diameter steel handle. Pressed steel knob. Red enameled. Revolves as if on ball-bearings. Knob, red enamel. Handle, black glossy oil finish. Socket, blue tempering color. All parts rust proof.

No. 350—Complete. Shank, 4-inch long.....**Each $1.80**
Single Sockets—$\frac{5}{8}$-inch hexagon..... " .50

AUTOMOBILES

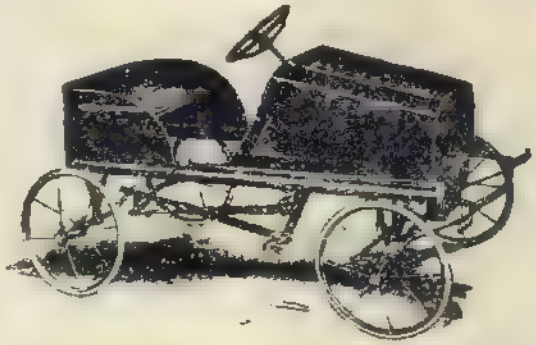
"VELO-KING"

Sides and Hood made from Heavy Sheet Steel and Selected Wood. Adjustable Seat. Furnished with Starting Crank and License Tag. Also Bumper. Black Enameled Gear. Knuckle-steering Front Gear. Large Auto-steering Wheel. Black Enamel Wheels, Fitted with Rubber Tires

Body, 31½ x 13 Ins. Finished in Rich Red with White and Gold Striping. 10-in. Wheels, ¾-in. Tires.

Each $21.67 $11.70

No. 400—Shipping Weight, 36 Lbs.



Body, 32¾ x 13 Ins. Finished in Light Shade of Green with Yellow and Gold Striping. 10-in. Wheels; ¾-in. Tires

Each $24.67 $13.35

No. 401—Shipping Weight 35 Lbs.

Body, 31½ x 13 Ins. Finished in Shade of Orange, with Red and Gold Striping. 10-in. Wheels; ¾-in. Tires

Each $26.67 $14.40

No. 402—Shipping Weight 34 Lbs.

Body, 37½ x 13 Ins. Finished in Shade of Brown, Striped in Yellow, Dark Brown and Gold. 10-in. Wheels, ¾-in. Tires

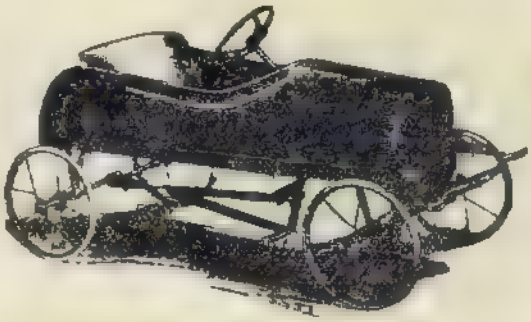
Each $27.77 $15.00

No. 403—Shipping Weight 42 Lbs.

Body, 37 x 13 Ins. Finished in Chrome Yellow, Striped and Trimmed in Black, Red and Gold. Racing Type Hood. 10-in. Wheels; ¾-in. Tires.

Each $29.63 $16.00

No. 404—Shipping Weight, 42 Lbs.



Body, 36½ x 13 Ins. Finished in Dark Brown, Striped and Trimmed in Light Brown, Yellow and Gold. 10-in. Wheels; Nickel-plated Hub Caps; ¾-in. Tires.

Each $30.37 $16.40

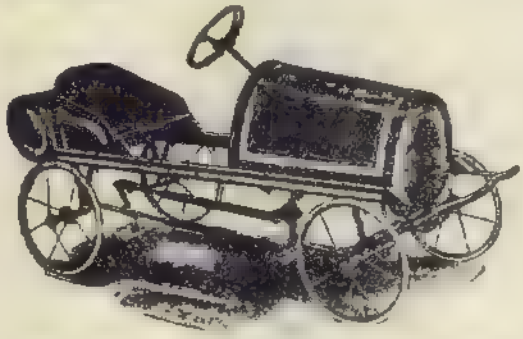
No. 405—Shipping Weight, 42 Lbs.

One in a crate

AUTOMOBILES

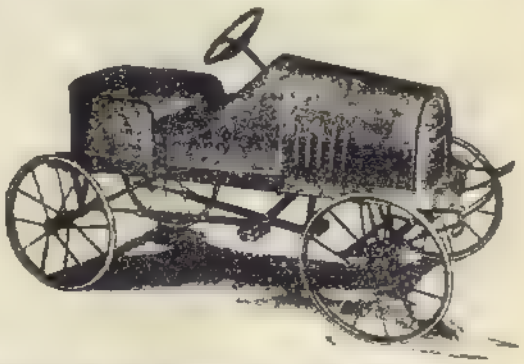
"VELO-KING"

Sides and Hood made from Heavy Sheet Steel and Selected Wood. Adjustable Seat. Furnished with Starting Crank and License Tag. Also Bumper. Black Enameled Gear. Knuckle-steering Front Gear. Large Auto-steering Wheel. Black Enamel Wheels, Fitted with Rubber Tires.



Body, 42½ x 13 Ins. Finished in Dark Green, with Yellow Striping, Trimmed in Gold. Tank Behind Seat. 10-in. Wheels. Nickel-plated Hub Caps, ¾-in. Tires.

		Each
No. 406—Shipping Weight, 45 Lbs	$31 80	**$17.20**



Body, 36½ x 13 Ins. Finished in Light Blue, Striped in White and Gold. 12-in. Wheels. Nickel-plated Hub Caps, ¾-in. Tires.

		Each
No. 407—Shipping Weight, 50 Lbs	$34 72	**$18.75**

Body, 40½ x 13 Ins. Finished in Light Brown, Striped and Trimmed in Green, Red, Yellow and Gold. Upholstered Red Leatherette Seat. 12-in. Wheels, Nickel-plated Hub Caps, ¾-in. Tires.

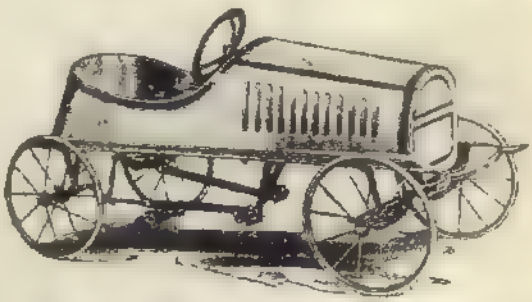
		Each
No. 408 Chain Drive. Shipping Weight 45 Lbs	$39 07	**$21.10**

Body 44½ x 13 Ins. Finished in Bright Yellow with Black Green and Gold Striping and Trimming. 12-in. Wheels, Nickel-plated Hub Caps, ¾-in. Tires.

		Each
No. 409 Shipping Weight 45 Lbs	$41 58	**$22 46**

Body 40½ x 13 Ins. Finished in Beautiful Shade of Red, Striped and Trimmed in Light Blue, Gold and Yellow. Upholstered Red Leatherette Seat. 12-in. Wheels. ¾-in. Tires.

		Each
No. 410—Chain Drive. Shipping Weight 48 Lbs	$43 38	**$23.45**



Body 42½ x 13 Ins. Finished in Battleship Grey with Vermillion, Blue and Gold Trimmings and Striping. Upholstered Red Leatherette Seat. 12-in. Wheels. ¾-in. Tires.

		Each
No. 411—Shipping Weight, 45 Lbs	$46 25	**$25.00**

One in a crate

AUTOMOBILES

"VELO-KING"

Sides and Hood made from Heavy Sheet Steel and Selected Wood. Adjustable Seat. Furnished with Starting Crank and License Tag. Also Bumper. Black Enameled Gear. Jackknife-steering Front Gear. Large Auto-steering Wheel. Black Enamel Wheels, Fitted with Rubber Tires.

Body 36½ x 13 Ins. Finished in Chrome Yellow with Purple Red and Gold Striping and Trimming. Upholstered Red Leatherette Seat. 12-in. Wheels; Nickel-plated Hub Caps; ¾-in. Tires.

Each

No. 412—Chain Drive. Shipping Weight, 50 Lbs. $46.25 **$35.00**

Body 45 x 13 Ins. Finished in Gray, with Green, Red, Blue and Gold Striping and Trimming. Leatherette Upholstered Seat. Door on Each Side of Body. Exhaust Pipes Painted On. 12-in. Wheels, ¾-in. Tires. Nickel-plated Hub Caps.

Each

No. 413. Shipping Weight, 65 Lbs. $57.87 **$31.25**

Body, 40 x 13 Ins. Finished in Royal Blue, with Striping and Trimming in Pale Blue, Red and Yellow. Leatherette Upholstered Seat. Strong Fenders and Rubber-covered Steps. 12-in. Wheels, Nickel-plated Hub Caps, ¾-in. Tires.

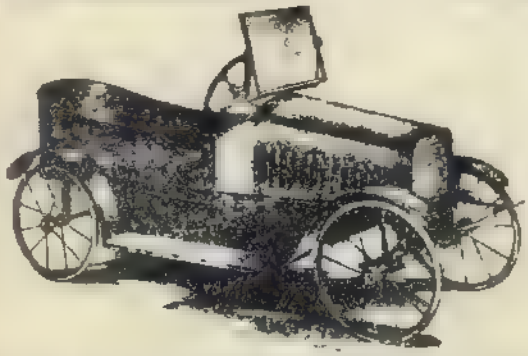
Each

No. 414. Shipping Weight, 60 Lbs. $67.13 **$36.25**

Body, 51 x 13 Ins. Finished in Apple Green, with Dark Green and Chrome Yellow Striping. Strong Fenders. Finished in Yellow Green Striping. Steps Covered with Rubber. Leatherette Upholstered Seat. Neat Strong Windshield. 12-in. Wheels, ¾-in. Tires.

Each

No. 415. Shipping Weight, 70 Lbs. $75.23 **$40.65**



Body, 38 x 15 Ins. Finished in Light Brown, Striped in Dark Brown, Red and Yellow. Strong Fenders, Finished in Light Brown, Dark Brown Trimming. Red Leatherette Upholstered Seat. Door on Each Side, Nickel-plated Catch. Extra Wheel. 14-in. Wheels. Nickel-plated Hub Caps, ¾-in. Tires. Adjustable Windshield.

Each

No. 416—Chain Drive. Shipping Weight, 75 Lbs. $85.46 **$51.55**

One in a crate.

Body 56½ x 13 Ins. Finished in Rich Shade of Red, Striped in Yellow, Blue, and White. Can Be Propelled from Both Seats. 12-in. Wheels, Nickel-plated Hub Caps. ¾-in. Tires.

Each

No. 417—Tandem. Shipping Weight, 70 Lbs. $46.25 **$25.00**

VELOCIPEDES

"VELO-KING"

Prices on Request

Nos 79 to 82

Frame Finished in Beautiful Wine Color, Neatly Striped in Silver Heavily Nickel Plated, Adjustable Handle Bar Fitted with Leather-wrapped Grips Nickel Plated Ball Bearing Pedals Nickel Plated Pedal Hangers and Artillery Nuts on Rear Axle Wide padded Grain Top Strong Adjustable Saddle Double Coil Spring Step-brace on Rear Fork

MAROON ENAMELED WHEELS WITH FINEST QUALITY BALL BEARINGS AND ¾-INCH CUSHION TIRES

Nos.	79	80	81	82
Front Wheel, Ins.	14	16	20	24
Rear Wheel, Ins.	10	12	14	16
Inside Leg Reach, Ins.	14	16	18	20
Shipping Weight, Pounds	18	20	26	30
Each	$31.00	34.25	37.00	40.25

One in a wooden box.

Maroon Enameled Frame of Finest Bicycle Seamless Steel Tubing All Parts Heavily Nickel Plated Adjustable Handle Bar Fitted with Leather-wrapped Bicycle Grips Rat-trap Pedals Juvenile Bicycle Saddle Adjustable, Well Padded and Fitted with Double Coil Springs

MAROON ENAMELED STEEL RIMMED WHEELS WITH FINEST QUALITY BALL BEARINGS AND 1-INCH CUSHION TIRES

Nos.	149	150	151	152
Front Wheel Ins	14	16	20	24
Rear Wheel Ins	10	12	14	16
Inside Leg Reach Ins	14½	17½	20	23
Shipping Weight Pounds	26	30	37	41
Each	$32 40	36 20	44 72	53 24

One in a wooden box

Nos 149 to 152

STEEL EXPRESS WAGONS

Prices on Request

"VELO-KING"

Nos. 818 to 1328.

Corrugated Sheet Steel Body Bottoms made from Selected Kiln Dried Stock Free from Knots Special Construction Wheels All Same Diameter Bottoms Reinforced with Strong Cleats. Rear Gear Fitted with Three Braces or Hangers

Selected Hardwood Tongue, Natural Finish. Body Finished in Red Outside (Stenciled with Word "Express" in Gold), Green Inside. Gears and Wheels Enameled Red

Nos.	818	920	1022	1124	1226	1328	1430	1532
Size of Body, Ins.	8 x 18	9 x 20	10 x 22	11 x 24	12 x 26	13 x 28	14 x 30	15 x 32
Diam. Wheels, Ins.	6	8	8	10	10	12	12	12
Shipping Wt., Lbs.	75	84	96	138	186	200	220	260
Per Dozen	$46.00	51.50	58.75	70.25	82 75	97 75	100 50	117 25

Nos 818, four in a box; balance, two in a box.

Selected Hardwood Tongue Finished in Red Enamel and Fitted with Large Loop Hand Grip Enameled Black Copper-plated Bolts and Washers for Attaching Gears to Body Body Finished in Rich Shade of Blue Outside, Red Inside, Stenciled in Gold "Velo-King Express" Red Enameled Wheels, Black Gears.

Nos.	50	51	52
Size of Body Ins.	12 x 26	14 x 30	15 x 32
Diameter Wheels, Ins.	10	12	12
Shipping Weight, Pounds	161	197	232
Per Dozen	$119.00	135 50	152.00

WITH ½-INCH RUBBER TIRES

Nos.	45	46	47
Size of Body, Ins.	12 x 26	14 x 30	15 x 32
Diameter Wheels, Ins	10	12	12
Shipping Weight, Pounds	196	216	241
Per Dozen	$204.75	225.00	245.25

Two in a wooden box

Nos. 50, 51, 45, 46

SOCKET WRENCHES

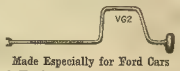
WIRE HANDLE

No. 624—Mossberg. Reversible Ratchet Connecting Rod Wrench .....Each, $2.24

Mottled finish and hardened. Length, 11¼ in. Opening, ⅝ in. and fits all ⅞ in. screws. This wrench is the same type as the No. 623 Mossberg or No. 5810 Walden, except that it has the reversible ratchet feature.

Made Especially for Ford Cars

No. 4003—Black Hawk or
No. VG3—Walden. Short, All Steel Valve Grinder with ⅝ in bar handle, which swivels on cone bearing. Sockets shaped to fit valve heads and fitted with hardened steel pins. Weight, ⅝ lb. .....Each, $0.55

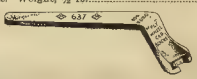


Made Especially for Ford Cars

No. 4002 Black Hawk or
No. VG2—Walden. Long Shank Brace Grinder. An especially desirable tool for garages. Weight, 1¼ lbs. .....Each, $0.88

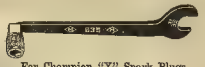
Designed for Use on Transmission Bands (Brake and Reverse) on Ford Cars

No. 4222—Black Hawk or
No. 4564—Walden. Ratchet, ⅛ in. hexagon opening. Opposite end ⅛ in. hexagon opening for use on Champion "X" spark plugs. Weight, ½ lb. .....Each, $1.30



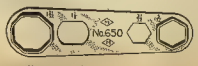
For Fly Wheel Cap Screws on Ford Cars

No. 637—Mossberg. Black, rust-proof finish. Length, 9¼ in. Socket ⅛ in., fitting fly cap screws, body bolts and spring hanger bolts on Ford cars. Weight, 1 lb. .....Each, $1.25



For Champion "X" Spark Plugs

No. 635—Mossberg. Black, rust-proof finish. Length, 10 in. Fits Champion "X" Spark Plugs, cylinder head bolts and all ⅞ in. bolts. Weight, 1 lb. .....Each, $0 90

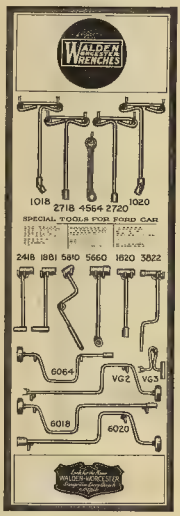


For Hub Caps on Ford Cars

No. 650—Mossberg Weight, ½ lb .....Each, $0.20

No. 645—Mossberg. Reverse and Brake Pedal Tension Spring. Case hardened. Mottled finish. Weight, ¼ lb. ....Each, $0 60

STOCK ASSORTMENT WITH DISPLAY BOARD



No. 400—Blackhawk or
No. 80—Walden Display Board with 80 Wrenches for Ford cars. Weight complete, 153 lbs. .....Per assortment, $52.00

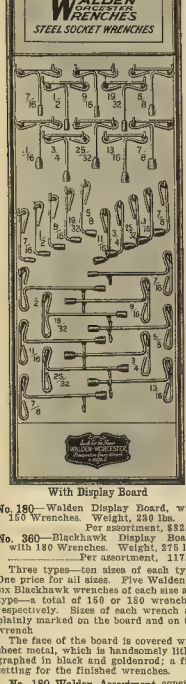
Contains 80 Wrenches, as follows:

5	No. 1620	Each,	$0.70
5	No. 5810	"	.55
5	No. 2718	"	.60
5	No. 2720	"	.60
5	No. 4564	"	1.30
5	No. 2418	"	.80
5	No. 1018	"	2.50
5	No. 1020	"	2.50
5	No. 6064	"	.77
5	No. 6018	"	.88
5	No. 6020	"	.88
5	No. VG2	"	.88
5	No. VG3	"	.55
5	No. 5660	"	1.20
5	No. 1881	"	1.10
6	No. 3822	"	.66

Size of Board, 6 ft. by 2 ft
Note—This Board replaces the old No 78.

SOCKET WRENCH SETS

STOCK ASSORTMENT



With Display Board

No. 180—Walden Display Board, with 150 Wrenches. Weight, 230 lbs. Per assortment, $82.50

No. 360—Blackhawk Display Board, with 180 Wrenches. Weight, 275 lbs. .....Per assortment, 117.00

Three types—ten sizes of each type. One price for all sizes. Five Walden or six Blackhawk wrenches of each size and type—a total of 150 or 180 wrenches, respectively. Sizes of each wrench are plainly marked on the board and on the wrench.

The face of the board is covered with sheet metal, which is handsomely lithographed in black and goldenrod; a fine setting for the finished wrenches.

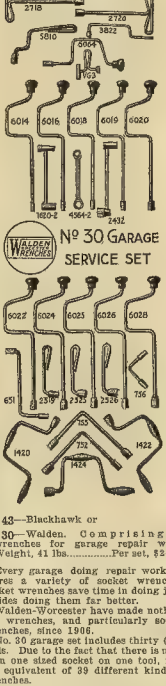
No. 180 Walden Assortment consists of 10 sizes, Hexagonal Sockets, as follows:

	Each.	Total.
50 Offset Wrenches. .	$0.50	$25 00
50 S. S. Tee Wrenches .	.55	27.50
50 L. S. Tee Wrenches .	.60	30.00
150 Wrenches for		$82 50

No. 360 Blackhawk Assortment consists of 180 wrenches, 60 each of the varieties described above

Size of board, 6 ft. by 2 ft.

WIRE HANDLE GARAGE SERVICE SET



No. 43—Blackhawk or

No. 30—Walden. Comprising 30 wrenches for garage repair work Weight, 41 lbs.....Per set, $34.00

Every garage doing repair work requires a variety of socket wrenches. Socket wrenches save time in doing jobs, besides doing them far better.

Walden-Worcester have made nothing but wrenches, and particularly socket wrenches, since 1906.

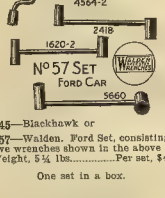
No. 30 garage set includes thirty (30) tools. Due to the fact that there is more than one sized socket on one tool, it is the equivalent of 39 different kinds of wrenches.

There are thirteen sizes of offsets; ten sizes of speed wrenches; six sizes of L wrenches; five special designed wrenches; three demountable rim wrenches; two T handles.

There are no two of the same size of wrench from the same type of handle This set of wrenches has been selected to fit the popular makes of cars, including places where a particular type of wrench is needed.

Packed in wooden case 20½x7x7 in. and weigh 41 lbs.

FORD



No. 45—Blackhawk or

No. 57—Walden. Ford Set, consisting of five wrenches shown in the above cut. Weight, 5¼ lbs.....Per set, $4.55

One set in a box.

MAXWELL

Consists of the following wrenches, which fit practically all nuts and bolts on a Maxwell car:

No 495—Hexagon openings, 1¼ and 1⅛ in.; 10 in. long, ¼ in. thick. Fits rear hub nut, steering gear case support, steering gear worm nut ..... Each, $0.82

No. 494—Hexagon opening, ⅛ in. Length, 5⅛ in Fits carburetor intake manifolds. ..... Each, .44

No. 1622—Hexagon openings, ¼ and ⅝ in.; square openings, ⅜ in. Fits body and fender nuts and bolts, fly wheel housing, steering gear case cover and shaft coupling and several other places . ..... Each, .88

No. 493—Hexagon openings, ⅝ and ¾ in. Length, 8¼ in. Fits cylinder head, motor support, spring clips, rod clevis, universal joint and other places Each, .72

No. 492—Hexagon openings, ⅞ and 1 in. Length, 10 in. Fits cover for timing gear, front hub and flanges, steering arm and other places.....Each, .99

No. 491—Hexagon openings, ⅞ and ⅝ in Length, 10½ in. Fits connecting rod bearings, clutch housing, main bearings, spindle pivot nuts and other places. ..... Each, .71

No. 25—Blackhawk or

No. 49—Walden. Weight, 5¼ lbs. .....Per set, $4.55

One set in a cardboard box.

SOCKET WRENCH SETS

WIRE HANDLE

Consists of the following wrenches. (We give below a partial list of places these wrenches will fit):

No. 391—Hexagon openings ⅝ and ¾ in. Length, 8 in. Fits hub flange, motor supports, gaanrator supports, steering lever, etc.....Each, $0.72

No. 392—Hexagon openings, ⅞ and 1⅛ in. Length, 9¼ in. Fits spring clips.....Each, 99

No 393—Four hexagon openings, 1⅛, 1 7/16, 1⅝ and ¾ in. Length, 10½ in. Fits hub nuts, rear shackles, steering arm, transmission support.....Each, 1.65

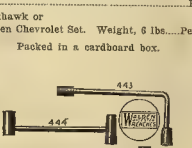
No. 394—Hexagon openings, ⅝ and ⅞ in. Length, 8 in. Fits cylinder head, demountable rims, differential housing, main bearings.....Each, .77

No 395—Hexagon openings, ⅛ and ⅞ in. Length, 4 in. Fits connecting rods, carburetor intake, exhaust manifold, muffler, raditor and steering gear supports .....Each, .66

No. 30—Blackhawk or

No. 39—Walden Chevrolet Set. Weight, 6 lbs.....Per set, $4.75

Packed in a cardboard box.



These four wrenches are especially adapted for Buick models. Below is a list of the individual wrenches, with a few places where each of these wrenches will fit:

No. 444—Three hexagon openings, ⅛, ⅞ and ⅝ in. Length, 9 in. Will fit battery connections, connecting rods, differential housing, steering gear case cover, water cylinder outlets and inlet, support for generator, muffler and water pump, transmission cover, universal joints .....Each, $0.83

No. 443—Hexagon openings, ⅝ and ½ in. Length, 9½x 4⅝ in. Will fit crank case, fan adjustment, radiator support .....Each, .72

No. 2432—Hexagon openings, 1 and ⅝ in. Length, 11½ in. Will fit cylinder to base, fender to frame, main bearings, spring clips, torque rods, rear spring and spindle pivot .....Each, 1.05

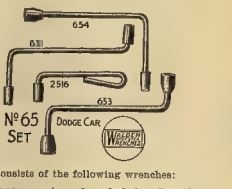
No. 5660—Three hexagon openings, 1⅛, ⅞ and 1⅛ in. Length, 10½ in. Will fit hub flange, rear motor support, rear muffler support, spring shackle..... Each, 1.20

No. 440—Blackhawk or

No. 44—Walden Buick Set. Weight, 5 lbs.....Per set, $3.80

Packed in a cardboard case.

WALDEN OR BLACKHAWK DODGE



This set consists of the following wrenches:

No. 651—Hexagon openings 7/16 and 7/16 in. Length over all, 10 in. Will fit rear differential housing, exhaust manifold, gear case cover, motor support, muffler support, master gear and other places..... .....Each, $0.71

No. 654—Hexagon opening, ⅛ and ⅛ in. Length, 10x6 in. Will fit cover for timing gears, cylinder head, fly wheel housing, transmission cover and other places. ....Each, .72

No. 444—Hexagon openings, ⅛, ⅞ and ⅝ in. Length, 9 in. Will fit cover for timing gears, fly wheel housing, master gear, muffler support, steering case cover and support, transmission cover, universal joint and other places .....Each, .83

No. 653—Hexagon openings, ⅞ and ⅝ in. Length, 11 in. Will fit connecting rods, hub flange, gear worm wheel nut, main bearings and motor support..... Each, .77

No. 650—Blackhawk or

No. 65—Walden Dodge Set. Weight, 4 lbs. ..... .Per set, $3.00

One set in a cardboard box.

WALDEN OVERLAND

This set is adapted to all models of Overland cars, with the exception of the new Model No. 4. The wrenches contained in this set, with a partial list of places which they will fit, are as follows:

No. 751—Hexagon openings, ⅝ and 7/16 Length, 11¾ in. Will fit cylinder head, differential housing, spring clips, rod clevis and spring perch..... .....Each, $0.72

No. 752—Hexagon opening, 7/16 and 1/2 in. Length, 8x8 in. Will fit body bolts, connecting rods, exhaust manifold, main bearings and generator support.....Each, .72

No. 755—Hexagon openings, ⅝ and ¾ in. Length, 10x7 in. Will fit motor support, transmission support, radiator support, fan adjustment and other places.....Each, .72

No. 756—Hexagon openings, 7/16 and ⅛ in. Length, 4x4 in. Will fit cover for timing gears, muffler, muffler support, oil pan, oil pump and transmission cover. ....Each, .66

No. 75—Walden Overland Set. Weight, 4 lbs. ....Per set, $2.80

One set in a cardboard box.

SOCKET WRENCH SETS

FORDSON TRACTOR TOOLS

No. 85 Set - Fordson Tractor

No. 855-B—Length over all, 9⅝ in. This is a hook for prying apart the rear axle housing where the cap screws have been removed.....Each, $1.65

No. 851 This is a special flat (¼ in. thick) wrench, having a box type socket, size 1⅞ in. hexagon. Length over all, 8½ in. Will fit clutch shaft nut.....Each, .72

No. 854—Wrench, having a ⅝ in. hexagon socket. Shank, 15 in. Handle, 8 in. Will fit foot bracket cap screw, gear shifter plate cap screw and radiator top tank cap screw.....Each, .88

No. 856—Socket, sizes ¾ in. hexagon and ⅝ in. hexagon. Will fit connecting rod cap bolt nut, clutch lever bracket bolt, crank case bolt and nut, cylinder front cover bolt, cylinder front cover cap screw, cylinder head cap screw, differential housing bolt and nut, foot bracket cap screw, radiator connection bolt and nut, radiator cover bolt and nut, transmission housing bolt and nut, cap screws and transmission housing plate cap screw.....Each, .99

No. 85—Walden Fordson Tractor Set. Weight, 13½ lbs. Per set, $ 80

Set consists of one of each of the following wrenches:

No. 850—This is a flat (⅛ in. thick) box type Socket Wrench. Length over all, 5 in. Socket size, ⅜ in. hexagon. Will fit fan adjustment nut and screw and steering wheel nut.....Each, .33

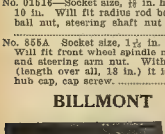
No. 852—Socket sizes ⅞ in. hexagon and ½ in. hexagon. Length over all, 6¼x6¼ in. Will fit clutch housing bolts and nuts, exhaust tube bracket bolts and nuts and radiator tank bolts and nuts.....Each, .82

No. 853—Socket sizes, ⅞ in. square and ⅞ in. hexagon. Length over all, 9x9¼ in. Will fit crank shaft bearing bolt nut, main bearing nut, dash cap screw, rear axle housing cap screw and transmission draw bar cap screw.....Each, .99

No. 01516—Socket size, ⅜ in. hexagon. Length over all, 10 in. Will fit radius rod bolt and nut, steering arm ball nut, steering shaft nut and steering wheel nut.....Each, .77

No. 855A Socket size, 1 ⅛ in. Length over all, 9⅝ in. Will fit front wheel spindle nut, seat spring cap screw and steering arm nut. With the extension No. 855B (length over all, 18 in.) it is used on the rear wheel hub cap, cap screw.....Each, 1.65

BILLMONT WRENCHES



No. 300—Billmont Socket Set in hardwood case, sockets only 24 sizes.....Per set, $12.75

No. 100—Billmont Master Wrench and Socket Set (includes wrench and 24 sizes of sockets in hardwood case, but no sockets in handle).....Per set, $20 50

INDIVIDUAL SOCKETS

Finely Machined, Broached and Hardened

Hexagon.		Hexagon.		Square.	
No. 12 ⅜		No. 21—⅞		No 014 ⅛	Each
No. 13—7/16	Each	No. 22—1	Each	No 016 -½	$0.40
No. 14—⅝	$0.35	No. 24—⅝	$0.50	No. 018—⅛	
No. 15—⅝		No. 25—⅞		No .019 ⅝	
No. 16—⅝		No. 26—1⅛		No 020 ⅝	.45
No. 17—⅝		No. 28—⅞	.55	No 022—1⅛	
No. 18—⅞	.40	No. 30 1⅛		No. 024—¾	
No. 19—⅞		No. 31 1⅛			
No. 20—⅞					

MASTER WRENCH

No. 1-MW—Set consists of Master Wrench, 5 hexagon sockets, ⅞, ½, ⅞, ⅝ and ⅜ in., and 1 adapter. Weight complete, 3 lbs... Set, $10.50

A Universal Joint Socket Wrench with all driving parts incased in a heavily knurled, stationary, hand-grip sleeve.

The Billmont should be in the tool case of every automobile. It takes the place of many special wrenches. It is the universal tool for all Ford repairs and adjustments.

One hand holds the wrench firmly in place while the other does the turning. That strong, long T-bar handle gives plenty of leverage and makes the hardest thread-bound, rusted or frozen nut turn loose and come off.

The fourth connecting rod nut, the terror to repair men and Ford owners, is a simple job for the Billmont. With this master wrench you can get right at it—no need to lift motor from frame—fifteen minutes to three hours saved on every job. For this work alone the Billmont is worth ten times its price.

Center main bearing nuts and bolts easy to reach—radiator side bolts, right at the radiator, but not too close for the Billmont. Bottom inspection plate—there are 14 stud bolts here, but the Billmont gets them all in half the time. Fan bolt, hard to get at, but simple with the Billmont. Motor bolts, body bolts, rear hub flange bolts, steering post lock nut, front fender brackets, commutator brush lock nuts, even grinding the last valve is easy work for the Billmont.

No 70 No. 65 No. 60

No. 65—Offset Screw Driver.....Each, $0.40

No 70—Standard Socket Adapter and Oil Plug Remover.....Each, .40

No. 60—Ford Valve Grinder Attachment..... " .35

BILLMONT SIZE CHART

Hexagon Sockets

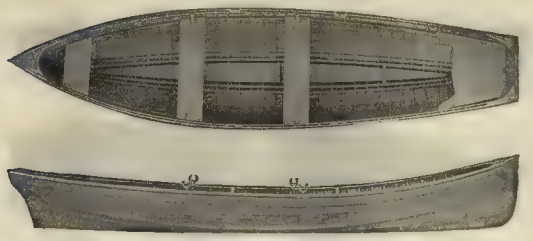
	Socket Size, In.	U. S. S. Nuts, Size Bolt, In.	Hexagon Head Cap Screws, U. S. Std., In.	S. A. E. Std. Nuts and Cap Screws, In.	A.L.A.M. Inch.	Mfrs. Std. Head, In
No. 12	⅜	..	..	..	..	..
No. 13	7/16	.	.	.	.	.
No. 14	½	.	¼	¼	.	.
No. 15	9/16	.	.	.	.	.
No. 16	⅝	¼	5/16	5/16	.	.
No. 17	11/16	.	.	.	.	.
No. 18	¾	⅜	⅜	⅜	⅜	⅜
No. 19	13/16	5/16	.	.	.	.
No. 20	⅞	⅜	7/16	⅜	.	.
No. 21	15/16	.	..	..	..	..
No. 22	1	⅜	.	7/16	.	.
No. 24	⅞	½	½	7/16	½	½
No. 25	1 1/16	7/16	.	.	.	.
No. 26	1 1/8	.	7/16	.	.	.
No. 28	1 3/16	½	⅜	7/16	.	.
No. 30	1 ¼	.	.	⅝	⅝	⅝
No. 31	1 5/16	7/16	.	.	.	.

Square Sockets

	Socket Size, In.	Square Head Set Screws, In.	Square Head U. S. S. Cap Screws, In.	Sq. Head U. S. Nut Bolt Size, In.
No 014	7/16	7/16	7/16	.
No 016	½	7/16	⅜	¼
No 018	9/16	½	½	.
No 019	5/8	.	.	5/16
No 020	⅝	⅝	½	.
No 022	11/16	.	⅝	⅜
No 024	¾	¾	⅝	.

ROW BOATS

Not Carried in Stock; Can Only be Furnished by Direct Shipment from Factory



STANDARD, SQUARE STERN

Keel, Stem, Stern Post and Ribs made from Clear Selected White Oak. Ribs are $\frac{3}{8}$x$\frac{7}{8}$ in. Spaced 4 in. Center. Planking is made from Selected White Cedar of the Lap Strake Construction $\frac{3}{8}$ in. Thick. Gunwales of Clear Selected White Oak. Copper Riveted through ribs and inner and outer gunwale. Decks and Stern Hooks of Clear White Oak. Seats are made from Clear Selected Northern Fir. All Fastenings are Copper and Brass. Entire Boat is Finished Natural with Three Coats of Best Marine Spar Varnish. Two Pairs of Polished Brass Oar Locks are Furnished with Each Boat. Oars are not included.

No.	Length	Beam	Depth at Bow	Depth at Stern	Depth Amidship	Shipping Weight	Each
A2214	14 ft.	44 in.	23 in.	21 in.	14½ in.	130 Lbs.	$105.00
A2216	16 ft.	45 in.	24 in.	23 in.	15½ in.	155 Lbs.	110 00

Specifications for this Boat are the same as those for Grades A2214 and A2216 with the following exceptions: All Fastenings are Galvanized Iron; Seats, Gunwales, Top Strake and Decks are Finished Natural with Spar Varnish; Inside of Boat is Painted Two Coats of Battleship Gray and Outside Painted Three Coats of Moss Green; One Set of Galvanized Oar Locks and Two Sets of Galvanized Oar Lock Holders Furnished with Each Boat, Oars are not included.

No.	Length	Beam	Depth at Bow	Depth at Stern	Depth Amidship	Shipping Weight	Each
B2214	14 ft.	44 in.	23 in.	21 in.	14½ in.	130 Lbs.	$85.00
B2216	16 ft.	45 in.	24 in.	23 in.	15½ in.	155 Lbs.	90.00

FAMILY, SQUARE STERN

Keel, Stem, Stern Post and Ribs made from Clear Selected White Oak. Ribs are $\frac{3}{8}$x$\frac{7}{8}$ in. Spaced 4 in. Center. Planking is made from Selected White Cedar of the Lap Strake Construction $\frac{3}{8}$ in. Thick. Gunwales are of Clear Selected White Oak. Copper Riveted through ribs and inner and outer gunwales. Decks and Stern Hooks are of Clear White Oak. Seats are made from Clear Selected Northern Fir. All Fastenings are Copper and Brass. Entire Boat is Finished Natural with Three Coats of Best Marine Spar Varnish. Two Pairs of Polished Brass Oar Locks and Natural Finished Folding Lazy Back Furnished with Each Boat. Oars are not included.

No.	Length	Beam	Depth at Bow	Depth at Stern	Depth Amidship	Shipping Weight	Each
A96	16 ft.	45 in.	24 in.	23 in.	15½ in.	220 Lbs.	$120.00

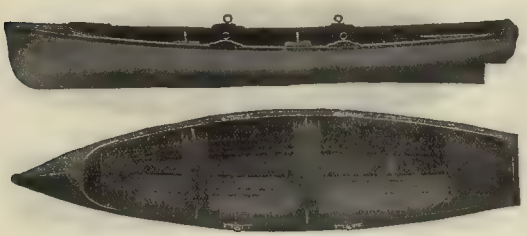
Specifications for this Boat are the same as for No. A96 with the following exceptions: All Fastenings are Galvanized Iron; Seats, Gunwales and Top Strake and Decks are Finished Natural with Spar Varnish; Inside of Boat is Painted Two Coats of Battleship Gray and Outside Painted Three Coats Moss Green. One Set of Galvanized Oar Locks and Two Sets of Galvanized Oar Lock Holders together with a Folding Lazy Back are Furnished with Each Boat. Oars are not included.

No.	Length	Beam	Depth at Bow	Depth at Stern	Depth Amidship	Shipping Weight	Each
B96	16 ft.	45 in.	24 in.	23 in.	15½ in.	220 Lbs.	$105.00

2702 *Kelley-How-Thomson Co. of Duluth*

ROW BOATS

Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory



SPECIAL SMOOTH PLANKED FISHING BOAT

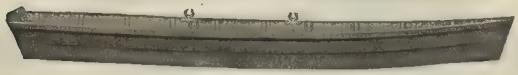
Specially Built for Outboard Motors

Built Very Substantial. The Wide Transom and Almost Flat Stern Section, together with the Straight Keel Line, provides for the Added Weight of the Motor and Operator, and Keeps the Entire Length of the Boat in the water. The Large Comfortable Stern Seat Allows the Operator Sufficient Room to Handle the Steering Device on the Engine. The perfectly Smooth Enameled Planking glides through the water with the least resistance. The dimensions of the frame work and general construction of the entire boat reduces the vibration of the motor to a minimum. These Boats are Constructed Heavier than the ordinary standard row boat, and the increased weight adds to the strength and safety, making it well adapted to family use. The added weight of the motor does not decrease the speed, as the under body is so designed that it glides on top of the water instead of displacing it.

Specifications

The Frame Work is made from Clear Selected White Oak. Ribs are 1x1 in. Spaced 6 in. Center. Transom is 1⅜ in. Thick White Oak, Reinforced with Iron Bolts. Decking and Coaming are of Selected Oak. Gunwales are 1½x⅝ in. Copper Riveted at Every Rib through inner and outer gunwale. Interior of Boat is provided with Three Cross Seats 12 in. Wide. Seats are made from Clear Selected Cedar or Spruce Finished Natural with Three Coats of Spar Varnish. The Inside of Boat is Painted Battleship Gray; the Outside is thoroughly Smoothed, Joints Caulked with Sesne Twine and all screws and Nail Holes are Filled with White Lead Putty and Painted Three Coats of Moss Green. Decks, Gunwales and Seats Finished Natural with Spar Varnish. One Pair of Galvanized Oar Locks Furnished with Each Boat. Oars are not included.

Nos.	Length	Beam	Depth at Bow	Depth at Stern	Depth Amidship	Shipping Weight	Each
97	16 ft.	48 in.	27 in.	23 in.	18 in.	240 Lbs.	$120 00
98	18 ft.	50 in.	27 in.	23 in.	18 in.	335 Lbs.	138.00



FLAT BOTTOM BOAT

A Good All Around Boat for Hard Service

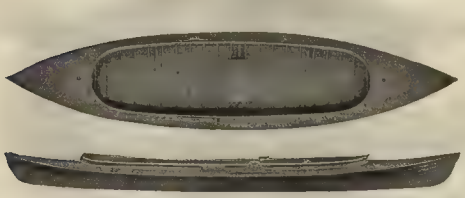
This Boat is Built with Clinker Sides and a Flat Bottom and Handles Easily with Oars and may be used with an Outboard Motor. It can also be provided with a Leg-o'-Mutton Sail.

Equipped with One Pair of Oar Locks and Holders. It is especially designed for all around use and heavy service; Built from Cypress with Clinker Sides, Two Strakes to Each Side and Painted Two Coats of Dead Grass Color both Inside and Outside. Oars are not Included.

No.	Length	Beam	Depth	Planking	Bottom	Net Weight	Each
61	16 ft.	46 in.	16½ in.	½ in.	¾ in.	225 Lbs.	$75.00

DUCK BOATS

Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory



Bottom and Planking made from Selected Cedar or White Pine. Thickness of Bottom, ¾ in.; Planking, ¾ in.. Planking Consists of Four Strakes on Each Side. Ribs are ⅝x⅞ in. spaced 4 in. Center, Securely Fastened Through Bottom and Planking with Clout Nails.

In connection with the Bent Ribs, Each Boat is Provided with Three Sawed Oak Frames ⅞x1 in. Decks and Covering Boards are of ¾ in. Selected Cedar. Coaming is of selected Oak Extending 9 in. Above Decks. Each Boat is Provided with a Galvanized Anchor Tube through each deck.

Fittings Consist of One Pair of 6 ft. Oars, One Push Paddle, Oar Locks and One Seat.

Nos.	Length	Beam	Length of Cockpit	Shipping Weight	Each
45	12 ft.	34 in.	6½ ft.	70 Lbs.	$50.60
46	14 ft.	34 in.	8½ ft.	90 Lbs.	55.00

CANOES

LIVERY

Designed and built to take care of the demand for an Absolutely Dependable Canoe for Cruising, Livery and other Hard Usage. It is of the Batten Seam Construction, made Leak Proof by Laying a Water Proof Glue Covered Tape the Entire Length of Each Batten and Planking Seam. The Frame Work is of Selected Oak and Planking Clear Selected Cedar—the kind of wood that will not water log or "bulge" away from the ribs as the basswood planked canoe does. It has liberal beam and freeboard and is designed to stand rough water and the hardest kind of service.

Specifications for No. A1300

Keel of Selected White Oak ⅞x1⅝ in.; Stem of Selected White Oak, Double, Steam Bent to Shape. Inner Keel ⅝x1¾ in. Dadoed for over ribs. Ribs are White Oak ⅝x⅜ in. Spaced 4 in. Center. Battens Selected White Pine ½x1 in. Dadoed Over Ribs. Planking of Clear Selected Cedar ⅛ in. Thick. Inner and Outer Gunwales of Clear Northern Fir. Decks of Clear White Spruce 30 in. Long, with Oak Covering Boards. Coaming Selected White Oak. Thwarts and Seats Clear Red Birch. Seats are Hand Caned, All Fastenings of Copper and Brass. Decks, Seats, Gunwales and Floor Risings Finished Natural with Three Coats Spar Varnish. Inside Painted Three Coats Straw Colored Lead Paint. The Outside is Painted Three Coats of Green and One of Enamel.

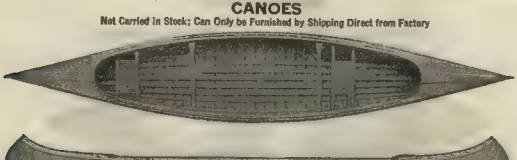
Specifications for No. B1300

Specifications the same as those for No. A1300, excepting that the Decks are 15 in. Long with No Coaming. Seats are not included with this Canoe, but will be furnished at an additional charge of $2.25 Each.

Nos.	Length Overall	Beam	Depth of Ends	Depth Amidship	Shipping Weight	Each
A1300	16 ft.	34 in.	24 in.	13 in.	90 Lbs.	$95.80
B1300	16 ft.	34 in.	24 in.	13 in.	90 Lbs.	87.20

CANOES

Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory



Indian Girl Model
CANVAS COVERED

RIBS.—Ribs are made from Clear Selected White Cedar ⅝ in. Thick and 2 in. Wide, Machined with Neatly Rounded Edges and thoroughly Smoothed Before Finishing Coats are Applied. Ribs are Very Closely Spaced Insuring Rigidity and Strength.

PLANKING. All Planking is made from Clear Selected Cedar of Uniform Color. The Planking is Put On in Long Lengths Laid with Square Joints as it Securely Fastened to Each Rib. Thickness of Planking is ⅜ in.

FASTENINGS.—All Fastenings are Copper and Brass. Planking is Fastened to Ribs with Copper Tacks, One at Center and Two at Each Edge of Plank for Each Rib. Thoroughly Clinched on Inside of Rib. Keel is Fastened with Brass Screws and Gunwales with Copper Rivets and Nails. Stem Bands are Polished Brass Fastened with Brass Nails.

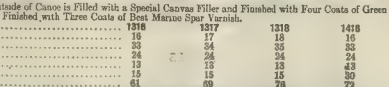
CANVAS.—Canvas is of Special Close Weave put on in One Piece Over the Hull, thoroughly Stretched and Fastened to the Top and Stems with Copper Tacks.

SEATS.—Standard Canoe Seats are made from Selected Red Birch, Hand Caned and made to Stand Hard Usage; Fastened about 4 in. Below the Gunwale.

PAINTING.—The Outside of Canoe is Filled with a Special Canvas Filler and Finished with Four Coats of Green Canoe Enamel. Gunwales, Decks, Seats and Inside are Finished with Three Coats of Best Marine Spar Varnish.

No.	1316	1317	1318	1416	1417	1418
Length, Ft.	16	17	18	16	17	18
Beam, In.	33	34	35	33	34	35
Depth at Ends, In.	24	24	24	24	24	24
Depth at Center, In.	13	13	13	13	13	13
Length of Decks, In.	15	15	15	30	30	30
Weight, Lbs.	61	69	78	72	78	85
Each	$115.50	127.50	135.00	120.00	132.50	140.00

BOAT OARS



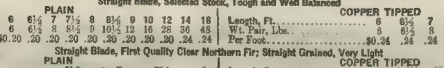
FIRST QUALITY ASH

Straight Blade, Selected Stock, Tough and Well Balanced

	PLAIN								COPPER TIPPED					
Length, Ft.	6	6½	7	7½	8	8½	9	10	12	14	16	Length, Ft.	6	6½	7	7½	8	8½	9
Wt. Pair, Lbs.	6	6½	8	8½	9	10½	12	16	28	36	48	Wt. Pair, Lbs.	6	6½	8	8½	9	10½	12
Per Foot	$0.20	.20	.20	.20	.20	.20	.20	.20	.20	.24	.24	Per Foot	$0.24	.24	.24	.24	.24	.24	.24

Straight Blade, First Quality Clear Northern Fir; Straight Grained, Very Light

	PLAIN				COPPER TIPPED			
Length, Ft.	6½	7	7½	8	Length, Ft.	6½	7	7½	8
Weight, Pair, Lbs.	5	6	6½	7	Weight, Pair, Lbs.	5	6	6½	7
Per Foot	$0.30	.30	.30	.30	Per Foot	$0.36	.36	.36	.36



SPOON BLADE

Selected White Spruce; Copper Tipped, Leathered and Varnished with Spar Composition, Not Buttoned

Length, Ft.	7	7½	8	8½
Weight Pair, Lbs.	7	7½	8	9
Per Foot	$0.50	.50	.50	.50

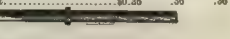
OAR LEATHERS

Specially Prepared Oak Leather; Easily and Quickly Attached

	Per Dozen Sets
Size, 6x6 In.	$ 9 00
Size, 6x7 In.	10 00

Each Set Consists of Two Flat Leathers and Two Straps, with Necessary Nails and Tacks

PADDLES



CANOE

Selected First Quality Northern Fir, Varnished

Length, Ft.	4½	5	5½
Weight, Each, Lbs.	1¼	2	2¾
Each	$3.00	3.00	3.00

Kelley-How-Thomson Co. of Duluth

WOOD SPLIT PULLEYS

Construction of Pulleys, 9 to 36 Inches Inclusive

"DODGE INDEPENDENCE"

Pulleys are put together without nails, so that in event of there being any shrinkage or swelling there will be no appreciable effect on the Pulley, whereas if nails were used, the slightest swelling would draw them, and in shrinking the segments would split, from the fact that when the nails are once loosened and drawn they will never go back to their original position

Every Pulley, large or small; is carefully balanced by a special process, which assures an accurate balance and true running on the shaft.

Construction of Pulleys having a diameter of 38 Inches or more

STANDARD PRICE LIST, Dec. 1st, 1908

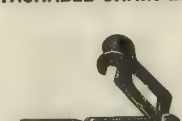
Diam., Inches	Width of Face 3	4	5	6	8	10	12	14	16	18	20	22	24	Diam., Inches
4	$2.80	$2.90	$3.10	$3.30	$ 3.70	$ 4.10	$ 4.50	.....	.....	.....	.....	.....	.....	4
5	2.85	2.95	3.20	3.40	3.85	4.25	4.75	.....	.....	.....	.....	.....	.....	5
6	2.90	3.00	3.25	3.50	4.00	4.30	5.00	.....	.....	.....	.....	.....	.....	6
7	2.95	3.05	3.35	3.60	4.15	4.70	5.35	$ 5.80	.....	.....	.....	.....	.....	7
8	3.00	3.10	3.40	3.70	4.30	4.90	5.50	6.10	.....	.....	.....	.....	.....	8
9	3.10	3.25	3.50	3.80	4.55	5.20	5.85	6.50	.....	.....	.....	.....	.....	9
10	3.25	3.40	3.75	4.10	4.80	5.50	6.25	6.90	$7.60	.....	.....	.....	.....	10
11	3.50	3.70	4.10	4.50	5.30	6.10	6.90	7.70	8.50	.....	.....	.....	.....	11
12	3.75	4.00	4.45	4.90	5.80	6.70	7.60	8.50	9.40	$10.30	.....	.....	.....	12
13	.....	4.30	4.80	5.30	6.30	7.30	8.30	9.30	10.30	11.30	.....	.....	.....	13
14	.....	4.60	5.15	5.70	6.80	7.90	9.00	10.10	11.20	12.30	$13.40	.....	.....	14
15	.....	4.90	5.50	6.10	7.30	8.50	9.70	10.90	12.10	13.30	14.50	.....	.....	15
16	.....	5.20	5.85	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	$16.90	.....	16
17	.....	5.50	6.20	6.90	8.30	9.70	11.10	12.50	13.90	15.30	16.70	18.10	.....	17
18	.....	5.80	6.55	7.30	8.80	10.30	11.80	13.30	14.80	16.30	17.80	19.30	$20.80	18
19	.....	6.10	6.90	7.70	9.30	10.90	12.50	14.10	15.70	17.30	18.90	20.50	22.10	19
20	.....	6.40	7.25	8.10	9.80	11.50	13.20	14.90	16.60	18.30	20.00	21.70	23.40	20
22	.....	7.00	7.95	8.90	10.80	12.70	14.60	16.50	18.40	20.30	22.20	24.10	26.00	22
24	.....	7.60	8.80	9.90	12.10	14.30	16.50	18.70	20.90	23.10	25.30	27.50	29.70	24
26	.....	8.40	9.65	10.90	13.40	15.90	18.40	20.90	23.40	25.90	28.40	30.90	33.40	26
28	.....	9.10	10.50	11.90	14.70	17.50	20.30	23.10	25.90	28.70	31.50	34.30	37.10	28
30	.....	9.80	11.35	12.90	16.00	19.10	22.20	25.30	28.40	31.50	34.60	37.70	40.80	30
32	.....	10.50	12.20	13.90	17.30	20.70	24.10	27.50	30.90	34.30	37.70	41.10	44.50	32
34	.....	11.20	13.15	15.00	18.70	23.40	26.10	29.80	33.50	37.20	40.90	44.60	48.30	34
36	.....	12.10	14.10	16.10	20.10	24.10	28.10	33.10	36.10	40.10	44.10	48.10	52.10	36
38	.....	.....	.....	17.20	21.50	25.80	30.10	34.40	38.70	43.00	47.30	51.60	55.90	38
40	.....	.....	.....	18.30	22.90	27.50	32.10	36.70	41.30	45.90	50.50	55.10	59.70	40
42	.....	.....	.....	19.60	24.40	29.30	34.20	39.00	44.00	48.80	53.80	58.60	63.40	42
44	.....	.....	.....	20.90	26.00	31.20	36.40	41.50	46.80	52.00	57.20	62.30	67.50	44
46	.....	.....	.....	22.30	27.80	33.30	38.90	44.40	50.00	55.50	61.10	66.60	72.20	46
48	.....	.....	.....	23.80	29.60	35.50	41.40	47.30	53.30	59.20	65.10	71.00	76.90	48
50	.....	.....	.....	25.40	31.60	37.90	44.20	50.50	56.80	63.10	69.40	75.70	82.00	50
52	.....	.....	.....	27.10	33.80	40.50	47.20	53.90	60.70	67.40	74.10	80.80	87.50	52
54	.....	.....	.....	28.90	36.00	43.20	50.40	57.50	64.70	71.90	79.00	86.20	93.40	54
56	.....	.....	.....	30.80	38.40	46.00	53.60	61.20	68.90	76.50	84.10	91.80	99.40	56
58	.....	.....	.....	32.80	41.00	49.20	57.40	65.60	73.80	82.00	90.20	98.40	106.60	58
60	.....	.....	.....	34.90	43.50	52.10	60.70	69.30	77.90	86.50	95.10	103.70	112.30	60
62	.....	.....	.....	37.10	46.10	55.10	64.10	73.10	82.10	91.10	100.10	109.10	118.10	62
64	.....	.....	.....	39.40	48.80	58.20	67.60	77.00	86.40	95.80	105.20	114.60	124.00	64
66	.....	.....	.....	41.70	51.80	61.70	71.60	81.50	91.40	101.30	111.20	121.10	131.00	66
68	.....	.....	.....	44.10	54.90	65.30	75.70	86.10	96.50	106.90	117.30	127.70	138.10	68
70	.....	.....	.....	47.50	58.10	69.00	79.90	90.80	101.70	112.60	123.50	134.40	145.30	70
72	.....	.....	.....	50.00	61.40	73.00	84.30	95.60	107.00	118.40	129.80	141.20	152.60	72
84	.....	.....	.....	.....	71.90	84.80	97.70	110.60	123.50	136.40	149.30	162.20	175.10	78
	.....	.....	.....	.....	83.30	97.70	112.10	126.50	140.90	155.30	169.70	184.10	198.50	84
90	.....	.....	.....	.....	95.60	111.50	127.40	143.30	159.20	175.10	191.00	206.90	222.80	90
96	.....	.....	.....	.....	108.00	126.50	144.00	161.50	179.00	196.50	214.00	231.50	249.00	96
102	.....	.....	.....	.....	123.70	143.00	162.30	181.60	200.90	220.20	239.50	258.80	278.10	102
108	.....	.....	.....	.....	139.30	160.40	181.50	202.60	223.70	244.80	265.90	287.00	308.10	108
114	.....	.....	.....	.....	155.80	178.70	201.60	224.50	247.40	270.30	293.20	316.10	339.00	114
120	.....	.....	.....	.....	173.20	197.90	223.60	247.30	272.00	296.70	321.40	346.10	370.80	120

NOTE—In Ordering Give Exact Size of Shaft; Width of Face, and Kind of Face (Crown or Flat)

DETACHABLE CHAIN BELT

Do not set an Idler too hard against the Chain Belt, nor run it too tight, as the Positive action renders it unnecessary to strain it as tightly as a friction belt. At first it should be held firmly to the wheels by the Idler or Tightening Wheel, but it is always smooth.

Chains should generally be kept oiled, but when used in exposure to sand, grit or any cutting dirt, then good Black Lead is better.



Open Hook Chain Belt should be used with the backs of the hooks to the Sprocket Wheel as it is generally calculated to fit the pitch of the Sprocket Wheels upon that side; but it may be run with the open side of the hooks to the wheel, where one or more wheels in a series require it, as in the case of an Idler or Tightening Wheel, but it is always best to plan an Idler to run on the slack portion of the Chain Belt.

Size No.	Plain Links Per Foot	Couplers Per Pair	Approximate Links in 10 Feet	Maximum Power in Pounds
024	$0.18	....	133	50
25	.15	$0 15	133	75
026	.31	....	120	75
32	.16	.19	104	150
33	15	15	86	300
34	.17	17	86	225
042	.26	....	88	300
42	.19	.19	88	300
45	.16	16	74	330
51	.23	.23	104	375
52	.23	.23	80	600
55	.20	.20	74	450
57	24	24	52	600

Size No.	Plain Links Per Foot	Couplers Per Pair	Approximate Links in 10 Feet	Maximum Power in Pounds
62	.27	.27	73	650
67	.29	.29	52	700
75	.27	.27	46	750
77½	.32	.32	52	800
78	.44	.44	46	1000
83	.51	.51	30	1200
85	.57	.57	30	1300
88	.50	.50	46	1200
103	.73	.73	39	1800
108	.75	.75	25½	2000
110	.78	.78	25	2000
114	.98	.98	37	2000
124	1 10	1 10	30	2200

PARTIAL LIST OF SPECIAL ATTACHMENT LINKS AND COUPLERS

Price for Chain made up of all special links

No. 25	
A-1	$0 31
C-1	41
H-2	32
K-1	37

No. 32	
A-1	$0 20
C-1	20
E-1	37
K-1	35

No. 33	
A-1	$0 28
E-1	25
K-1	33
S-1	35

No. 34	
A-1	$0 31
C-1	36
E-1	28
K-1	53

No. 042	
A-1	$0 47

No. 42	
A-1	$0.37
C-1	35
K-1	38
S-1	38

No. 45	
A-1	$0 31
A-2	38
C-1	32
E-1	26
F-2	36
G-1	28
K-1	33
K-40	53
S-1	35

No. 52	
A-1	$0 41
A-3	46
F-2	52
K-1	42

No. 55	
A-1	$0 34
C-1	37
E-1	37
F-2	41
K-1	39
K-45½	38
S-1	37
S-5	40
Scraper No. 19, each	.15
Scraper No. 20, each	.10

No. 57	
A-1	$0.39
F-2	56
K-1	47

No. 62	
A-1	$0 46
C-1	45
D-5	60
K-1	50
K-5	49
K-40	78
S-1	47

No. 67	
A-1	$0 51
D-5	53
E-1	47
F-2	68
G-1	59
K-1	52

No. 75	
F-2	$0.63
H-1	46
K-1	51

No. 77	
A-1	$0.55
A-113	56
D-5	64
E-1	53
F-2	72
G-1	64
H-1	73
K-1	74
K-3	57

No. 78	
A-11	$0.65
F-2	.80
G-8	80
G-19	.78
H-2	83
K-1	66
M-3	94
R-1	.50

No. 83	
D-5	$0 93
K-1	.74
M-3	.97

No. 85	
F-2	$1 00
K-2	86

No. 88	
A-11 (2 Holes)	$0 72
D-5	.93
E-1	87
F-2	90
F-8	.94
G-6	.85
G-19	.94
H-1	.92
H-2	98
K-1	.79
M-3	1 27
R-1	58

No. 103	
A-11	$1.12
F-2	1 25
F-8	1 40
G-8	1 38
G-19	1 28
H-1	1 29
H-2	1 25
K-1	1 13
K-2	1 18
M-3	1 38

No. 108	
F-2	$1.44
K-2	1.24

No. 110	
F-2	$1 59
K-2	1.41

No. 114	
F-8	$2 00
K-1	1 40
K-2	1.45

No. 124	
F-8	$2 14
G-6	1 83
K-1	1 92

Kelley-How-Thomson Co. of Duluth

STEEL SPLIT PULLEYS

Great Strength with Light Weight; No Slipping on Shaft, No Breaking, No Time Loss for Shut-Down

KEYSTONE

Oval Crown Substantial Rims, $\frac{5}{16}$ or $\frac{3}{8}$ in. Thick according to diameter; Will not break under sudden strains or high speeds. Arms are Placed Directly at the Rim Partings, one half of each arm on either side of the parting; these Arms Rigidly Support the Rim at these Vital Points and entirely eliminate the possibility of destructive vibration.

In sizes up to 24 in. in diameter the Arms are Securely Riveted to a Sheet Steel Casing, to which, in turn, are riveted to Malleable Iron Yoke through which the compression bolts pass. Above 24 in. the Hub is made Entirely of Malleable Iron. Steel Clips reinforce the important connection between Arms and Hub.

Wherever there is a Rivet the metals through which the Rivet Passes are interlocked male and female by countersinking; the flange thus formed on the metals takes all the lateral strain; Impossible to shear.

NATIONAL

Recommended for Work Requiring High Speeds, such as on Dynamos, Motors, etc.

KEYSTONE PULLEYS

Diam., In.	Width of Face in Inches								
	2 in.	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.	12 in.	
6	$3.15	$3.30	$ 3.45	$ 3.75	$ 4.05	$ 4.80	$ 5.20	$ ...	
7	3.25	3.75	3.90	3.90	4.20	4.80	5.40	...	
8	3.30	3.45	3.75	4.05	4.35	4.95	5.60	6.25	
9	3.35	3.60	3.90	4.20	4.50	5.10	5.75	6.35	
10	3.45	3.75	4.05	4.35	4.65	5.25	5.90	6.45	
11	3.65	3.90	4.20	4.50	4.85	5.40	6.00	6.90	
12	3.80	4.20	4.65	4.80	5.30	5.75	6.45	7.05	
13	4.05	4.25	4.80	5.20	5.62	6.43	7.20	8.40	
14	4.30	4.50	5.20	5.65	6.15	7.05	8.03	9.00	
15	....	4.65	5.45	5.80	6.55	7.65	8.80	9.75	
16	....	4.80	5.75	6.10	6.90	8.25	9.45	10.50	
17	....	5.25	6.00	6.50	7.25	8.78	10.05	11.25	
18	....	5.55	6.38	7.00	7.65	9.30	10.65	12.00	
19	....	5.80	6.75	7.50	8.25	10.13	11.25	12.90	
20	....	6.00	7.50	8.10	9.00	10.73	12.00	14.25	
21	....	6.25	8.00	8.90	9.60	11.25	13.05	15.00	
22	....	6.50	8.55	9.50	10.28	12.00	14.10	16.30	
23	....	7.00	8.70	9.90	10.58	12.80	14.78	18.00	
24	....	7.50	8.90	10.00	10.95	13.20	15.68	19.05	
25	....	....	9.20	10.25	11.45	13.80	16.40	20.20	
26	....	....	9.35	10.50	11.95	14.40	17.10	21.30	
28	....	....	10.80	11.70	12.90	15.45	18.15	22.95	
30	....	....	12.00	12.90	14.10	17.25	19.80	24.75	
32	....	....	13.20	14.10	15.45	19.35	22.50	26.85	
34	....	....	....	14.40	15.75	17.25	21.75	25.50	30.00
36	....	....	....	15.90	17.85	19.50	24.00	28.65	33.75
38	....	....	....	19.50	20.65	21.75	26.40	31.05	36.15
40	....	....	....	21.60	22.75	24.00	28.50	33.75	40.15
42	....	....	....	23.25	24.85	26.25	32.25	37.50	43.50
44	....	....	....	....	....	29.25	35.63	41.25	47.25
46	....	....	....	....	....	33.00	39.00	45.00	50.25
48	....	....	....	....	....	36.75	42.00	48.75	54.00

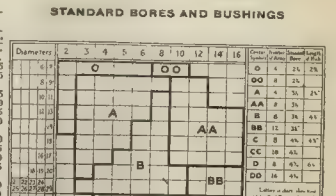
NATIONAL PULLEYS

Face, In.	Diameter 3 Inches				
	3	4	5	6	
Each	$2.40	2.52	2.68	3.00	
Face, In.	**Diameter 4 Inches**				
	3	4	5	6	
Each	2.52	2.64	2.75	3.10	
Face, In.	**Diameter 5 Inches**				
	3	4	5	6	
Each	$2.64	2.75	2.87	3.25	

BORES—3 in Pulleys are made with $1\frac{7}{16}$ in. bore. 4 and 5 in. Pulleys are made with $1\frac{11}{16}$ in. bore. Bushings to fit shaft, of smaller diameter, all ups $\frac{3}{4}$ in. long.

Wrench Furnished with Every Pulley

STANDARD BORES AND BUSHINGS



Center Number	Standard Bore	Length of Hub
O	1	2¾
OO	1	2¾
A	1	3¼
AA	1	3¼
B	1	3¾
BB	1	3¾
C	1	4¼
CC	1	4¼
D	1	4¾
DD	1	4¾

Letters show size and set length of Bore and size of Standard Bore. All 2-in Pulleys with a bevel face. Double bevel face indicates double face pulleys. Dashing bore name means no standard Bore and use of identical dimensions

Cut Shows Standard Bores and Length of Hubs

STANDARD BORES AND BUSHINGS

From the Standard Bores as shown, Pulleys may be fitted to any size shaft of smaller diameter by use of our system of Interchangeable Metal Bushings. One Set of Bushings Furnished Free with Each Pulley.

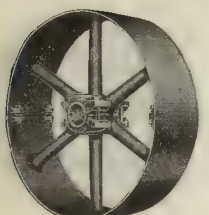
Pulleys having bores larger than Standard are subject to extra charge.

Keyseating Bushings, Net 25 Cents per Bushing.

Summary of Above Chart

Diameter	Standard Bore	Hub and Bushing Symbol	Special Bores
6 and 7 in.	$2\frac{7}{16}$ in.	"O" 2¾ in. Long	
8 to 29 in.	$3\frac{7}{16}$ in.	"A" 3¼ in. Long "B" 4¾ in. Long	Over 3 in. take "AA" Over "D" 4¾ in. Bore
30 to 60 in.	$4\frac{7}{16}$ in.	"C" 4¾ in. Long "D" 6¾ in. Long	Over 16 in. take "D" (6¾ in. bore) or "DD" (8¾ in. bore)
Special bores over 16 in. Diameter	6½ in.	"BB" 6¾ in. Long	
	8½ in.	"DD" 7¾ in. Long	

"DODGE STANDARD"



Split Iron Bushings

LIST PRICES, IRON SPLIT PULLEYS

Diam.	3	4	5	6	7	8	9	10	12	14
6	$3.25	$3.85	$4.05	$4.30	$....	$....	$....	$....	$....	$....
7	3.40	4.00	4.25	4.50	....	....	....	....	....	....
8	3.35	4.20	4.45	4.70	5.35	5.60	....	....	....	....
9	3.70	4.35	4.60	4.70	5.40	5.50	6.25	....	....	....
10	3.85	4.50	4.80	5.15	5.85	6.20	6.55	6.90	....	....
11	4.00	5.15	5.45	5.80	6.50	7.25	7.50	7.90	....	....
12	4.35	5.35	5.70	6.05	7.05	7.40	7.80	8.20	....	....
13	....	5.55	5.90	6.30	7.30	7.75	8.10	8.65	....	....
14	....	5.75	6.10	6.55	7.55	8.05	8.45	8.95	....	....
15	....	5.95	6.35	6.80	7.90	8.35	8.80	9.30	11.50	....
16	....	6.15	6.60	7.10	8.20	8.70	9.15	9.70	12.00	....
17	....	6.40	6.80	7.40	8.55	9.05	9.60	10.15	12.50	....
18	....	6.65	7.15	7.70	8.90	9.45	10.00	10.60	13.10	....
19	....	7.35	8.05	9.25	10.50	11.10	11.70	12.35	15.35	....
20	....	7.60	8.30	9.60	10.90	11.55	12.20	12.90	16.00	18.90
21	....	7.90	9.25	9.95	11.30	12.00	12.70	13.45	16.65	18.80
22	....	8.20	9.55	10.30	11.70	12.45	13.20	14.00	17.30	19.05

Diam.	4	5	6	7	8	9	10	12	14	16
23	8.45	9.90	10.65	12.10	12.90	13.70	14.55	18.00	20.45	....
24	9.70	11.25	12.05	13.85	14.70	15.60	16.50	20.40	22.95	....
26	10.50	12.05	13.00	14.80	15.85	16.90	18.00	22.25	24.96	....
28	11.30	12.90	13.90	16.00	17.10	18.15	19.45	24.10	26.80	....
30	12.15	13.85	14.95	17.15	18.40	19.70	21.15	25.85	28.80	....
32	13.00	14.65	17.25	19.70	21.15	22.65	24.15	29.20	33.50	....
34	14.90	17.10	18.50	21.10	22.60	24.30	25.85	32.30	35.70	....
36	15.90	18.25	19.70	22.45	24.10	25.85	27.60	34.30	37.90	....
38	19.05	21.45	23.10	27.85	28.90	30.80	32.70	40.15	44.00	....
40	20.20	22.80	24.60	28.80	30.70	32.65	34.65	42.30	46.40	....
42	21.40	24.20	26.10	30.45	32.45	34.50	36.60	44.50	48.80	....
44	22.75	25.70	27.75	32.20	34.35	36.50	38.70	46.90	51.40	....
46	24.15	27.20	29.35	33.95	36.25	38.50	40.85	49.50	54.10	....
48	29.00	31.20	33.50	38.85	41.25	43.85	46.45	55.90	61.30	....
50	....	32.20	35.30	40.75	43.25	45.80	48.45	58.30	64.20	77 00
52	....	34.30	37.10	42.65	45.30	48.00	50.75	61.40	67.20	80 30
54	....	36.20	38.00	44.65	47.40	50.30	53.00	64.00	70.20	83.70

STANDARD BORES FOR DODGE STANDARD IRON SPLIT PULLEYS

6	to 9	Inch	Diameter,	Inclusive..... 2 7/8 Inch Bore
10	to 24	Inch	Diameter,	Inclusive..... 2 1/2 Inch Bore
25	to 36	Inch	Diameter,	Inclusive..... 3 Inch Bore
37	to 54	Inch	Diameter,	Inclusive..... 3 1/2 Inch Bore

PATENT IRON BUSHINGS

Price, per Pair

Bushing Bore, In	Outside Diameter of Bushings			
	2 7/8 In. Price, Each	3 In. Price, Each	3 1/2 In. Price, Each	3 1/2 In. Price, Each
1	$0.60	$0.85	$....	$....
1 1/4	.65	.90	1.30	....
1 1/2	.70	1.00	1.35	1.80
2	.75	1.10	1.45	1.85
2 1/4	....	1.20	1.55	1.95
2 1/2	....	1.30	1.65	2.05
2 1/4	....	....	1.75	2.15
2 1/2	....	....	1.85	2.25
3	....	....	....	2.35
3 1/2	....	....	....	2.45

To Find Diameter of Driving Pulley: Multiply revolutions of Driven Pulley by its Diameter and divide the product by revolutions of Driver.

To Find Diameter of Driven Pulley: Multiply revolutions of Driver by its Diameter and divide product by revolutions of driven pulley.

To Find Revolutions of Driven Shaft: Multiply diameter of Pulley on Drive Shaft by its number of revolutions and divide product by diameter of pulley on driven shaft. Reverse above rule to ascertain number of revolutions of Drive Shaft.

ROLLER BEARING COASTER WAGONS

Prices on Request

BUFFALO AUTO-WHEEL

To Meet the Demand for a Medium Priced Coaster Wagon, the No. O Auto-Wheel Coaster was Designed, which in All the Absolute Essentials of Speed Durability, and General All-round Efficiency is Unquestionably a Winner. A Splendid Wagon at an Exceedingly Moderate Price

Per Dozen

No. 0—Body 12 x 28 Inches. Wheels 8 Inches. Weigh Each, About 20 Pounds

Two in a Carton

WITH QUICK DETACHABLE BOX

Differs from the Regular Auto-Wheel Only in the Addition of a Special Patented Device for Instantaneous Removal and Secure Replacement of Box, a Feature Appreciated by Every Boy

This is Accomplished by the Fastener and Release. This Release is Arranged on Principle of an Ordinary Window Fastener and a Turn of the Finger Opens or Closes It

When the Lever is Turned to Lock Box to Platform It Forces the Box Back so that the Curved Steel Pins Shown are Forced Under the Steel Protection Plates on the Bottom of Platform. When Releasing Box, the Body is Pushed Forward and the Box Lifts Off the Platform Readily

Per Dozen

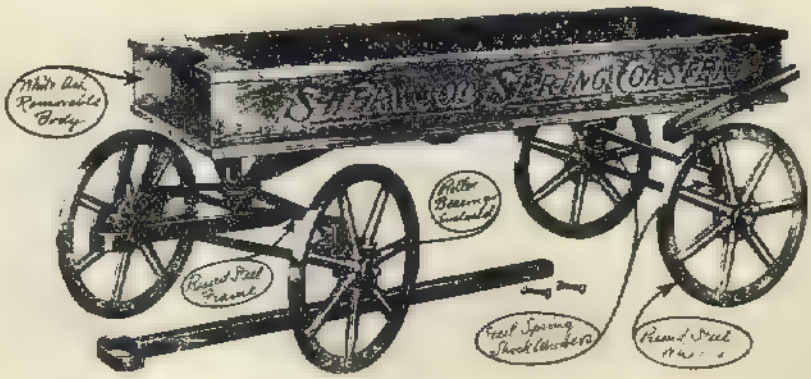
No. 11—14 x 32 Inches— 8-inch Wheels. Weight, Each, 25 Pounds
No. 22—14 x 34 Inches—10-inch Wheels. Weight, Each, 30 Pounds
No. 33—16 x 38 Inches—10-inch Wheels. Weight, Each, 35 Pounds
No. 44—18 x 40 Inches—12-inch Wheels. Weight, Each, 40 Pounds

Nos. 11 to 44 Not Carried in Stock Can Only be Furnished by Shipping Direct from Factory

SHERWOOD SPRING COASTER WAGONS

Prices on Request

EQUIPPED WITH SHOCK ABSORBERS



ROLLER BEARING STAMPED STEEL WHEEL

	Body Size	Wheel Base	Weight	Per Dozen
No. 32	14 x 32 ins.	8 ins.	32 lbs.	$
No. 34	14 x 34 ins.	10 ins.	34 lbs.	
No. 38	16 x 38 ins.	10 ins.	37 lbs.	
No. 40	18 x 40 ins.	10 ins.	43 lbs.	

One in a Carton

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

CONVERTIBLE ROADSTERS

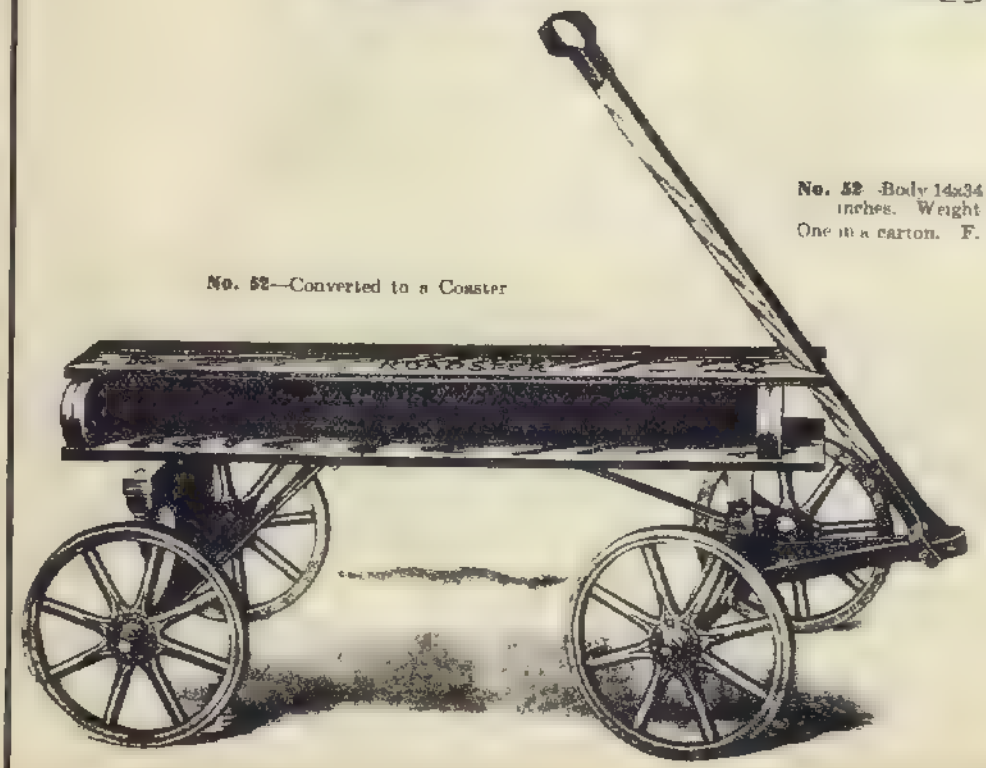
BUFFALO

Prices on Request

No. 52—As Jitney Wagon

No. 52 Body 14x34 inches. Wheel 10 inches. Weight 28 lbs. Per Dozen $ ..
One in a carton. F. O. B Buffalo only

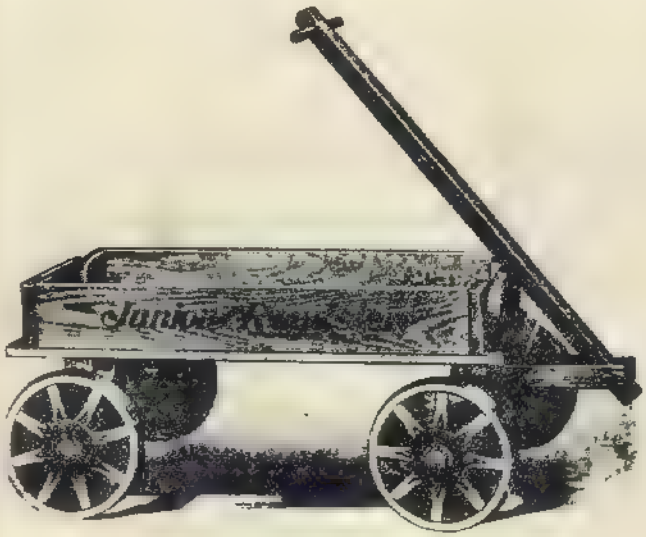
No. 52—Converted to a Coaster



JUNIOR CONVERTIBLE ROADSTER

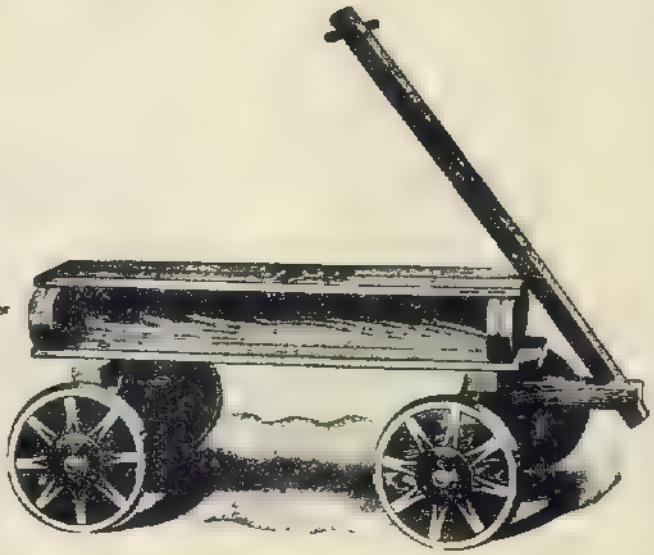
The Most Useful Boy's Wagon Ever Devised. **Turn Up the Sides and It's a Real Coaster—Turn Them Back and it's a Regular Roadster.** Two Wagons in One Made by the Manufacturers of the Nationally Advertised Auto-Wheel Coaster. Equipped with Roller Bearing Steel Axles and Hubs Dust Proof Hub Caps. **Substantially Made—Light Running.**

Prices on Request



As a Roadster

As a Coaster

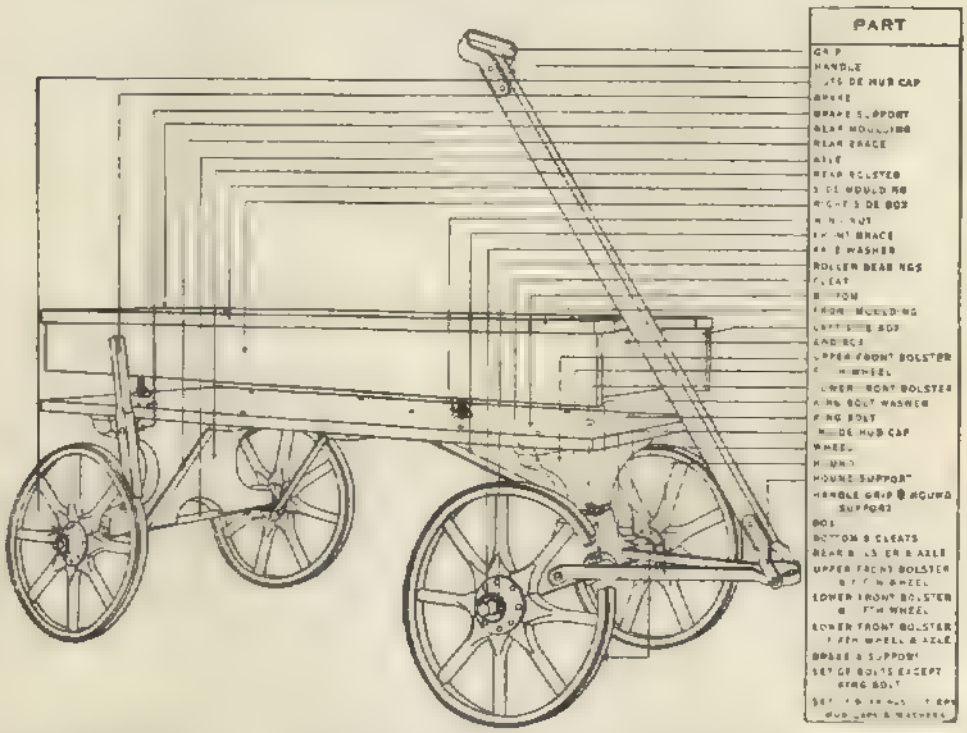


Per Dozen

No. 51 Body, 21 x 11 Ins. 6-in. Solid Wheels (Spokes Painted). Wt., Per Carton About 24 Lbs. $31.50 ⓓ
Packed two in a carton.

PARTS BUFFALO COASTER WAGONS

PRICES ON REQUEST SHIPMENTS DIRECT FROM FACTORY



Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

TUBULAR LANTERNS

DIETZ

Mechanically Perfect. Convenient and Safe. Made for Wear. Not Affected by Draughts.

"WIZARD" COLD BLAST

A New Type of Lantern, Having the Exposed Wick and Convenient Short Globe. Has Dome-shaped Solderless Oil Fount with Large Oil Filler, Patent Reinforced Tubes and Security Standing Bail Hooked into Patent Brass Eyelets. **No. 2** Patented Tinned Steel Burner Wick, 1 Inch. "D-Lite" Globe. Will Burn **20 Hours.** Height Over All, 13¼ Inches.

	Per Dozen
No. 45—Bright Tin	**$22.70**
No. 46 Bright Tin, Brass Fount and Top	**31.25**

One dozen in a case. Weight, per dozen, about 45 pounds.

"VICTOR" HOT BLAST

Equipped with **No. 1** Safety Wing-lock Burner, Positive-locking Globe Lift and Security Standing Bail Hooked into Patent Brass Eyelets. Has Dome-shaped Solderless Oil Fount with Large Oil Filler. Fount Holds Enough Oil to Burn **12 Hours** Wick, ¾ Inch "Fitzall" Globe

	Per Dozen
No. 35—Bright Tin. Height Over All, 13½ Inches	**$15.00**

One dozen in a case. Weight, per dozen about 33 pounds

IMPROVED "HY-LO" HOT BLAST

Designed to Fill Demand for a Satisfactory Low-priced Lantern. **No. 1** Patent Tinned Steel Burner Fount Capacity such as to Burn **12 Hours.** Wick, ¾ Inch "Fitzall" Globe. Height Over All, 13½ Inches. **Bright Tin.**

	Per Dozen
No. 10	**$14.60**
No. 10R—With Contractors Red Globes	**20.60**

One dozen in a case. Weight, per dozen, about 36 pounds

WIZARD COLD BLAST

10 Candle Power Light

Burns 40 Hours

Extra Large Fount

Made of AA Quality Open Hearth Charcoal Tin. DeLite Globe (Loc-Nub) Double Seamed Solderless Dome Shape. Upright Bail Put On with Brass Eyelet. Double Wing Lock Burner. Reinforced Corrugated Tubes 1-inch Wick

	Per Dozen	
No. 875—Size 2. Height over all, 13½ in Half dozen in a case	$19.00	**$24.00**

"LITTLE STAR" HOT BLAST

Modeled on the Lines of the Famous Dietz "Victor," but Smaller in Size. Has the Security Standing Bail Hooked into Patent Brass Eyelets. **No. 1** Patent Safety Wing-lock Burner Positive-locking Globe Lift and Dome-shaped Solderless Oil Fount which Holds Sufficient Oil to Burn **12 Hours** Wick, ¾ Inch. U. S. Globe

	Per Dozen
No. 20—Bright Tin. Height Over All, 11 Inches	**$14.00**

One dozen in a case. Weight, per dozen, about 27 pounds.

TUBULAR LANTERNS

DIETZ

"BLIZZARD" COLD BLAST

Reinforced Tubes. Globe Lift Inside of Frame. Dome-shaped Solderless Oil Fount with Large Oil Filler. Security Standing Bail Hooked into Patented Brass Eyelets. Etc. **No. 2** Winglock Burner with Rising Cone. 1-Inch **Exposed Wick.** "Blizzard" Globe Burns **20 Hours.** Ht. Over All, 14½ Ins

	Per Dozen
No. 70—Bright Tin	**$25.00**
No. 72 — Crescent. Pattern of No 70, designed to meet demand for Low-Priced "Cold Blast" type	**22.00**

Burns 40 Hours. Ht. Over All, 15 Ins

No. 75	**$37.50**

Half dozen in a case

"JUNIOR" COLD BLAST

Globe Lift Inside of Frame. **No. 1** Patent Safety Winglock Burner. Security Standing Bail Hooked into Patent Brass Eyelets. Dome-shaped, Solderless Oil Fount with Brass Oil Filler, Etc. Burns **12 Hours.** Wick, ¾ Inch. Height Over All, 12 Inches. "Junior" Globe

	Per Dozen
No. 85—Bright Tin	**$18.50**

One dozen in a case

DASH LAMPS OR LANTERNS

DIETZ

Black Enamel. Large Oil Filler. Safety Oil Well. **Dash Clip-spring. Solderless Oil Fount**

"BEACON" HOT BLAST

Equipment Includes a Bail, a Bright Tin Hood and a 5-Inch Silvered Reflector **No. 1** Safety Winglock Burner. ¾-Inch Wick. "Fitsall" Globe. Burns **20 Hours.**

	Per Dozen
No. 80—Height Over All, 13½ Inches	**$41.00**

"BUCKEYE" HOT BLAST

Equipped with Bail, Magnifying Bullseye Lens, Corrugated Tin Reflector, **No. 1** Patent Safety Winglock Burner, ¾-Inch Wick and "Fitsall" Globe Burns **10 Hours.**

	Per Dozen
No. 85—Height Over All, 13½ Inches	**$34.00**

Half dozen in a case

We Especially Solicit and Pay Particular Attention to Mail Orders

WAGON LAMPS

DIETZ

Carried on Side of Vehicle, Lighting the Road Ahead and at the Same Time Showing Red Danger Signal to the Rear. Equipped with Corrugated Tin Reflector, a 2¼-Inch Ruby Rear Lens and a Combination Holder, Consisting of a Side Clip-spring and a Socket Taking a Round or Flat Bracket

"JUNIOR" COLD BLAST

Magnifying Bullseye Lens in Front of Flame. Wick ½ Inch. "Junior" Globe. **No. 1** Tinned Steel Burner. Burns **13 Hours.** Height Over All, 12 Inches. Right or Left Hand

Per Dozen

No. 100—Black Enamel **$31.90**

Half dozen in a case

RAILROAD LANTERNS

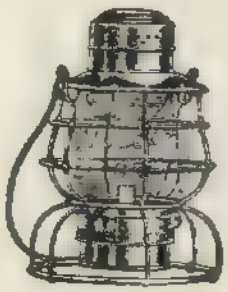
DIETZ

Equipped with **No. 2** Patented Winglock Burner which Fits into a Slip Collar and Rests on a Fibre Washer Permanently Secured to the Fount. Short Turn of Wrist Securely Locks Burner. Oil Fount is Held Securely to Frame by Patented Automatic Retaining Spring, which Permits Same Being Removed with One Hand. Safety Oil Well. Outside Wick Raiser. Burns **24 Hours.** 1 Inch Wick. "Vulcan" No. 39 Globe. **Bright Tin.**

"STANDARD"

Per Dozen

No. 30—Round Wire Guards and Heavy Stamped Base. Height Over All, 10 Inches **$33.00**



"VULCAN"

Per Dozen

No. 130—Round Wire Guards and Skeleton Base **$33.00**

One dozen in a case.

"L. C. R." SWITCHMAN'S

Per Dozen

No. 230—Flame Regulated From Outside. Insulated Bail Can be Locked in Upright Position. Height Over All, 9 Inches..... **$43.00**

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

DRIVING LAMPS

DIETZ

Made of Cold Rolled Steel Clip Spring Permits Its Use on Front of Dash **Ruby Rear Lens, 2¼ Inches.** Parts, Including Non-tarnishing Aluminum Reflector, are Removable Right and Left Hand Holder Sockets ¼-Inch Wick Burns **10 Hours.** 5½-Inch Door Lens **Nickel Plated Brass Burner No. 510. Black Enamel with Nickel Plated Door Rim.** Packed with Dash Clamp Holder. Height Over All, 11¼ Inches

"OCTO" COLD BLAST

	Per Dozen
No. 116—Plain Lens	**$49.90**
No. 115—Optical Lens	**75.10**

Half dozen in a case. Weight, per dozen, about 56 pounds

Extra Catches

	Per Dozen
No. 3—Brass. For No. 110 or 116 Lamp	**$1.70**
No. 4—Brass. For No 111 or 115 Lamp	**1.70**

Loose

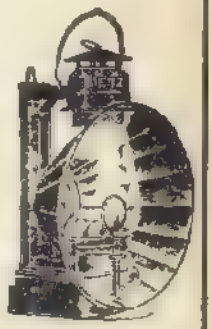
"EUREKA"

Supplies Demand for a Small but Reliable Lamp Made of Cold Rolled Steel 3-Inch Door Lens **Ruby Rear Lens, 2¼ Inches.** Burns **16 Hours. Black Enamel with Nickel Plated Door Rim.** ¼-Inch Wick. **Patented Tinned Steel Burner No. 581.** Packed with Dash Clamp Holder

Plain Lens

	Per Dozen
No. 120L—Left Hand	**$34.00**

One dozen in a case



"BEACON LIGHTS"

Useful Wherever a Strong Reflected Light is Required May be Filled, Lighted and Regulated Without Removing Globe Not Adaptable as Hand Lamp or for Vehicle Light Green Enamel

	Per Dozen
No. 30—Burns 35 Hours. No. 1 Burner. 2¼ Inch Bullseye Lens 1-Inch Wick Height 20¼ Inches. "Buzzard" Globe	**$47 90**

Half dozen in a case

LANTERN AND LAMP HOLDERS

DIETZ

No. A—Dash Clamp Holder May be Used with "Victor," "Junior" and "Wizard" Wagon Lamps and on Dash Boards of "Eureka," "Octo" and "Union" Driving Lamps

Per Dozen **$7.55**

No. B Finger Prop Holder. For Side of Driver's Seat or Wagon Box. May be Used with "Victor," "Junior" and "Wizard" Wagon Lamps and "Eureka," "Octo" and "Union" Driving Lamps

Per Dozen **$7.00**

No. E—Flat Bracket Holder. May be Used with "Victor" "Junior" and "Wizard" Wagon Lamps to Locate Same on Side of Vehicle

Per Dozen **$3.30**

Buggy Type Rail Holder

Holds Lantern in Best Position to Light Roadway Ahead Made of Cast Steel Enameled Black. Size, 2 x 2½ x 3 Ins

Per Dozen

No. R . . . **$7.00**

Loose.

MILL LANTERNS

DIETZ

"BLIZZARD" COLD BLAST

Frame Strongly Reinforced and Braced to Oil Fount. **No. 2** Burner Locked on Lantern Body. Fount Equipped with Safety Oil Well and Large Oil Filler. Hinged Guard Protects Globe. Locking Device for Use with Small Padlock Prevents Tampering with Flame. 1-Inch Wick Burns **18 Hours.** "Blizzard" Globe Height Over All, 14¾ Inches

Per Dozen

No. 125—Red Enamel **$57.40**

One dozen in a case

FOUNTS AND BURNERS

DIETZ

Per Dozen

No. 3 For Nos 130 and 135 Lamps **$43.00**

Loose

BRACKETS

DIETZ

Each

No. 145—Iron. Black Japan Finish Length, 20 Inches .. . **$3.00**

Three in a case

Per Dozen

No. 2—For Octo Driving Lamp Iron Black Japan Finish..... **$7.00**

STREET AND PLATFORM LAMPS

DIETZ

No 130

Burns 24 Hours.

1½-Inch Wick.

No. 3 Burner.

"Pioneer" Globe.

No. 135

Requires no Chimney and Gives a Steady Light Double That of an Ordinary Gas Street Lamp. May be Filled, Lighted and Regulated Without Removing Globe. Have a Self-Extinguishing Device that May be Set to Burn for a Certain Number of Hours.

"PIONEER" POST OR BRACKET

Each

No. 130 Green Enamel. Socket Opening. Height Over All, 25½ Inches. Cold Blast **$9.00**

"PIONEER" HANGING

Each

No. 135—Green Enamel. Stamped Base. Height Over All, 21½ Inches .. . **$10.30**

One in a case

No. 2

"CLIMAX"

Adaptable to Both Indoor and Outdoor Purposes, and is Largely Used for the Illumination of Dancing Platforms, Skating Ponds, Etc. May be Used for Gas by Substituting a Gas Pipe and Burner in Place of the Oil Fount and Burner. Burns **23 Hours.** 1-Inch Wick. **No. 162 Burner.** 8-Inch Silvered Glass Reflector. Height, 17½ Inches. Width, 10½ Inches. Depth, 8¾ Inches.

Each

No. 2 Green Enamel **$7.30**

One in a case

ELECTRIC PUSH BUTTONS

Nos. 4000/14 and 8000/14

Nos. P154/14 to P178/14

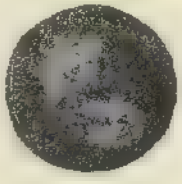
Nos. C254/14 to C278/14

		Per Dozen
No. 4000/14—Anti-Wood.	Bronze-plated Steel, Natural Finish No screws Visible Can Snaps to Back	$3.00
No. 8000/14—Anti-Wood.	Bronze-plated Steel, Old Copper Finish No Screws Visible Can Snaps to Back	3.00
No. P154/14 Wrought Bronze Metal.	Natural Finish Loose Back Size, 4 x 1½ Inches	6.00
No. P157/14—Wrought Bronze Metal.	Old Copper Finish. Loose Back. Size, 4 x 1½ Inches	6.00
No. P178/14—Wrought Brass Metal.	Dul. Brass Finish Loose Back. Size, 4 x 1½ Inches	6.00
No. C254/14—Wrought Bronze Metal.	Natural Finish Loose Back Size, 4¼ x 1½ Inches	6.10
No. C257/14—Wrought Bronze Metal.	Old Copper Finish Loose Back. Size, 4¼ x 1½ Inches	6.00
No. C278/14—Wrought Bronze Metal.	Dull Brass Finish. Loose Back. Size, 4¼ x 1½ Inches	6.00
	Nos. 4000/14 to 8000/14, 25 in a box; balance, half dozen	6.00
	Wt., per doz. about 1½ lbs.	

Size of Bell, 3½ Inches Nickel-plated Finish. Size of Plate, 3¼ x 1¾ Inches. Old Copper Finish

No. 3670 ..... Per Dozen **$17.00**

One set in a box, complete. Weight, each about 1 lb



Size of Bell, 3¼ Inches, Old Copper Finish. Size of Plate, 2¼ Inches Round Old Copper Finish

No. 122 ..... Per Dozen **$24.40**

One set in a box complete Weight, each, about 1 lb.

Plate for Nos. 4015, 4020, 4022 and 4070

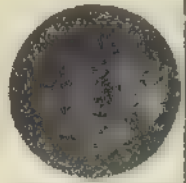
BRONZE METAL

Bell furnished with Nos. 4015, 4020, 4022 and 4070

Nos.	Size of Bell Inches	Finish	Size of Plate Inches	Finish	Per Dozen
4015	3½	Natural	3¾x1¾	Natural	$24.40
4020	3½	Nickel Plated	3¾x1¾	Dull Brass	24.40
4022	3½	Old Copper	3¾x1¾	Old Copper.	24.40
4070	3½	Nickel Plated	3¾x1¾	Old Copper	17.00

One set in a box, complete. Weight, each, about 1 lb.

ROTARY DOOR BELLS



BRONZE METAL

Pol... Nos. 2... 291 and 292 ...

Ba... furnished with ...

No	Size of Bell Inches	Finish	Size of Plate Inches	Finish	Per Dozen
202	3	Old Copper	3½x1½	Old Copper	$22.80
291	3	Nickel Plated	3½x1½	Natural	19.20
292	3	Old Copper	3½x1½	Old Copper	19.20

One set in a box, complete. Weight, each, abo... lb.

BRONZED IRON

Size of Bell ... Inches. ... Finish

No. 656 ... $9.55

One ... complete ... Weight ... lb

BRONZE METAL

Size of Bell ... Inches. Nickel Plated. Size of Plate ... Inches. Old Copper Finish

No. 3601 ... $2.20

One set in a box, complete ... 1 lb

BRONZE METAL

Be... furnished with Nos. 4091, 4092 and 409...

Plate... Nos. 409... 4092 and 4...

No	Size of Bell Inches	Finish	Size of Plate Inches	Finish	Per Dozen
4091	3	Nickel Plated	3½x1½	Dull Brass	$19.20
4092	3	Old Copper	3½x1½	Old Copper	19.20
4093	3	Natural	3½x1½	Natural	19.20

One set in a box, complete. Weight, each, about 1 lb

BRONZE METAL

Size of Bell, 3 Inches. Nickel Plated. Size of Plate, 3½ x 1½ Inches. Old Copper Finish. Per Dozen $...

No. 3241 ...

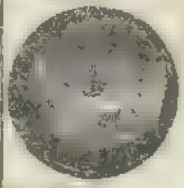
... a box, complete. Weight ... about 1½ lbs.

BRONZE METAL

Size of Bell ... Inches. Nickel Plated. Size of Plate ... Inches. Old Copper Finish. Per Dozen $10.55

No. 3441

One set in a box, complete. Weight, each, about ... lbs.

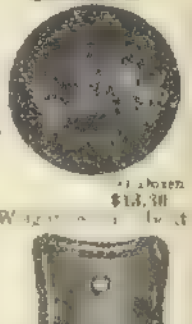


BRONZE METAL

Size of Bell, 3 Inches. Nickel Plated. Size of Plate ... Inches. Old Copper Finish. Per Dozen $10.55

No. 3541

... a box, complete. Weight ... about 1½ lb



BRONZE METAL

Size of Bell, 3 Inches Nickel Plated. Size of Plate ... x 1½ Inches. Old Copper Finish

No. 4205 ... $13.30

One set in a box, complete. Weight ... 1½ lb

BRONZE METAL

No	Size of Bell Inches	Finish	Size of Plate Inches	Finish	Per Dozen
600...	3	Nickel Plated	4x1½	Dull Brass ...	$13.30
6006OC	3	Nickel Plated	4x1½	Old Copper ...	13.30

One set in a box, complete. Weight, each, about 1½ lb

BATTERY TESTERS

Termed Pocket Meters

FOR TESTING THE AMPERAGE

For Gauging the Strength of a Cell or Battery. When Connected in Series One Dead Cell will Kill the Circuit. The Ammeter Detects the Inactive Cell.

EVEREADY

The Readings are Controlled by a Fine, Phosphor Bronze Spring, which is Very Accurate. It is Invaluable to Merchants to Test Shipments to Protect Themselves Against Exhausted Batteries. Nickel-plated Brass Case. White Dial Glass Face. 2-inch Diameter. 4-inch Braided Cord.

No. 1002M $2.00

One in a box; weight, 3 ozs.

GLADIATOR

0 to 30 Amperes. 1 Ampere Divisions. For Testing Dry Batteries as Used by Automobiles, Motor Boats, Stationary or Portable Explosive Engines, Telephones, Bell Circuits, Etc. Guaranteed for Life.

Each

No. 100 Nickel-plated Case, White Dial Glass Face, Diam. 2½ Ins., 5½-in. Braided Cord $2.80

One in a box. Weight, each, about 10 ounces.

ELECTRIC DOOR BELL SETS

Wet Battery

Dry Battery

Per Set

WET BATTERY

No. 14—Complete Set: Consisting of One 3-in. Standard Iron Box Bell, One Wood Push Button, One Carbon Cylinder Battery, Round Glass Jar, Zinc, 50 Feet Annunciator Wire, 2 Feet Electrician's Tape, Staples, 4½-oz. Package Sal Ammoniac $3.10

One set in a box.

DRY BATTERY

No. 140—Complete Set: Consisting of One 3-in. Standard Iron Box Bell, One Wood Push Button, One Dry Cell Battery, One Box Staples, Electrician's Tape, 40 Feet Annunciator Wire $3.00

One set in a box.

ELECTRIC BUZZERS

IRON BOX

Japanned Metal Case. Size, About 3½ x 2½ Inches.

Each

No. 1848—Makes a Low Burring Sound and is Easily Distinguished from a Bell $1.30

One in a box.

ELECTRIC DOOR BELLS

FOR ELECTRIC WIRE CONNECTION

IRON BOX

Nickel-plated Steel Gong, Japanned Metal Case. Pressed Steel Cover.

WOOD BOX

Nickel-plated Steel Gong, Varnished Wood Box.

		Each			Each
No. **640½**	2½-in. Gong	$1.25	No. **643½**	2½-in. Gong	$1.10
No. **640**	3-in. Gong	1.25	No. **643**	3-in. Gong	1.30
			No. **644**	4-in. Gong	2.65

One in a box.

ELECTRIC BELL SUPPLIES

WET BATTERIES

For Electric Bells, Annunciators, Telephones and Gas Lighting Work. The Addition of Water Makes it Ready for Use.

Per Set

No. 1238—6½ x 4½-in. Clear Glass Jar, Carbon Cylinder with Zinc and 4½-oz. Package Sal-Ammoniac . . . Loose. $1.10

ROUND GLASS JAR ONLY

Per Dozen

No. 1—Size, 6½ x 4½ Inches. Weight, Per Doz., About 15 Lbs. $2.65

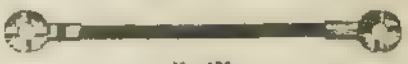
50 in a case.

CARBON CYLINDERS

Per Dozen

No. 3 Porcelain Insulator. Weight, Per Doz., About 16 Lbs. $3.85

BATTERY CONNECTORS



No. 100

No. 1025

Per 100

No. 100—Lamp Cord, Copper Terminals on Each End. Length, 4½ Inches $4.00

100 in a box.

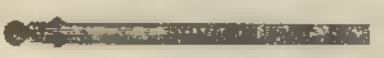
BULL DOG

No. 1025—Spring Brass Terminal Brass Dipped. Length, 4½ Inches 9.40

10 in a box.

ELECTRIC BELL SUPPLIES

ROD OR PENCIL ZINC



No. 2—Best Quality Copper Set Screws. Length, 6¼ Inches Diameter, ¾ Inch..... Per 100 $12.30

1000 in a case

INSULATED WIRE

No 4½ and 4

No 5

No. 4½—Red. ¼ Lb Coil..... Per Pound $1.20
No. 4 —Red. 1 Lb Coils..... 1.15
One coil in a pasteboard box
No 5 —Blue. 7-Lb Spools or Reels..... Per Pound $1.10
About 4 Miles to a Reel
Wound on a wooden spool

SAL-AMMONIAC

No. 8 In Bulk..... Per Pound $ .40
308 lbs in a barrel.
No 81 In 5-lb. Packages..... .45
No. 84½—1, 4 Packages..... Per Dozen
Loose. $1.85

FRICTION TAPE

No. 7 1 Lb Packages..... Per Dozen $1.50
No. 07 ½ Lb Packages..... 1.00
Loose

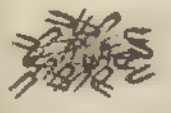
PORCELAIN INSULATORS

No. 24—White Porcelain. Size, 1¼ x ¾ Inches. Weight, Per Dozen, About 9 Ozs..... Per Dozen $ .60
Loose

BINDING POSTS OR SCREWS

No. 12 —For Carbon Cylinders. Consists of Brass Machine Screw and Two Nuts..... Per Dozen $1.50
One gross in a box

STAPLES OR TACKS



No. 6 —Flat, ¾ Inch 1 Lb Papers..... Per Pound $ .35
Loose.

ELECTRIC BELL SUPPLIES

WOOD PUSH BUTTONS

No. 0 Oak Finish Nicely Varnished Porcelain Center..... Per Dozen $2.20
Loose

POINT SWITCHES

Varnished Wood Base 1¼ Inch Nickel-plated Arm

No. 21—1 Point..... Each .26
No. 22—2 Points..... .28
Loose

DRY BATTERIES

Size, 6 x 2½ Ins. Voltage, 1.55. Weight, Each, About 2¼ Lbs

COLUMBIA IGNITOR

Embodies Highest Degree of Efficiency and Reliability. Adapted to All Kinds of Ignition Work and Lighting Electric Lamps on Automobiles, Launches, Engines, Motor Cycles, Etc. Can Also Be Used for Open Circuit and Intermittent Work. Amperage 22 to 28

No. 6CI Each $ .80

COLUMBIA REGULAR

Made of Very Highest Grade Tested Materials. Guaranteed for Long Service. For Open Circuit and Intermittent Service, as Telephones, Bells, Signals, Telegraph Outfits Etc. Can Be Used for Ignition Purposes on Light Engines. Amperage, 20 to 24

No. 6CR Each $ .75

EVEREADY

Adapted to All Kinds of Ignition Work Requiring a High Amperaged Battery. Built Especially for Gas Engine Work. Size, 6 x 2½ Ins. Amperage 23 to 25. Voltage, 1.6. Weight, Each About 2¼ Lbs

Round

No. 406R Each $ .90

Square

No. 406S .80
125 in a Barrel packed securely in straw

EVER-READY "THIRTY" IGNITION

High Initial Amperage. Gives Exceptionally Good Service in Any Kind of Open Circuit Work or for Ignition.

No. 436R—Round..... Each $ .78
No. 436S—Square..... .78
125 in a Barrel, packed securely in straw

BELLS

Nos 300 and 310

ALARM

OUTSIDE STROKE

Size, 4 Inches

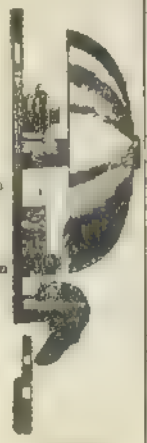
Bronzed Steel

		Per Dozen
No. 300		$12.65

Polished Bell Metal

		Per Dozen
No. 310		$25.30

One in a box



Nos 103 to 114

ALARM

NICHOL'S PATENT

Bronzed Steel

	Per Dozen
No. 103—3 Inches	$12.65
No. 104—4 Inches	14.30

Polished Bell Metal

	Per Dozen
No. 113—3 Inches	$23.35
No. 114—4 Inches	24.95

One in a box

Nos 124 and 125

ALARM

BARTON'S PATENT

Size 4 Inches.

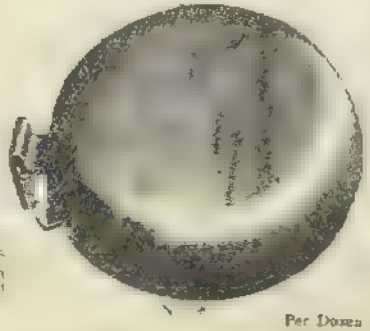
Bronzed Steel

		Per Dozen
No. 124		$14.00

Polished Bell Metal

		Per Dozen
No. 125		$23.50

One in a box.



AUTOMATIC ALARM

NEW DEPARTURE

Maintains Continuous Alarm While Door is Open. Equipped with Snap Mechanism. Nickel plated Bell Metal

	Per Dozen
No. 90—3 Inches.	$12.50

One in a box

Nos H100 and H200

DOOR

HAHN'S PATENT ADJUSTABLE

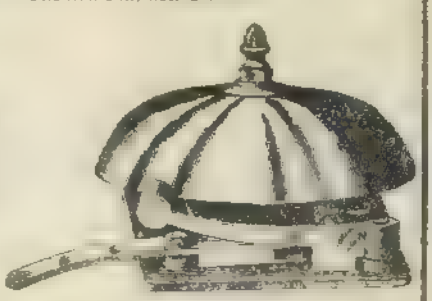
Constructed so Transom can be Opened Easily. Lever Fits Into Plate and is Fastened with Thumb Screw. Japanned Plate 2 x 1 1/4 Ins. Size of Gong, 3 1/2 Ins. Takes No. 9 Screws

		Per Dozen
No. H100	Bronzed Iron	$17.20
No. H200	Polished Brass	20.35

One in a box, with screws

TRIP GONG

The 7, 8 and 10-inch of No 230 Have Wooden Hammer



Aluminum Coated Steel

No. 330—Size of Gong, Ins.	6	7	8	10
Per Dozen	$32.00	42.00	62.00	102.00

Polished Bell Metal

No. 230—Size of Gong, Ins.	5	6	7	8	10
Per Dozen	$36.00	55.00	74.00	100.00	180.00

One in a package.

HOUSE GONG

NICHOL'S PATENT

Bronzed Steel

No. 220 Size, Inches	3	4	5	6
Per Dozen	$9.50	12.00	16.10	23.00

Polished Bell Metal

No. 225 Size, Inches	3	4	5	6
Per Dozen	$18.50	23.00	33.00	46.00

IRON HORSESHOES

Made of best material. Smooth and uniform. Correctly creased. Holes cleanly punched. Hoof surface of front shoe, concave. Hind shoe, flat.

HIND

FRONT

EXTRA LIGHT. IRON

Nos.	0	1	2	3	4	5	6	7
Weight each, ozs	11	13½	16½	19	22½	25½	30½	36
Average shoes to keg	145	118	97	84	71	63	52	44

LIGHT. IRON

Nos.	0	1	2	3	4	5	6	7	8
Weight each ozs.	12	14½	18	22	25	31	37	43	46
Av. shoes to keg.	133	110	89	73	64	51	42	37	35

MEDIUM. IRON

Nos.	1	2	3	4	5	6	7	8
Weight each, ozs	17	21	26	31	36	43	49	56
Average shoes to keg.	94	76	61	51	44	37	33	28

HEAVY. IRON

Nos.	1	2	3	4	5	6	7	8
Weight each, ozs	19	22	27½	33	39	45	49	56
Average shoes to keg.	84	70	58	48	41	34	33	28

HIND

EXTRA LIGHT. IRON

Nos.	0	1	2	3	4	5	6	7
Weight each, ozs	9	10½	13½	16½	19½	23½	27	34
Average shoes to keg.	177	152	118	97	82	68	59	46

LIGHT. IRON

Nos.	0	1	2	3	4	5	6	7	8
Weight each ozs.	10	12	15	18	23	27	32½	34	45
Av. shoes to keg.	160	133	106	89	70	59	49	47	35

MEDIUM. IRON

Nos.	1	2	3	4	5	6	7	8
Weight each, ozs.	14	17	21	26	31	34	40	45
Average shoes to keg.	114	91	76	61	51	47	40	35

HEAVY. IRON

Nos.	1	2	3	4	5	6	7	8
Weight each, ozs.	17	19	24	28	33	38	40	46
Average shoes to keg.	106	89	70	59	50	43	37	35

Iron mixed, in keg. Extra Light—Front and hind. Light—Front and hind. Medium Front and hind. Heavy Front and hind.

HEAVY LONG HEEL CITY. HIND

LONG HEEL. CITY PATTERN

Made of best grade of puddled iron, and especially adapted for heavy city work.

HEAVY IRON

Nail holes are set further back than on regular patterns, allowing the welding on of large calks without weakening the shoe.

FRONT

Nos	3	4	5	6	7	8
Weight each, ozs	28½	35	39	46	55	58
Average shoes to keg	56	46	41	35	29	27

HIND

Nos.	3	4	5	6	7	8
Weight each, ozs	26½	29½	35½	40	47	52
Average shoes to keg	60	54	45	40	34	30

Front only, hind only in kegs of one number, 3 to 8.

All above, 100 lbs in keg. Shipping weight, 108 lbs.

HEAVY LONG HEEL CITY. FRONT

IRON HORSESHOES

SNOW. FRONT. IRON

SNOW

Round bevel lessens balling of snow and, having sharper edges, prevents slipping. Also excellent shoe to prevent horses throwing mud and loose gravel. Hoof surface, both hind and front, flat.

FRONT

Nos.	1	2	3	4	5	6
Weight each, ozs.	13	16	19	24	27	33
Average shoes to keg	118	100	83	66	59	48

HIND

Weight each, ozs.	10	12	16	20	23	28
Average shoes to keg	160	128	109	78	68	57

Front only, hind only and front and hind mixed, in kegs of one number, 0 to 6.

Snow shoes approximately same weight as extra light iron.

SNOW. HIND. IRON

PRAIRIE. PLAIN. IRON

PRAIRIE. PLAIN

Nail holes pritcheled. Heels plain, not turned up. Ready for use Inside bevel prevents the shoe pulling off in mud, and also prevents slipping. Hoof surface flat.

Nos.	00	0	1	2	3
Weight each, ozs.	8	10	12	15	16
Av. shoes to keg	188	160	128	106	97

Are lighter than extra light iron shoes. In kegs of one number, 00 to 3.

PRAIRIE. PLAIN. IRON

MULE. IRON

MULE

Best material, smooth and uniform. Correctly creased. Holes cleanly punched. Hoof surface flat.

Nos.	1	2	3	4	5	6
Weight each, ozs.	11	14	18	22	27	32
Average shoes to keg	139	110	89	73	59	50

JACK. IRON

JACK

Smooth and uniform. Correctly creased. Holes cleanly punched. Hoof surface flat.

No.	Jack
Weight each shoe, ozs.	6½
Average number, per keg	246

In kegs only.

All above, 100 lbs in keg. Shipping weight, 108 lbs

STEEL HORSESHOES

FRONT. STEEL

HIND. STEEL

Made of best material. Smooth and uniform, correctly creased. Holes cleanly punched. Hoof surface of front shoe, concave. Hind shoe, flat.

E. E. L. STEEL

Nos.	0	1	2	3	4
Weight each, ozs	10	12	14	17	20
Average shoes to keg	160	133	114	94	80

E. L. STEEL

Nos.	0	1	2	3	4	5	6
Wgt each, ozs.	11	13½	16½	19	22½	25½	31½
Av. shoes keg.	145	123	103	86	71	63	50

LIGHT STEEL

Nos.	1	2	3	4	5	6
Weight each, ozs	14½	18	22	25	31	37
Average shoes to keg.	110	89	73	64	51	43

MEDIUM. STEEL

Nos.	1	2	3	4	5	6
Weight each, ozs.	17	21	26	31	37	43
Average shoes to keg.	94	76	61	51	43	37

HEAVY. STEEL

Nos.	1	2	3	4	5	6	7	8
Wgt each, ozs.	19	22	27½	33	39	45	49	56
Av. shoes keg.	84	70	58	48	41	35	33	28

E. E. L. STEEL

Nos.	0	1	2	3	4
Weight each, ozs	8	9	10	12	15
Average shoes to keg.	200	177	160	133	106

E. L. STEEL

Nos.	0	1	2	3	4	5	6
Wght each, ozs	9	10½	13½	16½	19½	23	27
Av. shoes keg.	177	152	118	97	82	70	59

LIGHT STEEL

Nos.	0	1	2	3	4	5	6
Wght each, ozs	10	12	15	18	23	27	32
Av. shoes keg.	160	133	106	89	70	59	50

MEDIUM. STEEL. STRAIGHT HEEL

Nos.	1	2	3	4	5	6
Weight each, ozs.	14½	18	21	26½	32½	34
Average shoes to keg.	109	88	74	60	49	46

HEAVY. STEEL

Nos.	1	2	3	4	5	6	7	8
Wght each, ozs	16½	19½	24	28½	33½	38	40	46
Av. shoes keg.	97	82	66	56	48	42	40	35

Steel mixed in keg—Extra Extra Light, front and hind. Extra Light, front and hind. Light, front and hind. Light, front and medium hind. Medium, front and hind. Heavy, front and hind. Countersunk, front and hind.

All steel shoes packed in red end kegs.

Note—Hind shoes in E. E. L., E. L. and Light have mule heels, as illustrated. Medium hind have straight heels.

All above, 100 lbs in keg. Shipping weight, 108 lbs.

HORSESHOES

Made of best material. Smooth and uniform. Correctly creased. Holes cleanly punched.

MULE. STEEL

HOOF SURFACE FLAT

Nos.	00	0	1	2	3	4	5
Weight each, ozs	8	9	11	14	18	22	27
Average shoes to keg	197	168	139	110	89	73	59

Mule shoes in kegs of one number.

FRONT. COUNTERSUNK. STEEL

CALKED. FRONT. STEEL

COUNTERSUNK

SIX HOLES

Nail holes countersunk. Shoes slightly round bevel, similar to iron, snow. Hoof surface, front, slightly concave; hind, flat.

Front

Nos.	0	1	2	3	4
Weight each, ozs.	8	10	12	15	18
Av. shoes to keg..	200	160	133	106	88

Hind

Nos.	0	1	2	3	4
Weight each, ozs.	7	8	9	11	14
Av. shoes to keg..	228	200	177	145	114

Front only, hind only, and front and hind, mixed in kegs of one number, 0 to 4.

HIND. COUNTERSUNK. STEEL

CALKED. HIND. STEEL

IDEAL CALKED

FRONT AND HIND MIXED

Front

Nos.	0	1	2	3	4	5
Weight each, ozs		12	14	16	20	25
Average shoes to keg..		133	114	97	80	64

Hind

Nos	0	1	2	3	4	5
Weight each, ozs		12	14	16	20	25
Average shoes to keg..		133	115	97	80	64

Front and hind, equal quantities of one hundred in keg, 1 to 5

All steel shoes packed in red-end kegs.

All above, 100 lbs in keg. Shipping weight, 108 lbs.

TOE CALKS

BLUNT OR CITY PATTERN

For heavy traffic

Medium long, extra long, blunt

Nos.	1	2	3	4	5	6	7
Length, in. med	1¾	2	2¼	2½	2¾	3	3¼
Width, inch	½	7/16	5/8	5/8	5/8	5/8	7/8
Thickness, inch	5/16	3/8	3/8	7/16	7/16	½	½
Average no. to lb	12	9	7	5	4	3	3
Per lb							$0.15

Note—Long blunt are ¼ inch longer than medium. Extra long blunt are ¼ inch longer than long blunt.

Nos.	Square 4	Square 5	Flat 4
Short blunt size, in	2¼x½x½	2⅛x⅜x½	2¼x⅝x½
Average number to lb.	6	7	5
Per lb	.15	.15	.15

Nos.	Square 2	Square 4	Flat 3	Flat 4
Medium Blunt size, in	2x⅜x⅜	2½x½x½	2¼x⅜x½	2½x⅝x½
Average number to lb.	13	7	5	5
Per lb	$0.15	.15	.15	.15

Nos.	Square 2	Square 4	Flat 3	Flat 4
Long Blunt size, in	2¼x⅜x⅜	2⅝x½x½	2½x⅜x½	2⅝x⅝x½
Average number to lb	12	6	8	5
Per lb	$0.15	.15	.15	.15

Nos.	Square 2	Square 4	Flat 3	Flat 4
Extra Long Blunt size, in	2½x⅜x⅜	3x½x½	2¾x⅜x½	3x⅝x½
Average number to lb	13	5	6	4
Per lb	$0.15	.15	.15	.15

HALF SHARP OR COUNTRY PATTERN

For country roads and all-around purposes

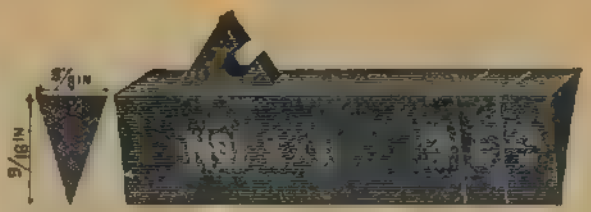
Medium, long, extra long, half sharp

Nos.	1	2	3	4	5	6	7
Length, inch, medium	1¾	2	2¼	2½	2¾	3	3¼
Width, inch	½	7/16	5/8	5/8	¾	¾	⅞
Thickness, inch	5/16	3/8	3/8	7/16	7/16	½	½
Average number to pound	15	11	9	8	6	4	3
Per lb							$0.15

Note—Long half sharp are ¼ inch longer than medium. Extra long half sharp ¼ inch longer than long half sharp.

Above, twenty-five pounds in box.

SHARP PATTERN



For ice and snow. Easy to drive. Welds perfectly. Cannot twist.

Medium, long, extra long sharp

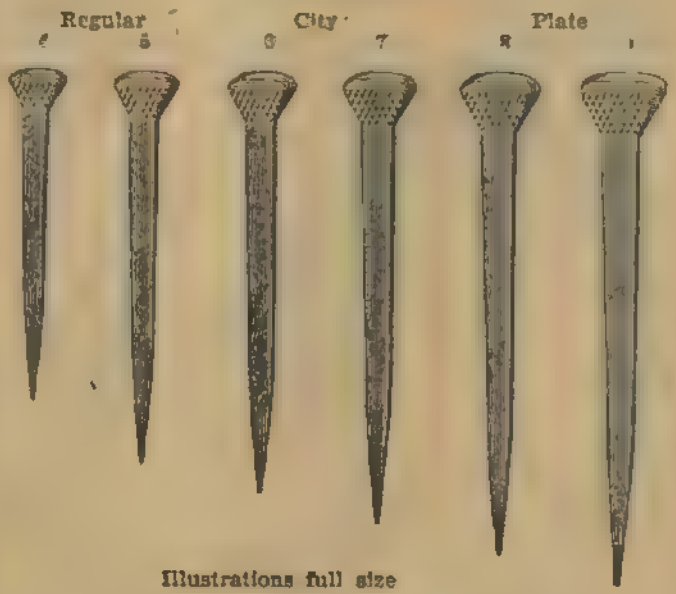
Nos.	1	2	3	4	5	6	7
Length, inch, medium	1¾	2	2¼	2½	2¾	3	3¼
Width, inch	⅜	⅜	⅝	¾	⅞	1	1
Thickness, inch	⅜	⅜	7/16	½	⅝	⅝	⅝
Average number to lb	16	12	9	7	6	5	3
Per lb							$0.16

Note—Long sharp are ¼ inch longer than medium, extra long sharp ¼ inch longer than long sharp.

Twenty-five pounds in box.

HORSESHOE NAILS

STYLE HEADS



Illustrations full size

NORTHWESTERN

Made of the best Swedish iron. Will never break under head, or split in driving. Flexible to clinch. Perfect in form and finish.

Regular City and Plate Head

Nos.	3	4	4½	5	6
Per lb	$1.50	.50	.45	.28	.25

Nos.	7	8	9	10	11
Per lb	$0.24	.23	.22	.22	.22

UNION

Regular City and Plate Head

Nos.	5	6	7	8	9	10
Per lb	$0.28	.25	.24	.23	.22	.22

SLIDING T BEVELS

DISSTON'S

Rosewood Handle
Heavy Brass Plated. Blade
Hardened and Tempered

Close Out

No. 1—Length, Ins.	10	12	14
Wt., Per Doz., Abt. Lbs.	4	5	6
Per Dozen	$6 75	7.50	8.10
	$9.30	**10.40**	**11.50**

DISSTON'S

Iron Handle, Flush Screw, Parallel Edges. Steel Blade, Hardened and Tempered

No. 2—Length, Ins.	6	8	10
Wt. Per Doz., Abt. Lbs.	5	9	7
Per Dozen	$4 85	6 20	6.75
	$13.20	**16.60**	**18.20**

Half dozen in a box

STANLEY'S LEVELS ONLY

Small. Polished Cherry Stock. Brass Top Plate. Proved Glass. Handy Grip Along Sides.

	Per Dozen
No. 102—Assorted 10 to 16 Inches. Wt., Per Doz., About 11 Lbs.	$ **$10.10**
No. 103—Assorted 18 to 24 Inches. Wt., Per Doz., About 23 Lbs.	**12.50**

One dozen in a package

STANLEY'S PLUMBS AND LEVELS

"Handy" Grip Along the Two Sides. Made of Seasoned Hardwood, with Proved Glasses. Each Glass in Both Plumb and Level is Set in Plaster and Enclosed in a Metal Case, Hinged at One End to Top Plate and Held in Place at the Other End by a Screw. A Very Delicate Adjustment is Obtained by Means of a Spiral Spring at Each End of Case. Glasses are Tested and Marked with Two Indelible Lines, Between which the Bubble Can Be Readily Seen from Above, Either Side or when Working Overhead
Polished Cherry One-piece Stock. Brass Top Plate. Side Views

Nos. 104 to 03

	Assorted Inches	Weight Per Dozen	Per Dozen
No. 104—	12 to 16	Abt. 15 Lbs.	$ **$14.50**
No. 00	18 to 24	Abt. 33 Lbs.	**19.50**
No. 0	—24 to 30	Abt. 40 Lbs.	**21.90**

NON-ADJUSTABLE

Assorted 24 to 30 Inches

BRASS LIP

	Per Dozen
No. 02—Wt., Per Doz., About 40 Lbs. Close Out	$ **$24.10**

BRASS END PLATES

No. 03—Wt., Per Doz., About 45 Lbs	$ **$35.15**

No. 104, one dozen; others, half dozen in a box.

ADJUSTABLE

Assorted, 24 to 30 Inches. Two Brass Lipped Side Views.

	Per Dozen
No. 2—Wt., Per Doz., 44 Lbs.	$ **$31.40**

Two Side Views. Polished and Lipped.

No. 3—Wt., Per Doz., 46 Lbs.	$ **$38.45**

Nos 2 to 5

Two Ornamental Brass Lipped Side Views.

	Per Dozen
No. 5—Wt., Per Doz., 48 Lbs.	$ **$50.50**

Half dozen in a box

Nos 25 to 50

on the Reverse Side of the Extra Level and Plumb Glasses. 24 to 30 Inches.

DUPLEX ADJUSTABLE

Three Glasses. Level Glass Set in Top, Plumb Glass and Second Level Glass Set in Side. These Latter Two Glasses are Set Close to One Surface, so that the Angle of Vision of Bubble is Greatly Increased. Second Level Glass can be Readily Reversed to Form a Second Plumb. Plumb Glass and Level Glass in the Side have a Special Adjustment. Brass Trimmed Opening Arch Top Plate Improved Duplex Side Views. Polished, Tipped. Assorted

	Per Dozen
No. 25—Mahogany. Brass Lipped. Wt., Per Doz., About 45 Lbs.	$ **$64.40**
No. 30—Cherry. Wt. Per Doz., About 48 Lbs.	**58.50**
No. 50—Cherry. Triple Stock. Brass Lipped. Wt., Per Doz., About 48 Lbs.	**80.70**

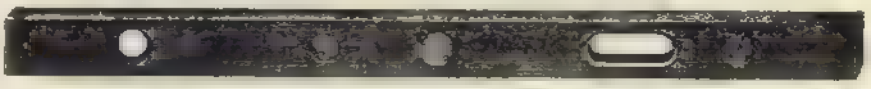
Half dozen in a box.

SAND'S MASONS' LEVELS

Made of White Pine, Finished with Three Coats of Red Weather-proof Paint. Protected Glasses.

Two Plumbs and One Top Level, Two Side Views, Bob-hole, Hand-hole, and Scribe

No. 1—42-48 x 2¼ x 1½ Ins. Weight, Each, 3 Lbs. . . Each **$3.90**



Two Plumbs and Two Levels, Bob-hole, Hand-hole and Scribe. Levels Either Edge Up.

No. 1A—Length, 42–48 Ins. Width, 2¼ Ins. Weight, Each, 3 Lbs . . . . . Each **$3.90**

Six Glass Duplicate Plumb Glasses, Both Reading Same Way Two Hand-holes, Four Plumbs, Two Levels Works Either End or Edge Up

No. 3A—Length 42–48 Ins Width 2¼ Ins Thickness, 1¼ Ins Weight Each, 3 Lbs . . Each **$5.00**

Fully Brass Bound Six-glass Duplicate Plumb Glasses, Both Reading Same Way Two Hand-holes, Four Plumbs, Two Levels. Works Either End or Edge Up

No. 7—Length, 42–48 Ins. Width, 2¾ Ins. Thickness, 1¾ Ins. Weight, Each, 4 Lbs. . . Each **$9.45**

SAND'S PLASTER LEVELS

Made of White Pine, Finished with Three Coats Red Weather-proof Paint

Has Two Levels and Two Plumbs Works Either Side Up All Four Sight Glasses or Vials are Protected by Glass Covering

No. 20—Length, 18–20 Ins Each **$2.35**

Headquarters for Bicycles and Sundries

See Separate Catalog

SAND'S ALUMINUM LEVELS

Cannot Warp, Split or Crack. Will Plumb Any End Up or Level Either Edge

Two Plumbs and Two Levels

	Each
No. 24—Length, 24 Ins. Width, 2½ Ins. Thickness, 1⅛ Ins. Weight, 2 Lbs	$8.30

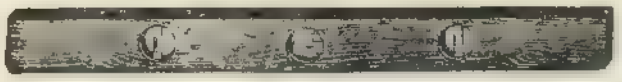
Carpenters' Six-glass. Either Plumb or Level are Always in Correct Position for Use. Duplicate Plumb Glasses, Both Reading the Same Way. Four Plumbs and Two Levels.

	Each
No. 28—Length, 28 Ins. Width, 2½ Ins. Thickness, 1¼ Ins. Weight, Each, 2¾ Lbs	$10.00
No. 30—Length, 30 Ins. Width, 2½ Ins. Thickness, 1¼ Ins. Weight, Each, 3 Lbs.	11.10

Two Plumbs and Two Levels. Has "V" Bottom. Very Convenient for Leveling Up Shafting, Piping, Etc.

	Each
No. 18V—Length, 18 Ins. Width, 2½ Ins. Thickness, 1¼ Ins. Weight, Each, 1¾ Lbs.	$7.20

SAND'S BLACK WALNUT LEVELS



Use Any End or Plumb or Either Edge for Level. Made Plain with Genuine Brass Ends and Fully Brass Bound. Four-glass. Width, 2½ Ins. 1¼ Ins. Thick. Protected Glasses.

	Each
No. 118—Length, 18–20–24 Ins.	$2.88
No. 126—Length, 26–28–30 Ins.	3.00

We Especially Solicit and Pay Particular Attention to Mail Orders

DISSTON'S PLUMBS AND LEVELS

Solid Cherry Stock Natural Finish Brass Top Plate Fastened with Brass Screws. Two Brass Lapped Side and Plumb Views Plumb and Level Glasses Proved and Set in Brass Tubing

Nos. D27 to D29

	Asst. Ins.	Wt. Per Doz.	Per Dozen	
No. D28—	18 to 24	About 34 Lbs..	30.00	$36.00
No. D29—	24 to 30	About 42 Lbs..	34.00	36.00

Nos. D31, D30

ADJUSTABLE

Assorted 18 to 24 Inches

Per Dozen

No. D31 $34.00 $44.00

Wt. Per Doz. About 46 Lbs

Assorted 24 to 30 Inches

No. D30 $38.00 $49.40

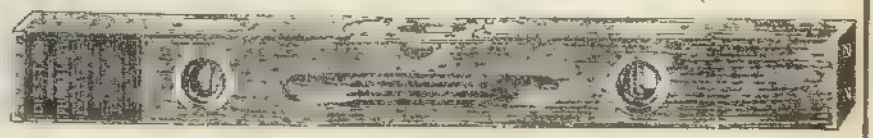
Wt., Per Doz., About 34 Lbs.

ADJUSTABLE

With Double Plumb. Assortment 26 to 30 Inches. Wt., Per Doz. About 46 Lbs.

Per Dozen

No. D30DP $47.65 $61.00



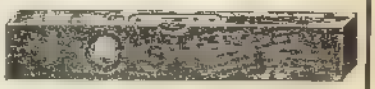
No. D30

One in a cardboard box

CHAPIN'S PLUMBS AND LEVELS

Cherry. Polished. Nickel-plated Top Plate. Length, 12 Inches. Weight, Per Dozen, About 60 Lbs.

No. 100



No. 122

Per Dozen

No. 100 Level Only ... $2.50

No. 122 Plumb and Level 4.00

One dozen in a box

MASONS' PLUMBS AND LEVELS

STANLEY'S COMBINED PLUMB RULE AND LEVEL

No. 35

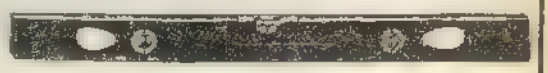
Cherry. Adjustable. Adapted Also for Plumb Bob and Line. Square Top Plate. Two Brass Lipped Side Views. Two Plumbs with Proved Glasses. Mahogany Stained. Length, 42 Inches. Stock Measures 1¼ x 3¼ Inches.

Per Dozen

No. 35 Wt., Per Doz., About 64 Lbs..... $43.95

Sixth dozen in a carton, half dozen in a box.

Mahogany Finish. Finely Polished. Length, 48 Inches. Stock Measures 1⅝ x 1⅞ Inches.



No. 45

Per Dozen

No. 45—Wt., Per Doz., About 80 Lbs..... $69.20

Half dozen in a box

DISSTON'S

No. D32

Natural Finish. Brass Top Plate Fastened with Brass Screws. Two Brass Lapped Side Views Two Brass Lapped Plumb Views. Plumb and Level Glasses Proved and Set in Brass Tubing Two Plumb Glasses Reading the Same Way

Per Dozen

No. D32 –Solid Cherry. Length, 42 Inches. Wt., Per Doz., About 60 Lbs. $43.00 $45.00

One in a cardboard box.

ADJUSTABLE

Mahogany Stained. Polished. One-Piece Stock Brass Top Plate. Two Side Views. Complete with Japanned Iron Plumb Bob. For Plumb Bob and Line

No. D89

Per Dozen

No. D89—Hardwood Length, 42 Inches. Wt., Per Doz., About 48 Lbs. $30.00 $41.00

Half dozen in a box.

POCKET LEVELS

DISSTON

Polished Rosewood. Nickel-plated Steel Top Plate. Length, 6 Inches. Weight, Per Dozen, 2 Lbs.

	Per Dozen
No. 200	$4.60

Half dozen in a box.

STANLEY HEXAGON SHAPE

Nickel Plated Steel Case. Proved Glasses.

No. 31—Length, Ins. . . .	2½	3	3½	4
Wt., Per Doz., Lbs.	¾	1	1½	1½
Per Dozen .	$7.05	8.40	10.50	12.70

Half dozen in a box.

STANLEY

Nos. 40, 41

Can be Attached to Any Straight Edge. Japanned Iron. Steel Set Screws. Wt., Per Doz., 1¼ Lbs. Japanned Top Plate. Length, 3½ Inches.

	Per Dozen
No. 40	$2.65

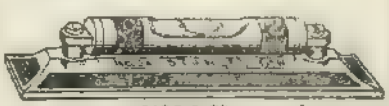
Brass Top Plate.

	Per Dozen
No. 41 -Length 3½ Inches	3.40

One dozen in a box.

ECLIPSE LEVELS

STANLEY



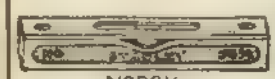
No. 34-6"

Furnished with Ground Glasses. Glass is Fitted in Metal Case. Plaster Used as Necessary to Fill Ends of Case. Outer Shell, Termed "Ecapse Case" is Fitted Over This Case, and when Level is Not in Use This Shell Can be Turned so as to Completely Protect Glass from Damage. Case is Screwed on to a Substantial Metal Base. Bottoms Nickel Plated.

No. 34T—Length, Ins.	4	6
Wt., Each, Lbs....	¾	1
Each.....	$1.75	2.30

One in a box.

Glass Set in Plaster Inside Iron Case. Iron Top is Entirely Separate from Glass. Nickel Plated. Two Side Views. Proved Glasses.



No. 38½

Length, 6 Inches.

	Per Dozen
No. 39½. .. .	$14.35

Weight, per dozen, about 7 lbs.
Length, 4 Inches

	Per Dozen
No. 38½ . . .	11.85

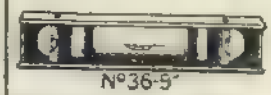
Weight, per dozen, about 3½ lbs.

Half dozen in a box.

METALLIC PLUMBS AND LEVELS

STANLEY

Plumb and Level Glasses are Set in a Metal Case. Bottom of Each Case Machined to Fit Accurately on Supports Cast in Frame of Level. Case is Held Firmly on Supports by Means of Cone Centres which Engage Each End of it. Centre Lines of Case and Cones are Eccentric. Metal Case is Readily Removed from Frame by Slackening Cone Centers. Levels Have Grooved Bottoms. One Level Glass and Two Thumb Glasses.



No. 36-5"

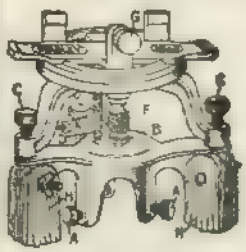
Japanned Cast Iron Frame. Nickel-plated Edges. Adjustable. Proved Glasses.

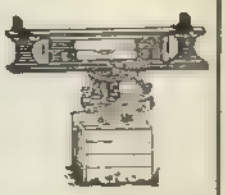
No. 36G—Length Ins. .	6	9	12	18	24
Wt., Each Abt. Lbs.	¾	1¼	1¾	3	4¼
Each.....	$2.80	3.30	3.85	4.70	5.25

Nickel Plated, Cast Iron Frame. Ground Glasses. Nickel-plated, Adjustable Steel Eclipse Cases.

No. 37G—Length Ins	18	24
Wt., Each About Lbs.	3	4¼
Each	$6.40	7.40

STANLEY IMPROVED LEVELING STANDS





For Determining Levels from a Given Point to One at a Distance. Can be Attached to a Stake and Adjusted to a Horizontal Position Even Though Stake may not be Exactly Perpendicular. Nickel-plated. 4½ Inches Long. 3½ Inches Wide.

		Each
No. 38—Wt., 1½ Lbs. (For Metal Level)...	$2.00	3.30
No. 48—Wt., 1½ Lbs (For Wood Level)....	2.00	3.30
No. 39—Wt., 3½ Lbs. (With Metal Level and Level Sights).	4.50	5.10

One in a box.

CUT GLASS

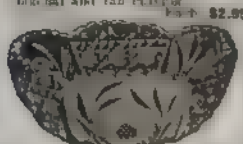
HEAVY BLANKS DEEP CUT

Genuine hand cut, hand polished. The latest, most attractive designs and shapes. Patterns shown here cannot be duplicated. They are unexcelled as gifts for any occasion. It will pay you literally thousands from this showing for the big holiday demand, for our values are without equal

DEEP ROUND SALAD OR FRUIT BOWLS

J8087 [illegible] whirling stars [illegible] floral and fan cutting [illegible] Each $2.95

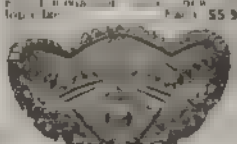
Panel Cut [illegible] Each, $6.75 8.00



Floral and Jewel Cutting [illegible] Each $3.25 4.95

J8057 [illegible] Each $5.95

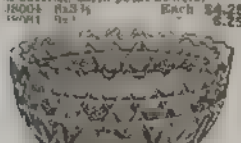
J8044 [illegible] $3.65



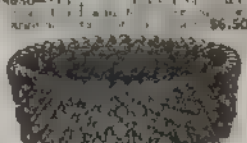
Deep Miter Cutting—8 clusters small hob stars, heavy miter cut [illegible] floral cut hob stars. Each $6.50 8.75

Flower Bottom Basket and diagonal cutting, satin petal flowers. J8004 6x3½ Each $4.25 6.25

J8050—[illegible] $6.50



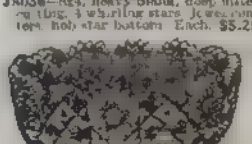
Deep Miter and Basket Cut Border [illegible] satin ribbed flowers, bright cut sprays. J8002 [illegible] Each, $4.25 6.50



J8078—8x3½ extra heavy blank, allover deep miter cutting, brilliant effect Each $6.95

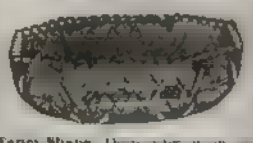
J8056—8x4, heavy blank, deep miter cutting, 3 whirling stars [illegible] hob star bottom Each, $5.25

J8082—8x [illegible] Each $7.85

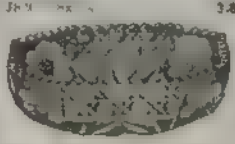


J8083—8x [illegible] Each $9.50

NUT OR SALAD BOWLS



Fancy Shape [illegible] J8204—7x3 Each $3.10 3.85



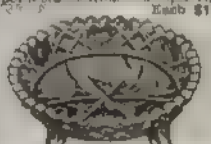
Fancy Shape Miter Cutting [illegible] Each $3.25 4.25

J8072—11x7½x3½ brilliant heavy blank, ribbed petal floral [illegible] centers, brilliant [illegible] and sweet hand hob [illegible] $5.25

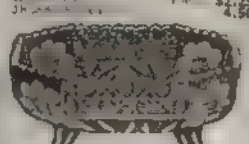
J8060 [illegible] Each, $6.00

FOOTED FRUIT OR NUT DISHES

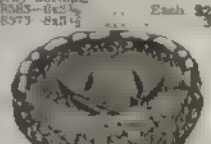
J8373 [illegible] Each $1.85



Jewel Band [illegible] $2.25 4.50



Hexagon Bottom [illegible] Each $2.65 3.95



Fancy Shape [illegible] $3.25 4.95

ROUND NAPPIES

Chinese Cutting [illegible] petal flowers, brilliant leaves, 4 polish star center J8388 [illegible] Each $1.30 1.65

Whirling Star [illegible] J8084 J8 [illegible] Each $1.35 1.75

J8180 cut [illegible] fine crystal blank, deep miter band, 9 bright floral sprays with ribbed petals, bright centers Each $1.95

J8185 [illegible] $2.50

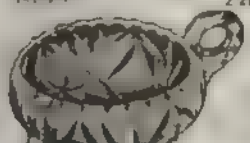
HANDLED NAPPIES

Floral Sprays [illegible] Each $1.90 2.00

Extra Heavy Crystal Blank—Deep [illegible] Each $2.10 2.25

J8323 [illegible] $2.25

J8268 [illegible] shape square ends, [illegible] tore, polished leaves, jewel and basket cut panels [illegible] Each, $2.35



J8419—Footed, 6x3½ heavy crystal [illegible] centers, ribbed satin edges Each $1.85

J8316—6 in., heavy crystal [illegible] Each $3.95

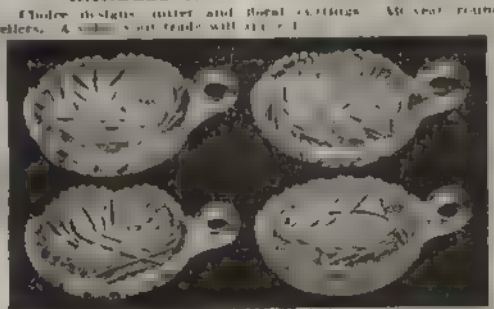
HIGH QUALITY DEEP ROUND SALAD BOWL

Deep sharp cut, highly polished crystal blanks, high grade finely finished bowls at popular prices

Deep Miter [illegible] Each $5.75 8.95

HANDLED NAPPY ASSORTMENT

Under delights, miter and floral cuttings. All clear round shapes. A [illegible] made with [illegible]



J8332—4 styles, 6 in. 3 with bright miter cutting, star and ribbed petal 3 very floral centers. 1 bright miter cutting, bright cut [illegible] Assrtd 4 in pkg. Total for asst. 12 in pkg. Each $1.85

POPULAR NAPPY DISH

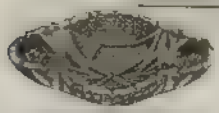
Except in the attractive pattern always in big demand

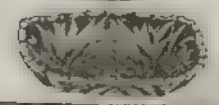
Whirling Stars, alternating hob and fine cut fan cutting

J8087—6 in. Each $1.50

J8084—6 " 1.65

OLIVE OR BONBON DISHES

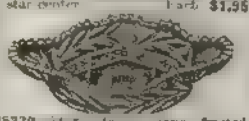




STAR VALUE

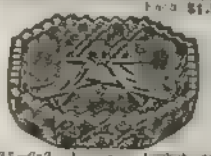
J8336—3 fancy shapes, every other one fan and jewel cutting, bright cut floral sprays, ribbed satin petals, bright centers. Assrd. 3 in pkg. Each, **$1.50** (Total $4.50)

J8352—6x4½ deep sleeved miter cutting, large bright cut star center. Each **$1.95**



J8330—6½x4½ fan shape frosted floral blossoms, polished leaves, satin rayed flower sprays, bright cut band, gem and basket cut. Each **$1.95**

J8383—8½x4½, 2 large whirling stars, diagonal sunburst sprays. Each **$1.50**



J8335—6x2 [illegible] basket and jewel cutting, frosted flowers with brilliant cut centers. Each **$2.10**

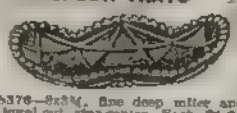
J8381—4½x6½, bright miter cut band, 2 large whirling stars. Each **$1.75**

J8334—[illegible] miter and jewel cutting, 4 floral sprays, satin petals, bright centers. Each **$2.10**

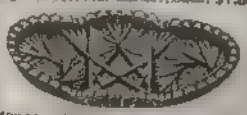
"GETTING A PROFIT" Is only one of the interesting chapters in our new booklet "Will You Fight?" Write for a copy IT IS FREE

J8369—5½x6½ hexagon satin floral sprays, small brilliant hob star bottom. Each **$2.25**

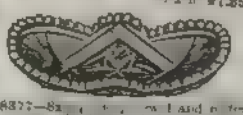
SPOON TRAYS



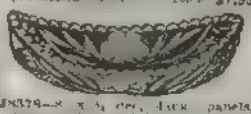
J8376—8x3¾, fine deep miter and jewel cut, star center. Each, **$1.85**



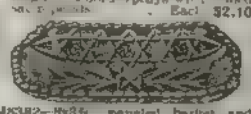
J8360—7x4 [illegible] brilliant fan cutting, basket [illegible] Each **$1.85**



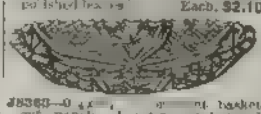
J8377—8x4 [illegible] and miter cutting, whirling hob stars [illegible] Each **$1.95**



J8379—8x3½ oval, dark panels, deep miter and jewel cutting, bright cut floral sprays with gold satin panels. Each **$2.10**



J8382—8x3¾, paneled basket and jewel cut sides, 2 frosted flowers, polished leaves. Each. **$2.10**



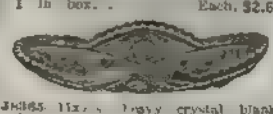
J8383—9 [illegible] basket cut panels, 4 satin petal floral sprays, bright centers Each. **$2.65**

CELERY DISHES

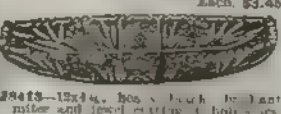
J8364—11x4½, 2 whirling stars, brilliant rays, fan and basket center. Each **$2.25**

J8403—10¾x4½, 4 satin floral sprays, brilliant centers, polished leaves, fine bottom ...Each, **$2.50**

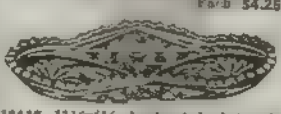
J8411—10¾x4½, 2 whirling stars, brilliant rays, fan and basket cut bottom. 1 in box. Each, **$2.65**



J8365—11x4, heavy crystal blank deep hob star, miter and jewel cutting. Each. **$3.45**



J8413—13x4½, bold [illegible] brilliant rays, fine miter and jewel cutting, 4 satin petal flowers, bright centers Each **$4.25**



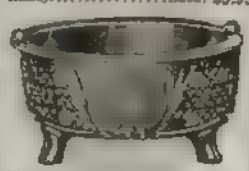
J8416—11½x4½, brilliant basket cut band, 2 floral sprays, bright cut petals and satin finish. Each. **$4.75**

FERN DISHES

With non-tarnishable polished removable lining

J8725—8x4, diagonal basket design panels, satin petals brilliant star center, star bottom, removable metal lining Each **$3.85**

J8306—8x4½, deep allover miter cut band, bright cut floral sprays satin ribbed petals, removable metal lining.....Each, **$3.95**

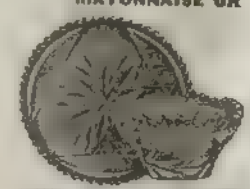


J8309—8x4½, large size blank deep allover basket and miter panels, bright cut spray with 2 large satin rayed cut petal flowers, jewel centers, star cut bottom, removable metal lining ..... Each, **$4.95**

FOOTED ROSE BOWL

J8088—8x7½, allover cutting, diagonal, jewel and basket panels, 3 satin petal floral clusters jewel centers, polished leaves, floral medallion bottoms. Each **$7.25**

MAYONNAISE OR WHIPPED CREAM SETS—Heavy Deep Cut Blanks

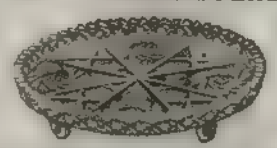


J8433, 2 pcs., bowl 6x3½, plate 7 bright jewel and miter cutting satin ribbed petal floral sprays bright jewel centers. SET 2 pcs.) **$3.50**

J8434, [illegible] jewel cut, plate with large whirling stars. SET (2 pcs **$3.65**

J8432—2 pcs., bowl 5x3 plate 6½, 4 brilliant basket and miter cut panels, 4 satin petals, brilliant centers SET 2 pcs.), **$4.75**

FOOTED SANDWICH OR CAKE PLATE



J8201—8½x1½, footed new style, 4 whirling stars, satin rays, alternating with brilliant hob star diagonal panels, raised jewel cut scalloped edge. Each. **$5.95**

RELISH DISHES

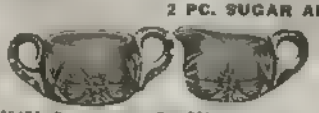
J8268 6x9, brilliant diagonal, fan and miter cutting, 2 large whirling stars. Each **$1.95**

J8404—6x8½, daisy sprays, satin petals brilliant centers, hob and diagonal cut bottom. Each **$2.25**

J8260—8x1½, fancy shape, square ends, combination floral and easel basket cut panels, brilliant leaves, 2 handles. Each, **$2.50**

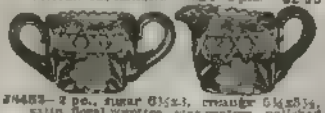
Floral Design—Brilliant jewel and basket cutting, 6 satin petal flowers, bright cut centers. Jewel 7 in. Each **$4.65** Jewel 5 in. **4.95**

2 PC. SUGAR AND CREAM SETS

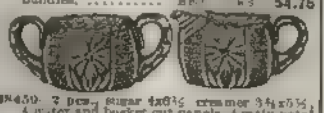


J8474, 2 pcs., sugar 6 [illegible]x3½, creamer 5½x [illegible], bright miter cutting, flower rosette with basket [illegible] panels, bright hob star bottom, cut handles SET 2 pcs. **$2.95**

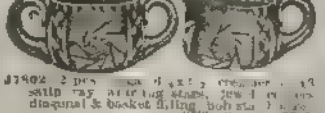
J8475, 2 pcs., sugar 4½x3½, creamer 5½x3½, heavy crystal blank, bright cut fan and jewel cuttings, 2 large hob stars cut handles, ... SET 2 pcs **$4.75**



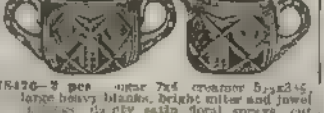
J8453—2 pcs., sugar 6½x3, creamer 6½x3½, satin floral rosettes, star centers, polished leaves, miter and basket cut top, star bottom, cut handles SET (2 pcs.), **$2.95**



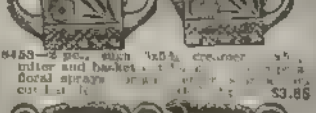
J8450—2 pcs., sugar 4x6½, creamer 3½x5½, 4 miter and basket cut panels, 4 satin petal flowers, bright centers, cut handles, SET (2 pcs.), **$5.25**



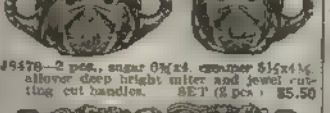
J7402, 2 pcs., sugar 5½x3½, creamer [illegible], satin ray whirling stars, jewel cut, diagonal & basket filling, hob star bottom SET (2 pc **$2.95**



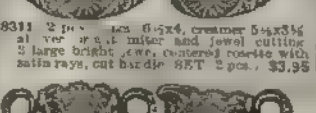
J8476—2 pcs., sugar 7x4, creamer 5½x3½, large heavy blanks, bright miter and jewel [illegible] rayed satin floral sprays, cut handles SET (2 pcs.) **$5.25**



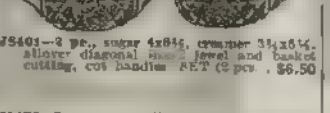
J8455—2 pcs., sugar [illegible]x5½, creamer [illegible], miter and basket [illegible] floral sprays [illegible] cut handles SET (2 pcs.) **$3.85**



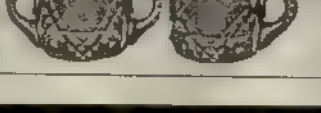
J8478—2 pcs., sugar 6½x4, creamer 5½x4½, allover deep bright miter and jewel cutting cut handles. SET (2 pcs.) **$5.50**



J8311, 2 pcs., sugar 6½x4, creamer 5½x3½, allover bright miter and jewel cutting, 3 large bright jewels, centered rosette with satin rays, cut handles SET 2 pcs., **$3.95**

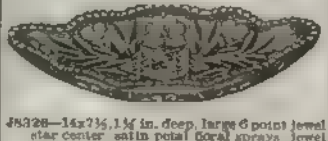


J8401—2 pc., sugar 4x6½, creamer 3½x6½, allover diagonal miter jewel and basket cutting, cut handles SET (2 pcs. **$6.50**



J8479—2 pcs., sugar 6½x4, creamer 5½x3½, allover diagonal miter jewel and basket cutting, cut handles. SET (2 pcs.) **$7.25**

ICE CREAM, SALAD OR CAKE TRAY



J8328—14x7½, 1½ in. deep, large 6 point jewel star center satin petal floral sprays jewel centers, polished leaves..... Each **$4.95**

COVERED BUTTER DISH

J8338—8 in. plate, 8¼ deep jewel, hob and basket cut band, 3 floral sprays, satin petals, polished leaves, cut knob top Each **$5.50**

ICE TUB

J8232—6½x5½ daisy and sunflower sprays, satin petals bright centers cut and hob star band Each **$5.25**

HEAVY CUT GLASS WATER SETS

J8441—7 pcs., 3½ pt. jug, 10¾ in. high, allover bright floral spray, large satin daisies, jewel centers, bright beaded top cut lip and handle, 6 tumblers to match. SET ... $12.50

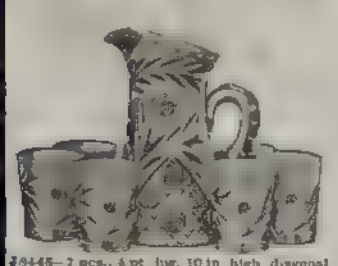
J8442—7 pcs., 4 pt. jug, 10 in. high, deep miter and fan cutting, bright foliage sprays with big stars, beaded top cut lip and handle, star cut bottom, 6 tumblers to match. SET (7 pcs.) ... $12.75

J8443—7 pcs., 4 pt. jug 10¾ in. high, clever deep miter, jewel and fan cutting, beaded top, cut lip and handle, star cut bottom, 6 tumblers to match. SET (7 pcs.) ... $13.75

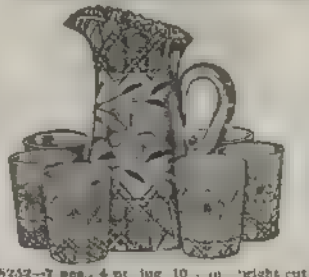
FOOTED COMPORTS

J8220—8x7, fancy shape, square corners, bright center blossoms, polished leaves, alternating jewel and basket cut design, cut stem, star cut ... Pair $3.25

J8421—... deep miter and ... bright ... foliage sprays ... satin ... jewel ... Each $3.95



J8445—7 pcs., 4 pt. jug, 10 in. high, diagonal basket miter and jewel cut patterns, bright foliage spray, 3 large satin rib reeds, jewel centers, notched top, cut lip and handle, star cut bottom, 6 tumblers to ... SET (7 pcs.) ... $14.50



J8252—7 pcs., 4 pt. jug 10 ... bright cut floral design, flower with ... finish petals and bright centers, bright baskets cut border top and bottom, star bottom, six tumblers to match. SET (7 pcs.) ... $14.50

J8444—7 pcs., 4 pt. jug 10 in. high, 2 bright cut miter and star bands, large floral spray with satin petal centers, jewel centers, star cut bottom, beaded top, cut lip and handle, 6 tumblers to match. SET (7 pcs.) ... $15.00

J8266 ...

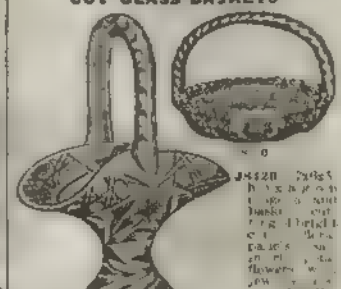
Allover Cutting—Small bellflot ... jewel cutting, satin floral rosettes with bri... bright ... spray ... bottom.
J8 ... Each, $3.95
J8 ... 4.95
J8248—7x8½ ... 6.75
J8025—6x7¼ fine feed blank ... bright ... foliage sprays, 3 satin petal flowers with ... jewel centers, cut edge and stem, star cut bottom ... Each $4.25

J8244—8 pc., 4 pt. jug, 11 in., diagonal basket miter and jewel cut panels, bright ... bright ... with ... six 9 oz. tumblers to match, 14 in. bevel plate mirror. SET (8 pcs.) ... $17.50

J8447—8 pcs., 4 pt. jug, 10½ in. high, basket and miter cut band, bright ... floral spray with 3 large satin rib petal ... jewel centers, star cut bottom, notched top, cut lip and ... handles to match, 13 in. fine ... silver plated beveled mirror plateau. SET (8 pcs.) ... $19.25

J8448—8 pcs., 4 pt. jug, 10½ in., miter and ... cut bands, bright cut spray, large floral petal ... jewel centers, cut ... bottom, ... foot 4 silver plated beveled mirror plateau. SET (8 pcs.) ... $20.50

CUT GLASS BASKETS



J8420 ... basket ... bright ... jewel ... flowers ... rope handle. Each $2.95

Bonnet Shape Basket, Millar cut ... design, ... sprays, satin petals, ... bright ... cut handles.
... Each $6.25
J8305—10x11 ... 8.50

8 PC. WATER SET WITH MAHOGANY TRAY

J8446—8 pcs., 3½ pt. jug 7¾ in. high, allover bright cut spray, 5 satin petal centers, jewel centers, star cut bottom, beaded edge, cut lip and handles, 6 tumblers to match, 14 in. round mahogany finish tray, plain dust cover and glass ... SET (8 pcs.) ... $17.50

PLATEAUS—Heavy French Plate

A value your trade will appre... plate.

Silver plated, plain and embossed rim, footed, metal back, heavy ... glass ... plate ... cut ... J8256—10 in. ... Each, $3.50
J8257—12 ... 4.95
J8258—14 ... 6.35

ELECTRIC BOUDOIR

J8164—Ht. 11¾ in., satin petals, floral spray jewel centers, trim with bead, fringe, 6 ft. silk cord with plug. Each, $6.75

J8165—Ht. 11½ in., double ... floral sprays ... petals ... plug complete with cord. Each $10.50

VASES—Heavy Deep Cut Blanks

Bulb Top—Whirling star, diagonal basket and fan cut star bottom
... 8 in. Each $2.95
... 10 " 4.25
... 12 " ...
... 14 Temp. Cut

J8526—3 ... Blanks with ... star ... Blanks with ... star ... bright centers, large ... jewel and basket ... bright ... bottom. Assted 3 in pkg.
(Total) $16.05) Each $5.35

J8507—12 ... 9 wide miter and jewel cut ... bright floral spray, satin petals ... jewel ... star bottom ... Pair $6.25

J8508—12 ... saree ... blank ... bright ... basket ... feston ... bright ... spray with ... jewel ... daisy ... cut star bottom. Each $6.75

Bulb Top—Miter and jewel cut bands, bright floral panels, and ... cut and ... flowers with bright centers, star ...
... 10 in. Each $8.50
... 12 " 10.50
J8524—14 ... 15.75

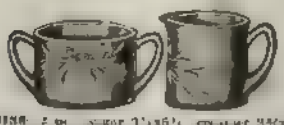
J8509—12 in., 8 deep miter and basket cut bands, satin finish dainty floral wreaths between ... bottom. Each $8.50

J8518—9 in. heavy blank, ... cut ... basket ... fine ... cane ... 2 large ... bright ... floral ... satin flowers with ... star bottom. Each $9.25

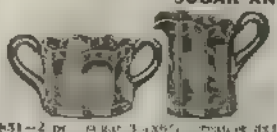
CUT GLASS LIGHT BLANKS

FINEST QUALITY. A line on which you can make some very handsome profits. See the big variety of new items and new cuttings. Every one a seller—the kind that make splendid gift items—wedding, birthday, holiday and anniversary. Their popularity and our low prices make them exceptionally attractive.

SUGAR AND CREAM SETS



J8188—2 pc., sugar 3"x3½", creamer 2¾x3¼, satin finish floral sprays, ribbed edge, star bottom. SET (2 pcs.), 88c



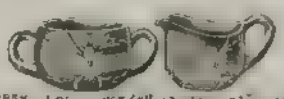
J7851—2 pc., sugar 3¼x3½", creamer 3x3¼", hexagon shape, satin finish floral sprays, satin ribbed edge, star bottom. SET (2 pcs.), 95c

J7833—2 pc., optic, sugar 3¾x3½", creamer 3¾x3", satin floral spray, ribbed beaded edge. SET (2 pcs.), $1.20

J8197—2 pc., sugar 3¼x3¼", creamer 3¼x3", hexagon shape, satin finish floral sprays, ribbed band, star cut bottom. SET (2 pcs.), $1.25

J7855—2 pcs., sugar 3¼x3½", creamer 2¾x3", hexagon shape, satin ribbed bowl, cut and floral spray. SET (2 pcs.), $1.35

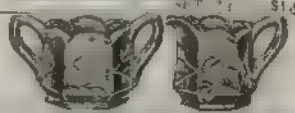
J8188—2 pc., sugar 3¼x3½", creamer 3¼x3¼", hexagon shape, satin finish floral sprays with fern, cut star bottom. SET (2 pcs.), $1.45



J7853—2 pc., sugar 4x3¾", creamer 3½", satin ribbed band and floral sprays, polished bottoms, star cut. SET (2 pcs.), $1.65

J7984—2 pc., sugar 3¾", creamer 3¾", plain and floral sprays, frosted glass, narrow ribbed handle. SET (2 pcs.), $1.65

J7782—2 pcs., sugar 3½x3½", creamer 3¾x3½", polished ribbed handles, satin band with conventional rose spray. SET (2 pcs.), $1.75

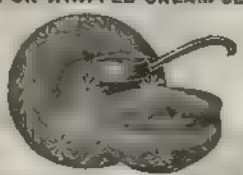


J8143—2 pc., sugar 3½x3½", creamer 2¾x3½", heavy grape cut satin cut in DR floral spray, satin finish, star cut bottom. SET (2 pcs.), $1.75

MAYONNAISE OR WHIPPED CREAM SETS

J7880—3 pc., 4¾" plate, 2¾" bowl, 7" ladle, satin ribbed floral spray, polished bottoms, satin ribbed ladle. SET (3 pcs.), $1.35

J8029—2 pc., 6½" fluted optic bowl, satin floral pattern, ladle with satin finish. SET (2 pcs.), $1.45



J7881—3 pc., 4¾" bowl, 6" plate, satin floral spray polished bottoms, satin spray ladle. SET (3 pcs.), $1.65

J7882—3 pc., 4¾" bowl, 6" plate, satin floral spray, polished bottoms, star cut ladle. SET (3 pcs.), $1.75

J7884—3 pc., 4¾" bowl, 6" plate, satin finish, pink rose design with open cut edge, floral spray, star cut bottom, satin flower ladle. SET (3 pcs.), $1.85

A630—3 pc., compote 6½x3", plate 6", ladle, satin finish floral and ribbed band design, star cut bottom. SET (3 pcs.), $1.85

J7885—3 pc., 6½" bowl, 6" plate, satin finish rose knot and floral spray design, polished bottoms, satin flower ladle. SET (3 pcs.), $1.95

J7886—3 pc., 7x3" bowl, 6" plate, satin finish ribbed band, floral spray, polished bottoms, satin star ladle. SET (3 pcs.), $1.95

J8033—3 pc., compote 6½x3", plate 6", ladle, satin finish, brushed floral wreath and ribbed band. SET (3 pcs.), $1.95

J7887—3 pc., 7" fluted bowl, 6" plate, satin finish floral spray, polished bottoms, star cut. SET (3 pcs.), $2.10

MARMALADE SETS

J8192—3 pc., jar 4½", plate 5½", satin cut floral and fancy cut design, polished bottoms, glass cover, spoon. SET (3 pcs.), $1.10

J8194—3 pc., jar 4½", plate 5½", satin finish floral sprays, star cut polished bottoms, glass cover, spoon. SET (3 pcs.), $1.10

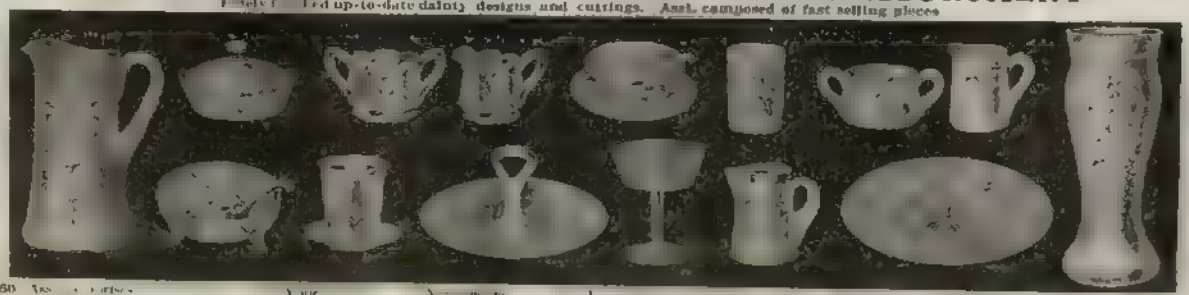
J7950—3 pc., jar 4½", plate 5½", satin cut floral sprays, star cut bottom, silver plated brass cover, spoon. SET (3 pcs.), $1.50

J7841—3 pc., jar 5", plate 6", satin cut floral design, cut bottom, silver plated brass cover with star, spoon. SET (3 pcs.), $1.50

J8195—2 pc., jar 4½", plate 5", satin cut floral and fancy cut design, polished bottoms, star cut bottom, glass cover. SET (2 pcs.), $1.75

POPULAR PRICED LIGHT BLANK CUT GLASS ASSORTMENT

Especially selected up-to-date dainty designs and cuttings. Asst. composed of fast selling pieces



J7960 Assortment consists of:

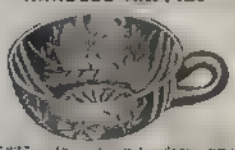
Qty. Used	Total	Price	Total
6	$1.80	$.45	$2.70
2	.75	.30	.60
2	.80	.40	1.00
2	1.75	.85	3.40
4	1.75	.80	4.00
3	1.10	.70	2.10
3	1.10	.70	2.10
3	1.35	.55	3.00
3	1.35	.55	3.00
3	1.35	.55	3.75

Qty.	Total	Item
$2.00	$.80	Vase
2.00	.85	Sugar
2.00	.80	Cream
2.00	1.75	Celery or relish tray
2.00	1.40	Footed jelly
1.00	.85	Comport
1.00	1.75	4½ in. comports
1.00	1.00	Syrup pitcher
	$16.50	
	$16.10	

TOTAL FOR ASST. (66 pcs.) in bbl. ready for shipment. No extra charge made for bbl. **$55.50**

Value **$39.60**

HANDLED NAPPIES



...827 ...in. ... petal floral spray, ribbed panels, cut bottom, star ... Ea. h 70c

...8124 ... ribbed petal floral design, star cut polished bottom, ribbed and beaded edge Each 80c

Floral Sprays—Satin rib petal floral design, star cut polished bottom with satin rays.
J8173—5 in. Each 85c
J8174—6 in. Temp. Out

Satin Petal Floral Design ribbed ... 5 in. Each $0.85
... 6 in. 1.10

J8138 ... satin petal fuchsia ... cut bottom, star center. Each $1.00

FOOTED NAPPIES

J8147—6 in., satin finish floral sprays, star cut bottom. ... Each $1.35

J8149—7½ in. optic, bowknot and floral design, flower cut bottom. Each $1.65

SPOON TRAYS

J8045—7¼x3¼, fancy shape, satin finish bowknot and floral ... star cut polished ... Each 95c

J8051 ... shape satin finish sprays in rib and panels. Each $1.15

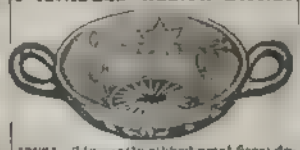
CELERY TRAYS

J8184—10½x4¾, satin ribbed floral spray polished bottom, star center, satin rays. Each $1.20

J8182—10 x5, satin finish floral sprays beaded edge. Temp. Out

J8140 ... satin finish floral sprays, star cut bottom, ... Each $1.55

2 HANDLED RELISH DISHES



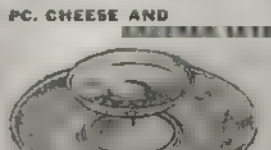
J7831—8 in., satin ribbed petal floral design, cut bottom, star center. Each $1.05

J7838—8 in., satin finish, ribbed petal floral design, beaded edge, cut bottom, star center. Each, $1.35

J8154—8 in., satin finish floral pattern, star cut polished bottom, satin rays. Each $1.35

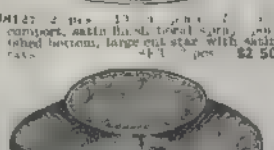
J8137 ... satin finish bowknot and floral design, star cut polished bottom with satin rays ... Each $2.65

2 PC. CHEESE AND ...



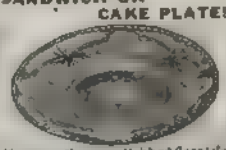
J7903—2 pcs., 9½ in. plate, satin finish beaded border and floral spray, 6½x4 comport with beaded border. SET (2 pcs.) $2.25

J8142—2 pcs., 13 ... comport, satin finish floral spray, ribbed bases, large cut star with satin rays ... pcs. $2.50

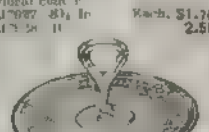


J7838—2 pcs., 9¼ in. plate, footed cheese dish 5½x2¾, allover cutting design, sprays, satin petals and leaves, ring frosted base in lattice effect, large star center with frosted rays. SET (2 pcs.), $2.85

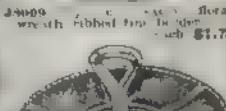
SANDWICH OR CAKE PLATES



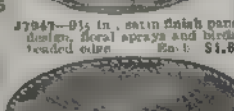
Cosmos Spray—Ribbed floral side edge and border cut bottom, floral cent ...
J7937 8½ in. Each, $1.70
J7938 10 ... 2.50



J8009 ... floral wreath, ribbed top ... Each $1.75

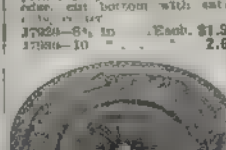


J7947—9½ in., satin finish panel design, floral sprays and birds, beaded edge. Each $1.85

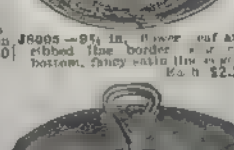


Satin Floral Wreath—Ribbed ... with fan cutting, star ... bottom.
... 8 in. Each $1.85
... 10 ... Temp. Out

Satin Ribbed Border—Satin petals in panel effect, beaded edge, cut bottom with satin ... rays.
J7929—8½ in. Each, $1.95
J7930—10 ... 2.65



J8005—9½ in., flower cut and ribbed line border ... cut bottom, fancy satin line ... Each $2.20

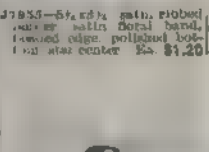


J8010—10 in., satin finish bowknot and floral design with satin rays. Each $2.25

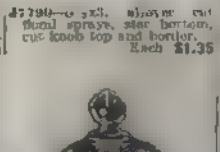
BUTTER DISHES

J7955—6½x5¾, satin, ribbed ... satin floral band, fancy edge, polished bottom, star center. Ea. $1.20

J7790—6 x3, allover cut floral sprays, star bottom, cut knob top and border. Each $1.35



J8141 ... x3½, satin finish floral sprays, star cut bottom, satin rays Each $1.55



J7937 ... fine optic ... satin floral band, fan cut bottom. Each $2.25

GOBLETS AND FOOTED SHERBETS

Lead Blown Crystal—Fine quality ... crystal, optic ... floral spray, ½ doz. in carton.
J8134—4½ oz. sherbet ... Doz. $5.00
J8135—5½ ... goblet ... 5.50

Butterfly Cut—Dainty cut butterfly with floral sprays, frosted leaves, fine quality blown blanks. ½ doz. in carton. Doz.
J8136 Sherbet, ht. 3½ in. } $7.50
J8137 Goblet, ... }
J8138 Sherbet ...

Blown Crystal—Fine quality, blown crystal, optic blanks, ribbed satin ... border, ... floral spray, ½ doz. in carton.
J8144—3½ oz. sherbet ... } Doz.
J8133—5½ oz. tall sherbet ... } $8.75
J8145 ... goblet ...

Finest Quality Blown Crystal—Optic blanks, satin ribbed panels, design with dainty floral and berry spray, ½ doz. in box.
J7906—4 in. sherbet ... } Doz.
J7907—5½ in. sherbet ... } $11.50
J7908—7 in. goblet ...

SYRUP PITCHERS—Without Plate

J7870—Ht. 4½ in., satin ribbed band, satin floral spray with polished centers, polished ... spring cover. Each, $1.50

J8105—Ht. 4½ in., satin finish fuchsia spray, polished nickel ... Each, $1.75

J8103—Ht. 4½ in., satin floral spray. ... Each, $1.86

GLASS COVERED SYRUP PITCHERS—With Plate

J7879 2 pc. ... 4½ in. pitcher, glass ... in. plate, satin floral spray ... leaf plate, polished bottom ... SET (2 pcs.), $1.45

J7874 2 pc., 4½ in. pitcher, 5 in. plate, satin ribbed flowers, bright centers, satin lined edge, plate with polished bottom, star center. SET (2 pcs.), $1.86

J8102 2 pc., pitcher 5 in., glass cover, 5 in. plate, satin finish rose spray ... center star cut polished bottom ... SET (2 pcs.), $1.75

SALT AND PEPPER SETS

J8283 3 ... cut satin ... aluminum ... tops ... ers in box. ... $1.95

J8273 ... fluted ... ivy resin filled ... nickel ... tops ... 75c

J8274—3½ in. fluted shape polished heavy crystal blank, satin floral festoon sterling silver screw top. 1 pr. in box. Pr $1.00

J8278—3½ in. polished heavy crystal blank satin cut ribbed bands and floral wreath, silver plated screw top. 1 pr. in box. Pr $1.10

J8270 ... in. polished crystal blank tapering shape, satin ribbed bands with floral wreath, pearl center, sterling ... 1 pr. in box. Pr $1.40

SALT, PEPPER AND TOOTHPICK SET

J8219—3 pcs., 3½ in. shakers, 2½ in. footed tooth pick, satin finish ribbed floral cutting. 1 set in box. SET (3 pcs.) $1.50

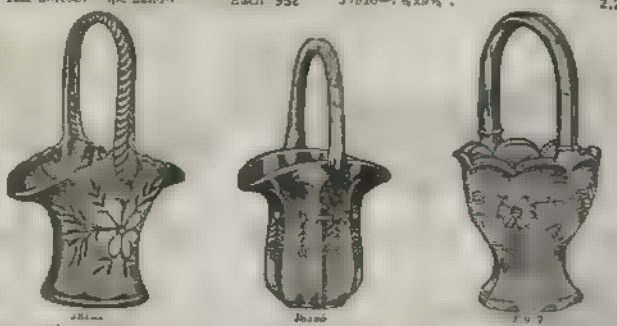
FANCY CUT GLASS BASKETS—Light Blanks

Bonnet Shape—Optic crystal, cubist petal floral sprays, star bottom, rope handle.
J7010—4¼x8¾ . . . . . Each, $0.50
J7011—6x9 . . . . . 1.00

J7012—6¼x9¾, bonnet shape, bright and satin floral sprays, satin-edged bright petals, star bottom, rope handle. . . . . Each, 95c

J7015—8x9, hexagon blank, satin bowknot and floral spray . . . . . Each, $1.10

Bonnet Shape—Optic blank, satin ribbed daisy design, rope handle, star bottom.
J7015—8x9 . . . . . Each, $1.65
J7016—7¼x9¾ 2.25



Bonnet Shape—Optic crystal, large satin cut floral sprays, star bottom, rope handle.
J8121—6x9¾ . . . . . Each, $1.25
J8122—7¾x11¾ . . . . . Temp. Cut
J8123—9x13 . . . . . Each, $2.95

J8124—7x11½, bonnet shape, ribbed satin band, satin floral pendants . . . . . Each, $1.95

J7917—6½x13½, large octagon blank, satin ribbed band and floral spray, bright centered flowers . . . . . Each, $3.65

WATER, LEMONADE OR ICED TEA SETS

J7960—7 pc., 2 designs, 4 pt. 10 in. jugs, six 3½ in. tumblers to match, allover satin finish floral sprays. Jugs with satin notched tops. Assd. 4 sets in box
(Total $11.00) SET (7 pcs.), $2.75

J8028—7 pcs., 4 pt. cord. jug, 10 in., six tumblers, 2 ribbed satin bands, satin finish floral sprays . . . . . SET 7 pcs. $4.95

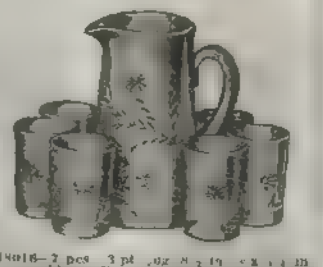
J7961—7 pc., 4 pt. Optic jug, six 5½ in. tumblers, heavy satin floral sprays . . . . . SET (7 pcs. $3.65

J7962—7 pcs., 4 pt. 7½ in. jug, six 3¾ in. tumblers, allover satin finish floral sprays and bird design, jug with beaded top, six bottom. 1 set in pkg. SET (7 pcs.) $4.95

CANDY OR BONBON JARS

Candy Jar—Satin floral spray with bright centered flowers.
J7977—9 in., ½ lb . . . . . Each, $1.35
J7978—10½ in., 1 lb 1.75

Optic Crystal—Satin finish floral spray
J8158—9 in., ½ lb . . . . . Each, $1.50
J8154—10½ in., 1 lb 1.85



J8016—7 pcs., 3 pt. jug, six 4¼ in. tumblers, allover satin finish sprays with ribbed petal flowers. SET (7 pcs.), $3.75

BOUDOIR WATER SETS

J7837—2 pcs., 6 in. bottle, 3¾ in. [illegible] beaded ex. in ribbed band, satin petals, [illegible] spray . . . . . Each, 95c

J7793—2 pcs., 6¾ in. handled bottle, [illegible] handle with conventional rose, polished leaves, star bottom. SET (2 pcs.), $3.75

WATER, LEMONADE OR ICED TEA SETS WITH MAHOGANY TRAYS

J8018—8 pc., 3 pt. jug, six 4¼x5¼ in. tumblers, allover satin finish floral spray, 15¾x11¾ in. oak tray with mirror bottom. . . . . SET (8 pcs.), $5.95
J8020—Without tray . . . . . SET (7 pcs.), $4.75

J7984—8 pcs., 4 pt. 10½ in. covered jug, star bottom, six 5 in. tumblers, satin ribbed band with satin flower and bead center, satin star bottom, 13¾x10¾ in. mahogany finish serving tray. 1 set in pkg. SET (8 pcs.) $6.75

J7868—8 pcs., 4 pt. 11 in. jug, six 4 in. tumblers, 2 satin finish handle, flower and bead festooning, 11¾x15¾ in. oak serving tray with dolly center. 1 set in pkg. SET (8 pcs.), $8.25

VASES—Light Cut Blanks

Showing 6 Styles of J8163 J7903 J8154

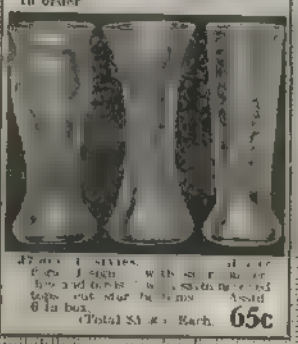
J8163—6 styles, 10 in., cubist designs, large satin floral sprays and festoons, some frosted, beaded or flared tops. Assd. 6 in box
(Total $5.40) Each, 90c

J7903—10 in., allover satin floral design . . . . . Each, $1.10

J8154—10½ in., allover satin cut floral design flared top, footed. Each, $1.10

9½ IN. VASE ASST.
Light Blanks

A wonderful assortment of shapes and designs. In demand the year 'round. Now's the time to order



J7 [illegible] 6 styles, [illegible] 6 [illegible] 1 satin [illegible] with [illegible] floral [illegible] bowl [illegible] satin [illegible] tops, cut star [illegible] Assd. 6 in box.
(Total $3.4[illegible] Each, **65c**

VASE—Light Cut Blanks

J7904 J7794 J8149 J8198

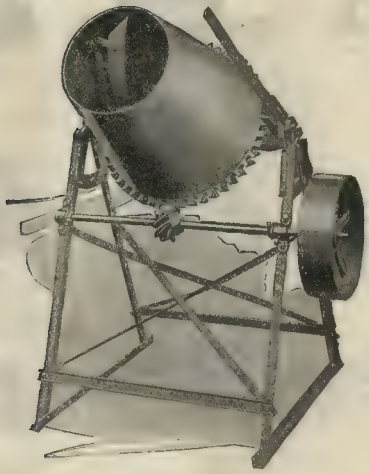
J7904—12 in., satin ribbed band, satin pendants with bright centered flowers, star bottom . . . . . Each, $1.65

J7794—12 in. wide satin paneled blank with conventional rose spray, polished leaves . . . . . Each, $3.25

J8149—12 in., bulb top, ribbed satin striped band, spray and flower, Gilting, ribbed notched top . . . . . Each, $2.75

J8198—11¾ in., Egyptian optic satin finish, heavy floral spray with leaf pendant, satin finish notched top . . . . . Each, $3.75

CONCRETE MIXING MACHINE



THE PONY MIXER

A Mixer Intended Especially for Individual Use
Inexpensive and Efficient

No machine can be of more general convenience to the farmer than one of these small machines. With it during his spare time he can build his own watering troughs, side walls, floors, foundations, cement barn floors, etc. The Mixer will soon pay for itself on one fair sized job.

The illustration above shows the machine with drum set in mixing or charging position. Charging is done on one side of the machine, discharging on the other (the drum reverses motion during the discharge).

Observe that the construction is entirely of steel or iron and that on account of its extreme simple construction there are practically no parts to wear out.

There is nothing about the Pony Mixer to get out of order; the driving is done through one speed gear which revolves the drum forward while in mixing position. When the drum is thrown to dumping position, the gear around its circumference again meshes with the spiral gear and the direction of the drum is reversed.

	Each
Pony Mixer—Equipped with both pulley for power and hand work; Weight 260 Lbs.	$48.00

Capacity, 3 Cubic Feet

CEMENT SIDEWALK TOOLS

STEARNS

SOLID BRONZE AND FINE GREY IRON

Our Solid Bronze Tools are Made of Extra Hard Metal Carefully Grained and Highly Polished Faces, with Backs Finished in Gold Bronze; They Will Scour Perfectly; Will not Rust. Handles are Wax Finished Natural Wood

Our Fine Grey Iron Tools are Made in the Same Careful and Exacting Manner as the Solid Bronze; Have Highly Polished, Nickel Plated and Buffed Faces; Backs are Nickel Plated not Buffed; Wax Finished Natural Wood Handles

EDGERS

2¾ in. Wide, 6 in. Long, ⅝ in. Turned Edge, ⅜ in. Radius

Per Dozen

No. 100 Fine Grey Iron. . . . . $ 7.00
No. 200—Solid Bronze. 16.00
Weight, 13 Lbs. per Dozen

2¾ in. Wide, 6 in. Long, ⅝ in. Turned Edge, ¾ in. Radius

Per Dozen

No. 102—Fine Grey Iron . . . . . $ 8.00
No. 202—Solid Bronze 16.00
Weight, 14 Lbs. per Dozen

STRAIGHT END EDGERS

2½ in. Wide, 8 in. Long, ⅝ in. Turned Edge, ⅜ in. Radius

Per Dozen

No. 194—Fine Grey Iron. $9.00
Weight, 15 Lbs. per Dozen

JOINTERS

Both Ends Turned Up; 2¾ in. Wide, 6 in. Long; Cuts ½ in. Deep, ⅜ in. Wide

Per Dozen

No. 105—Fine Grey Iron. . . . . $ 7.00
No. 205—Solid Bronze. 16.00
Weight, 13 Lbs. per Dozen

NARROW JOINTERS

Both Ends Turned Up; 1¾ in. Wide, 8 in. Long; Cuts ½ in. Deep, ⅜ in. Wide

Per Dozen

No. 107—Fine Grey Iron. . . . . $ 7.00
No. 207—Solid Bronze. 18.50
Weight, 18 Lbs. per Dozen

NARROW EDGERS

1¾ in. Wide, 8 in. Long, ⅝ in. Turned Edge, ¾ in. Radius

Per Dozen

No. 113—Fine Grey Iron . . . . . $ 8.00
No. 213—Solid Bronze 18.50
Weight, 18 Lbs. per Dozen

CURBING EDGERS

3⅝ in. Wide, 6 7/16 in. Long, 1⅛ in. Turned Edge, 1 in. Radius

Per Dozen

No. 115—Fine Grey Iron. $15.45
Weight, 16 Lbs. per Dozen

JOINTERS

One End Straight; 3 in. Wide, 6 in. Long; Cuts ½ in. Deep, ⅜ in. Wide

Per Dozen

No. 109—Fine Grey Iron. . . . . $ 7.00
No. 209—Solid Bronze. 16.00
Weight, 12 Lbs. per Dozen

LARGE JOINTERS

Both Ends Turned Up; 3 in. Wide, 9 in. Long; Cuts ½ in. Deep ⅜ in. Wide

Per Dozen

No. 134—Fine Grey Iron. $10.20
Weight, 21 Lbs. per Dozen

All Above, One-sixth Dozen in a Box

BEVEL EDGERS

2¾ in. Wide, 5⅛ in. Long; Width of Bevel ⅝ in.

Per Dozen

No. 128—Fine Grey Iron . . . . $ 7.00
No. 228—Solid Bronze 16.00
Weight, 15 Lbs. per Dozen

SQUARE EDGERS

3 in. Wide, 6 in. Long, 1 in. Turned Edge, ⅛ in. Radius

Per Dozen

No. 114—Fine Grey Iron. $11.10
No. 214—Solid Bronze. 18.50
Weight, 13 Lbs. per Dozen

JOINTERS

Both Ends Straight; 2⅛ in. Wide, 8 in. Long; Cuts ⅜ in. Deep, ⅜ in. Wide

Per Dozen

No. 192—Fine Grey Iron. . . . . $ 9.00
No. 292—Solid Bronze. 18.00
Weight, 18 Lbs. per Dozen

IRON HANDLE JOINTERS

2½ in. Wide, 4¾ in. Long; Depth of Cut 7/16 in., Width of Cut ⅛ in.

Per Dozen

No. 133—Fine Grey Iron. . . . . $ 7.00
No. 233—Solid Bronze 17.90
Weight, 20 Lbs. per Dozen

CEMENT SIDEWALK TOOLS

STEARNS

SOLID BRONZE AND FINE GREY IRON

Our Solid Bronze Tools are Made of Extra Hard Metal, Carefully Ground and Highly Polished Faces, with Backs Finished in Gold Bronze; They Will Scour Perfectly; Will not Rust; Handles are Wax Finished Natural Wood
Our Fine Grey Iron Tools are made in the same Careful and Exacting Manner as the Solid Bronze; Have Highly Polished, Nickel Plated and Buffed Faces; Backs are Nickel Plated not Buffed; Wax Finished Natural Wood Handles

SMALL GROOVERS

Both Ends Turned Up; 3 in. Wide; 6 in. Long; Depth of Cut ½ in. Width of Cut ⅛ in

Per Dozen

No. 194—Fine Grey Iron.....$ 7.00
No. 204—Solid Bronze..... 15.00
Weight, 18 Lbs. per Dozen

SMALL GROOVERS

One End Straight; 3 in Wide, 6 in Long; Depth of Cut ½ in., Width of Cut ⅛ in

Per Dozen

No. 191—Fine Grey Iron $7.00
Weight, 15 Lbs per Dozen

LARGE GROOVERS

"V" Shaped Groove, Both Ends Turned Up; 3 in. Wide, 9 in. Long; Depth of Cut ⅝ in, Width of Cut ⅝ in.

Per Dozen

No. 195—Fine Grey Iron; Weight, per Dozen, About 26 Lbs.....$11.25

CONCAVE TUCK POINTERS
Fine Grey Iron

Nos.	149	150	151	152	153
Size, In	½	⅝	¾	⅞	1
Weight, per Dozen, Lbs	7	7	8	8	8
Per Dozen	$7.00	7.00	7.00	7.00	7.00

CONVEX TUCK POINTERS
Fine Grey Iron

Nos.	349	350	351	352	353
Size, In	½	⅝	¾	⅞	1
Weight, per Dozen, Lbs	7	7	8	8	8
Per Dozen	$7.00	7.00	7.00	7.00	7.00

CORNER TOOLS

1½ in Sides; 6 in. Long

Per Dozen

No. 115—Fine Grey Iron.....$ 9.75
No. 216—Solid Bronze..... 17.25
Weight, 15 Lbs per Dozen

RADIUS TOOLS
Fine Grey Iron

Per Dozen

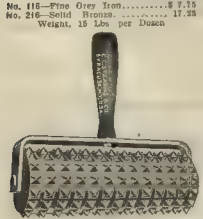
No. 130—⅝ in Radius..... $7 00
No. 131—⅞ in Radius..... 7.00
Weight, No 130, 7½ Lbs; No 131, 8 Lbs per Dozen

GUTTER TOOLS

8¾ in Wide, 6 in Long; Width of Gutter 3⅛ in., Depth of Gutter 1 in

Per Dozen

No. 117—Fine Grey Iron..... $15 15
No. 217—Solid Bronze 25 25
Weight, 24 Lbs. per Dozen



INDENTION ROLLERS
3¼ in. Diameter; 9 in. Long

Each

No. 190—Fine Grey Iron ..... $ 4 45
No. 220—Solid Bronze 11 70
Weight, 110 Lbs per Dozen

DRIVEWAY ROLLERS

4 in Diameter, 10 in Long; Depth of Grooves ⅛ in., Grooves Spacing 2 in

Each

No 122—Fine Grey Iron $4.45
Weight, 110 Lbs per Dozen

IRON TAMPERS
With 4 ft Wood Handle

Nos.	411	811	911
Size of Base, In	6x8	8x8	10x10
Weight, Each, Lbs	16	19	27
Per Dozen	$15.00	18.00	24.00

PLASTERING TROWELS

Highest Quality Crucible Spring Steel, Carefully Hardened, Tempered by Polished and Etched Blade, Closely Riveted to Long Polished Malleable Iron Mounting, with Wide Flattened Shank; With Tang Extending Through Hardwood Handle and Fastened at End with a Hexagon Nut. 4½ in. Mission Green Hardwood Handle.

FINISHING

For Fine Smooth Work; 23 Gauge Crucible Spring Steel Blade, Slightly Hollow Ground. Blade Secured to Mounting by Ten Rivets.

Nos.	HMF1	HMF2	HMF3	HMF4	HMF5	HMF6	HMF7
Size, In	4½x11	4½x11½	4½x11	4⅝x11½	4¾x12	5x11½	5x12
Per Dozen	$30.00	30.00	30.00	30.00	30.00	30.00	30.00

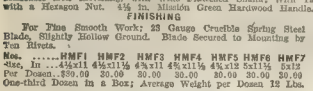
One-third Dozen in a Box; Average Weight per Dozen 12 Lbs.

BROWNING

For Rough Work; 22 Gauge Crucible Spring Steel Blade, Slightly Hollow Ground. Blade Secured to Mounting by Twelve Rivets.

Nos.	HMB4	HMB5	HMB6	HMB7
Size, In	4½x11	4½x12	5x11½	5x12
Per Dozen	$30.00	30.00	30.00	30.00

One-third Dozen in a Box; Average Weight per Dozen 13 Lbs.

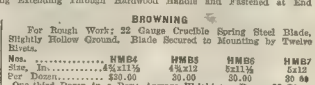


MARSHALLTOWN FINISHING

23 Gauge Crucible Spring Steel, Carefully Hardened, Highly Polished and Etched Blade, Closely Riveted to Long Malleable Iron Mounting, with Wide Flattened Shank; With Tang Extending Through Handle and Fastened at End with a Hexagon Nut. 4½ in. White Handle. Ten Rivets; Slightly Hollow Ground.

Nos.	MF1	MF2	MF3	MF4	MF5	MF6	MF7
Size, In	4½x11	4½x11½	4⅝x11	4⅝x11½	4¾x12	5x11½	5x12
Per Dozen	$30.00	30.00	30.00	30.00	30.00	30.00	30.00

One-third Dozen in a Box; Average Weight per Dozen 12 Lbs.

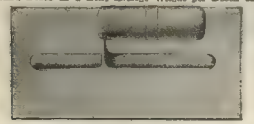


CINCINNATI PATTERN

23 Gauge Crucible Spring Steel, Hardened and Tempered, Polished and Etched Blade; Polished Malleable Iron Mounting and Shank, Secured to Blade with 8 Rivets. 4½ in. Plain White Handle. Tang Extend Through Handle and Fastened by Countersunk Hexagon Nut, Screwed on Threaded End.

Nos.	MC1	MC2	MC3	MC4	MC5	MC6
Size, In	4¾x10½	4¾x11	4¾x11¼	4¾x12	5x11¼	5x12
Per Dozen	$20.00	20.00	20.00	20.00	20.00	20.00

One-third Dozen in a Box; Weight per Dozen 13 Lbs.

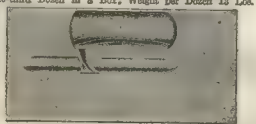


WOODLAND

Special Crucible Steel; Polished, Plain Ground and Tempered; Riveted to Polished Malleable Iron Mounting and Shank; Tang Extends through Hardwood Handle and Riveted.

Length, In	10	10½	11	11½	12
Width, In	4½	4⅝	4¾	4⅞	5
Weight per Dozen, Lbs	13	13	14	17	18
Per Dozen	$8.00	8.80	9.30	9.80	11.00

Quarter Dozen in a Box



HANDY OR FARMERS'

Steel Blade, Polished and Tempered; Malleable Iron Riveted Shank; Hardwood Handle

Length, In	10½
Width, In	4½
Weight per Dozen, Lbs	12
Per Dozen	$5.00

Half Dozen in a Box

CORNER TROWELS

For Plasterers in Working into Corners, around Moulding, etc. Polished Cast Steel Blade, Riveted to Malleable Iron Braces; 4½ in. Maple Handle.

Length Blade, In	6
Width of Blade, In	2½
Weight per Dozen, Lbs	10
Per Dozen	$7.00

Half Dozen in a Box

POINTING TROWELS

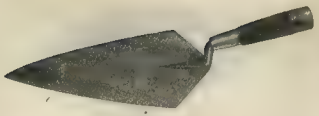
WOODLAND

For Pointing or Finishing Intersections or Joints Between Bricks and Stones. Highest Grade Crucible Steel Blade; Taper Ground, Flexible Point; Solid Steel Shank; 4½ in. Hardwood Handle; Brass Ferrule.

Length Blade, In	4½	5	5½	6
Width Heel, In	2¼	2½	2½	2¾
Weight per Dozen, Lbs	8	8	8¾	4½
Per Dozen	$3.70	3.80	4.00	4.20

One Dozen in a Box

BRICK TROWELS

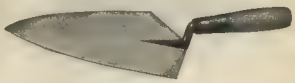


No. 15HM—HICKORY, CALIFORNIA PATTERN

Forged from Best Quality Crucible Trowel Steel, Oil Tempered and Highly Polished; Straight Blade, Taper Ground; Heavy Heel, Extra Thin Spring Point; Highly Finished Leather Washer Handle, 5¼ in. Long, with Swelled Center; Polished Hardwood Tip; Heavy Steel Ferrule.

Size, In.....	10x8	10½x8½	11x8½	11½x8½	12x8½
Per Dozen....	$15.00	15.00	15.00	15.00	15.00

One-half Dozen in a Box; Average Weight per Dozen 14 Lbs.



No. 19HM—HICKORY, PHILADELPHIA PATTERN

Forged from Highest Quality Crucible Trowel Steel, Full Taper Ground and Highly Polished; Heavy Square Heel, Flexible Point. Highly Polished Maple Handle 5¾ in. Long, with Swelled Center; 1⅜ in. Polished Steel Ferrule.

Size, In.....	10x6	10½x8½	11x8½	11½x8½	12x8½
Per Dozen....	$17.00	17.25	17.50	17.75	18.00

Half Dozen in a Box; Average Weight per Dozen 13 Lbs.

No. 110—ROSE, PHILADELPHIA PATTERN

Square Heel

Extra Quality Steel Blade, Polished and Carefully Tempered; Blued Lacquered Steel Shank; Dogwood Handle 6 in. Long, with Polished Steel Ferrule.

Length Blade, In.....	10	10½	11	11½	12
Width Heel, In.....	4⅜	4½	4⅝	4¾	5⅛
Weight per Dozen, Lbs.	12	13	14	14½	15
Per Dozen.....	$13.25	13.75	14.25	14.75	15.25

Half Dozen in a Box

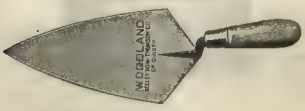
No. 422—ROSE, SPECIAL PHILADELPHIA PATTERN

Wide Heel

Extra Quality Cast Steel Blade, Carefully Tempered Ground and Polished; Heavy Heel, Flexible Point; Solid Steel Japanned Shank; Hardwood Handle 5 in. Long; Polished Steel Ferrule.

Size, In.....	10½x6	11x6	11½x6
Per Dozen.....	$13.75	14.25	14.75

Half Dozen in a Box; Average Weight per Dozen 11 Lbs.



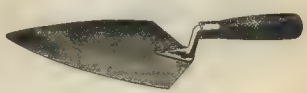
WOODLAND—PHILADELPHIA PATTERN

Square Heel

Special Crucible Steel, Polished Blade, Carefully Ground and Tempered; Stiff Heel, Rough Steel Shank, Polished Maple Handle 5 in. Long; Polished Steel Ferrule.

Length Blade, In.....	10	10½	11	11½	12
Width Heel, In.....	4½	4⅝	4⅝	5⅛	5⅛
Weight per Dozen, Lbs.	11	11½	12	13	14
Per Dozen.....	$11.50	12.00	12.50	13.00	13.50

Half Dozen in a Box



HANDY OR FARMER'S

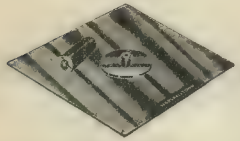
Philadelphia Pattern; Square Heel

Per Dozen

No. 10—10 in. Polished Steel Blade; 4½ in. Wide at Heel; Riveted Malleable Iron Shank; Polished Maple Handle, 4½ in. Long; Brass Ferrule..... .....$3.50

One Dozen in a Box

PLASTERERS' HAWKS

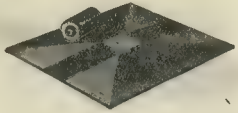


POLISHED ALUMINUM

Hard Rolled Aluminum; Will not Split, Warp nor Roughen; Hardwood Detachable Handle, Bolts to ⅞ in. Hub; 3⅜ in. Flange Base; Bolt Extends Through Handle.

Per Dozen

No. 2—Size, 13½x13¼ in.; Weight per Dozen 22 Lbs....$34.00
Quarter Dozen in a Box



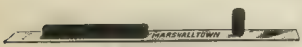
POLISHED CEDAR

First Quality Cedar; Close Grain and Very Smooth; Dovetailed Cross-pieces Across Back to Prevent Warping, and Add Strength; Detachable Hardwood Handle; Bolt Extends Through Handle.

Per Dozen

No. 22—Size, 13¾x13¾ in.; Weight per Dozen 24 Lbs....$12.00
One-Third Dozen in a Box

PLASTERERS' DARBIES



POLISHED ALUMINUM

Strong, Light and Flexible; Will Hold its Shape and Last for Years; Much More Serviceable than a Wooden Tool

Per Dozen

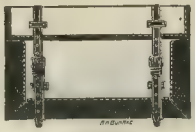
No. 2—3½x44 in.; 18 in Rib; Hand Rolled Aluminum, Polished Both Sides; Smooth Straight Edges; Hardwood Rib, Black Enameled; Detachable Upright Handle....$36.00
One Dozen in a Box, Weight 27 Lbs.

WOOD

Per Dozen

No. 62—3½x44 in.; 18 in. Rib; Smooth Finished Straight Grained Cedar; Smooth Straight Edges; Detachable Upright Handle.....$7.50
Open Stock; Weight per Dozen 13 Lbs.

TOOL BAGS



A to E

MASONS'

Made of One Piece of 24 Oz. White Duck. Bottom has Two Thickness 24 Oz. Duck with Straw Board Filling. Lock Stitch Machine Sewed. Double 12 Gauge Steel Frame is Riveted to Body. Sides are connected with Genuine Leather Welt; 5 Steel Studs on Bottom. Lock and Key.

Nos.	1	2	3
Size, In.	18x15½x5½	20x15½x5½	22x15½x5½
Weight Each, Lbs.	3½	3¾	4
Each	$2.70	3.00	3.10

PLUMBERS'

Made of High-Grade Carpet, with Leather Trimmings 3½ in. Wide on, Sides and Bottom; Two 1¼ in. Leather Straps with Suitable Buckles, passing through leather loops. Heavy Duck Lining; Top Bound for ¾ in. with Leather.

Each

No. A—Size 16x25 in.; Weight About 3¼ Lbs.....$5.00

Open Stock

MACHINISTS' AND TOOLMAKERS' CASES

BUHRKE LEATHER COVERED

Covered with First Class Seal Grain Leather Front and Slide Finished in Beautiful Mahogany Color Lined or Unlined. Good Substantial Leather Handle, Reinforced with Steel Rod. Buhrke Solid Reinforcing Division to Prevent End from Bulging or Warping. Drawer Slides Dadoed and Glued. Good Lock with Two Keys.

Inside Dimensions

Drawers, No	1	2	3	4
Length, Inches	14½	14½	14½	14½
Width, Inches	6½	6½	6½	6½
Height, Inches	½	1½	1½	3½

Each

No. 460—Outside Dimensions 16 x 9½ x 8½ Inches . . **$13.20**

Inside Dimensions

Drawers, No	1	2	3	4	5	6
Length, Inches	7 15/16	7 15/16	7 15/16	16½	16½	16½
Width, Inches	6½	6½	6½	6½	6½	6½
Height, Inches	½	1 15/16	2	1½	1½	3½

Each

No. 461—Outside Dimensions 18 x 11 x 8½ Inches **$16.20**

Inside Dimensions

Drawers, No	1	2	3	4	5	6	7
Length, Inches	8½	8½	8½	8½	15½	18½	18½
Width, Inches	6½	6½	6½	6½	6½	6½	6½
Height, Inches	½	½	1½	1½	1½	1½	3½

Each

No. 462—Outside Dimensions 20 x 12 x 8½ Inches. **$18.60**

BUHRKE OPEN TILL

Made of Quarter Sawed Oak Throughout, Highly Rubbed and Polished. All Drawers and Top Tray Felt Lined. Good Substantial Leather Handle Reinforced with Steel Rod. Buhrke Solid Oak Reinforcing Division, Making the Case Very Substantial and Preventing the Ends from Bulging and Warping. Drawer Slides Dadoed and Glued in Outside Frame. Trench Mirror in Lid. Two Catches on Side. Cylinder Lock and Two Keys.

Inside Dimensions

Top Tray, 15½ x 7⅞ x 3½ Inches

Drawers, No.	1	2	3	4	5	6	7
Length, Inches.	6½	6½	6½	6½	6½	14½	14½
Width, Inches.	6½	6½	6½	6½	6½	6½	6½
Height, Inches.	1	1½	1	1	½	½	1½

Each

No. 470—Outside Dimensions 16 x 12 x 8½. **$23.80**

Inside Dimensions

Top Tray, 18½ x 7⅞ x 3½ Inches

Drawers, No.	1	2	3	4	5	6	7
Length, Inches	8½	8½	8½	8½	8½	17½	17½
Width, Inches	6½	6½	6½	6½	6½	6½	6½
Height, Inches	1	2	1	½	1	½	1½

Each

No. 471—Outside Dimensions 19 x 12 x 8½ Inches . . . **$28.60**

MACHINISTS' AND TOOLMAKERS' CASES

BUHRKE STANDARD

Made of Quarter Sawed Oak Throughout, Highly Rubbed and Polished All Drawers Felt Lined. Good Substantial Leather Handle, Reinforced with a Steel Rod. Buhrke Solid Oak Reinforcing Division. Will Last a Lifetime Cylinder Lock with Two Keys

Inside Dimensions

Drawers, No	1	2	3	4	5	6
Length, Inches	6½	6½	6½	14⅛	14⅛	14⅛
Width Inches	5¼	5¼	5¼	5¼	5¼	5¼
Height, Inches	2 3/16	½	½	1½	1½	3½

Each

No. 450—Outside Dimensions, 16 x 11 x 8¾ Inches $20.40

Inside Dimensions

Drawers, No.	1	2	3	4	5	6
Length, Inches	7½	7½	7½	16⅛	16⅛	16⅛
Width Inches	6¼	6¼	6¼	6¼	6¼	6¼
Height, Inches	2 3/16	½	½	1½	1½	3½

Each

No. 451—Outside Dimensions 18 x 11 x 8¾ Inches $21.60

Solid, Highly Polished Oak Throughout Reinforced Handle Reinforced Solid Oak Division Preventing Ends from Bulging and Warping. Drawer Slides Dadoed and Glued in Outside Frame, Instead of Nailed

Inside Dimensions

Drawers, No	1	2	3	4	5	6	7	8
Length, Inches	8½	8½	8½	8½	18⅝	18⅝	18⅝	18⅛
Width, Inches	7	7	7	7	7	7	7	7
Height, Inches	1¼	2	2¾	3½	1¼	1¼	1¼	3½

Each

No. 452—Outside Dimensions 20 x 12 x 9½ Inches ..... [illegible]

TOOL CHESTS

JUNIOR

Hardwood Box, Lock-cornered, Mission Finish. Measures 12½ Ins. Long, 6 Ins. Wide, 3½ Ins. High. **Contents:** Hatchet, Nickel Finish; Hammer, Nickel Plated; Screw-driver, Ruler, Saw, Gimlet, Package of Wire Nails.

Per Dozen

No. 100 ..... **$25.00**

HOUSEHOLD

Hardwood, Mission Finish, Wax Gloss, Lock-cornered, with Brass-plated Hook and Catch Size, 12½ Ins. Long, 6 Ins. Wide, 3½ Ins. High. Mission Finish with Waxed Gloss Hardwood Lock-cornered Box. **Contents:** Claw Hammer (Forged Steel) Screw Driver (Forged Steel) 1 Package Assorted Sizes Screws (10 to 20 Doz. in a Box), 1 Package Carpet Tacks, 1 Package Wire Nails (½ In.), 1 Package Wire Nails (1 In.), 1 Package Wire Nails (1½ In.), 1 Package Wire Nails (2 In.). This Makes One of the Most Useful Conveniences Around the House

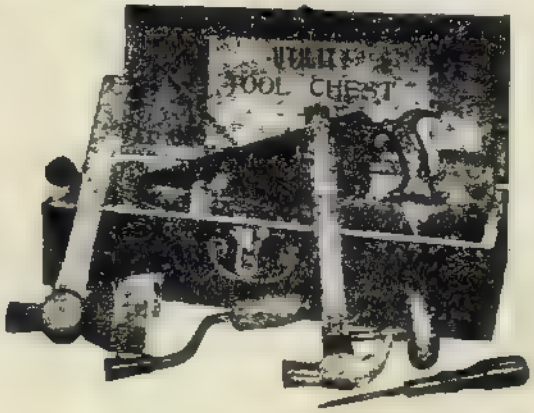
Per Dozen

No. 00 ..... **$27.00**

Hardwood Box, Lock-cornered, Mission Finish. Measures 17 Ins. Long, 8 Ins. Wide 3½ Ins. High. **Contents:** Hatchet, Nickel Finish, Hammer, Nickel Plated, Brace, Auger Bit, Saw, Screw-driver, Gauge, Scratch Awl, Rule, Package of Wire Nails.

Per Dozen

No. 150 ..... **$35.00**

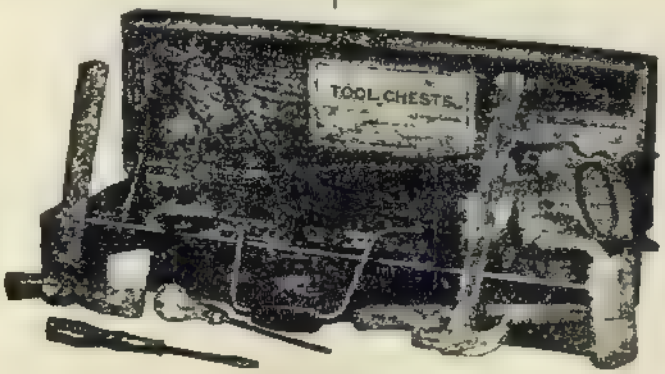


UTILITY

Box Measures 19 Ins. Long, 7½ Ins. Wide, 5½ Ins. High. Made of Hardwood, Lock-cornered, Mission Finish, with a Waxed Gloss Handle and Spring Catch on Front. **Contents:** Brace, Panel Saw, Scratch Awl, Hatchet (Forged Steel), Gauge Screw-driver, Auger Bit, Claw Hammer, 2 Packages of Wire Nails.

Per Dozen

No. 0 ..... **$20.00**



UTILITY

Box Measures 25 Ins. Long, 7½ Ins. Wide, 4½ Ins. High. Made of Hardwood, Lock-cornered, Mission Finish, with a Waxed Gloss Handle and Spring Catch on Front. **Contents:** Panel Saw, 20-in. Blade, Hatchet (Forged Steel); Claw Hammer (Forged Steel); Screw Driver, Tack Claw, Marking Gauge, Auger Bit, Small Size, Auger Bit, Large Size; Brace, Scratch Awl, Mallet, 2 Packages Wire Nails, Different Sizes.

Per Dozen

No. 1 ..... **$125.00**

TOOL CHESTS

UTILITY

Hardwood Box, Lock-cornered, Mission Finish. Measures 25 Ins. Long, 7½ Ins. Wide, 4½ Ins. High. Handle and Spring Catch on Front. **Contents:** Panel Saw, 20-in. Blade, Hatchet (Forged Steel), Claw Hammer (Forged Steel), Screw-driver, Marking Gauge, 2 Auger Bits, Scratch Awl, Brace, Iron Block Plane (7½ Ins. Long, 1¾-in. Cutter), Coppered Steel Oiler, Mallet, Handled Chisel, 2 Packages of Wire Nails, Different Sizes.

Per Dozen

No. 2 . . . . . **$153.50**

UTILITY

Hardwood Box, Lock-cornered, Mission Finish, with a High Gloss. Measures 27 Ins. Long, 10 Ins. Wide, 7½ Ins. High. Handle Each End. Two Spring Catches on Front. This Chest, for Appearance and Merit in Assortment of Tools and Quality of Them, is Better Value at the Price We Ask Than Any in the Market. It has No Competitor. **Contents:** Panel Saw, 20-in. Blade; 2 Auger Bits, Brace, Hatchet (Forged Steel), Handled Chisel, Marking Gauge, Claw Hammer (Forged Steel), Coppered Steel Oiler, Can of Glue, Scratch Awl, 2-Ft. Boxwood Rule, Level, Nail Set, Screw-driver, Large Mallet, 2 Packages of Wire Nails, 1 Pair Combination Pliers, Block Plane, 7½ Ins. Long, 1¾-in. Cutter.

Per Dozen

No. 3 With Sliding Tray. . . **$261.50**

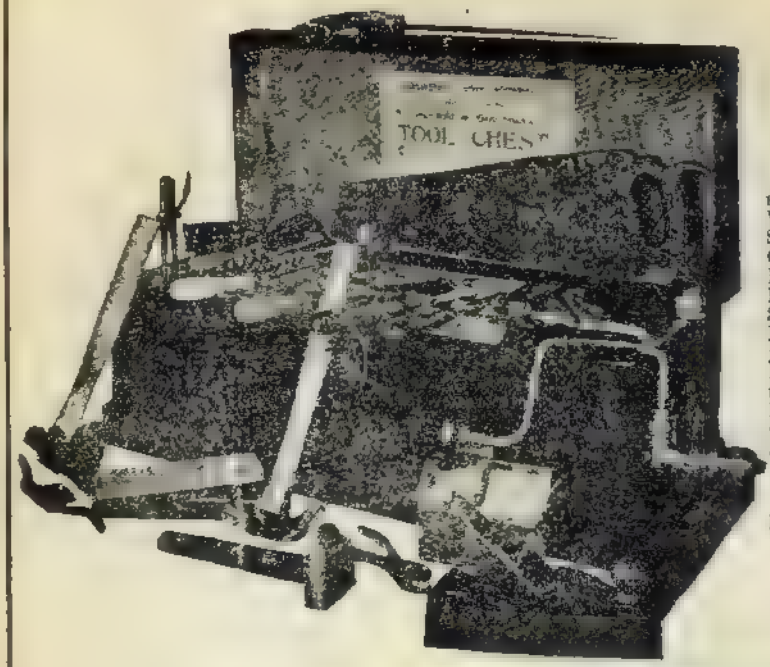
UTILITY

Hardwood Box, Lock-cornered, Mission Finish, Waxed Gloss. Measures 27 Ins. Long, 10 Ins. Wide, 7½ Ins. High. Handle on Each End, Lock and 1 Key. Sliding Tray and Two Spring Catches on Front of Chest. Contents: Hand Saw, 20-in. Blade, Block Plane, 7½ Ins. Long, 1¾-in. Cutter, Drop-Forged Steel Wrench, Claw Hammer (Forged Steel), Handled Chisel, 1 In.; Handled Chisel, ¾ In.; Hatchet (Forged Steel), Ratchet Brace, 3-Ft. 6-Fold Rule, Bench Vise, 1½-in. Jaw, Screw Driver, Wing Divider, Compass Saw, Marking Gauge, Nail Set, Auger Bit, 4/16; Auger Bit, 5/16; Auger Bit, 7/16; Scratch Awl, Coppered Steel Oiler, Can of Glue, 2 Packages of Wire Nails, Different Sizes; Handled Flat File, 8 Ins.; Handled 3-corner File, Level, Combination Plier, Try Square.

Per Dozen

No. 3½ **$312.50**

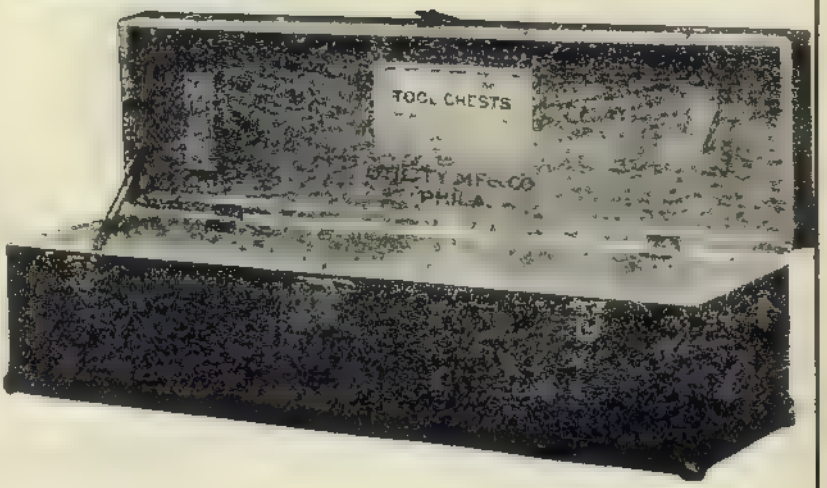
TOOL CHESTS



UTILITY

Hardwood Box, Lock-cornered, Mission Finish, Waxed Gloss. Measures 28 Ins. Long, 12 Ins. Wide, 10 Ins. High. Heavy Handles on Each End, Sliding Tray, Lock and Key. **Contents:** Handled Gauge, Mounted Sharpening Stone, Ratchet Brace, Nail Set, Marking Gauge, Hatchet (Full Polished, Best Quality), Try Square, Claw Hammer (Forged Steel), Screw-driver, Hand Saw, 22-in. Blade, Latest Design; Smooth Plane (8 Ins Long, with Lever Adjustment); Wing Divider, Handled Chisel, ½ In.; Handled Chisel, 1 In.; 2 Packages of Wire Nails, Different Sizes; Coppered Steel Oiler, Taper File and Handle, Wrench, Combination Plier, Can of Glue, Gimlet Bit, 2-Ft. Boxwood Rule, Bench Vise, 1½-in. Jaw; Spoke Shave, 1 Auger Bit, 7/16; 1 Auger Bit, 9/16; 1 Auger Bit, 11/16; Level, Compass Saw.

No. 4 . . . . . **$475.00**



SHOULDER CHEST

These Chests are All High Grade, Made of Selected Hardwood, Lock-cornered, with Our Best Finish. All Edges Rounded. Brass-plated Trimmings on All Corners. Lock and Key. Stay Hinge. Two Spring Catches on Front.

Per Dozen

No. 400—Inside Measurements, 32 Ins. Long, 8 Ins. Wide, 8 Ins. High..... **$117.50**

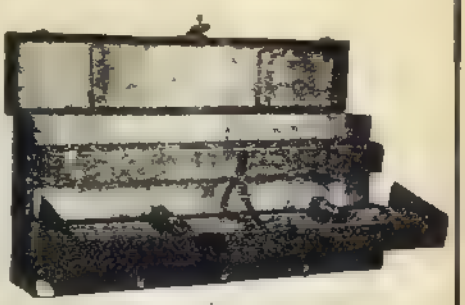
We Especially Solicit and Pay Particular Attention to Mail Orders

BUHRKE TOOL CASES

Strong Corners, Lock, Hinges, Catches and Handle. Fittings Securely Riveted to Box and Rivets Clinched on Inside

CARPENTER'S

Box and Edges Covered with Enameled Steel of an Oliver Color (or Fibre) Green Lining. Edges and All Openings Bound with Black Enameled Angle Iron Edges Reinforced with Brass Plated Angles. Drawer Operated with Swivel Swing.



Level Brackets and Saw Brackets Fastened with Adjustable Stone Bolts. Wide Enough to Accommodate Two Planes, High Enough for a Square and Long Enough for a Full Size Saw

Top Cover Opens on Hinges as Well as Drop Front. Level Brackets are Placed in the Top and Saw Brackets in the Drop Front.

	Each
No. 401—Size 32 x 15½ x 7 Ins	$14.85
No. 402—Size 32 x 15½ x 7 Ins	$16.45

CARPENTER'S

Solid Wood Box, with Main Box and Edges Covered with Olive Green Enameled Steel (or Fibre) and Reinforced with Brass-Plated Angles. Edges Bound with Black Enameled Iron. Saw Bracket, Fastened with Adjustable Stone Bolts in Cover

	Each
No. 403—Size 32 x 8½ x 9 Ins.	$9.55

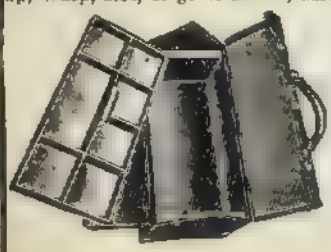
FOR ELECTRICIANS, STEAM FITTERS, ETC.

Substantial Wood Box, Covered with Olive Green Enameled Steel, Including Edges. (Also Made Fibre Covered.) Edges Bound with Black Enameled Angle Iron and Box Reinforced with Brass-Plated Angles. Lined in Green and with Green-Stained Tray 1½ Ins. Deep. Height, 8½ Ins., Width, 8 Ins.

No. 404—Length, Ins.	17	19	21	23
Each	$7.35	7.45	8.05	8.65

KENNEDY ALL STEEL GRIPS

Made of 26 Gauge Steel, Reinforced Throughout by Double Forming and Double Seaming. Extra Wiring and Bracing, Together with Electric Welding and Solid Riveting, Give them the Added Strength. Finished in Three-Coated Baked Enamel Brown or Black Leather. The Finish will not Rub, Chip or Easily Scratch Off. They look like Leather Grips. Constructed with a Disappearing Waterproof Hinge, it Gives Them a Smooth Carrying Surface. Waterproof, Wearproof, Fireproof and Weather-Proof. They will not Soak up, Warp, Rot, or go to Pieces; Also Thief Proof can be Locked, Chained, and Cannot Be Cut Open



Solid Brass Corners, Side Catches, Yale Notch Locks. Genuine Leather Covered Handle with Steel Core. Shaped like a Leather Bag, Equipped with Light Weight Steel Tray Divided into Small Partitions for Carrying Drills, Bits, Small Parts, etc. Tray is 1¼ Ins. deep and Rests on Ledges at Top of Case. Contents Cannot Spill Out if Bag is Loaded, as Flat Bottom will Prevent Overturning.

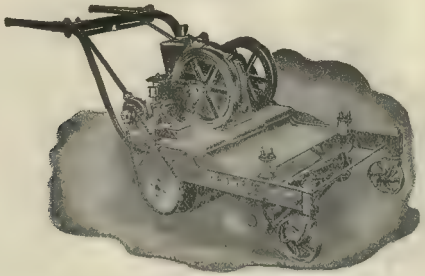
	Each	
No. 114—14 x 7 x 9 Inches	$5.25	$7.00
No. 116—16 x 9 x 11 Inches	6.80	9.14
No. 118—18 x 10 x 13 Inches	5.75	9.56

Brass Corbin Two-key Notch Lock, Brass Corners and Heavy Catches on Ends; Genuine Cowhide Handle with Steel Core, Extra Till under Lid and all Drawers Lined with Best Quality Felt and Fitted with Solid Brass Pulls. Reinforced at all Points of Strain. Drawers Run on Separate Tracking and are Rigid and Slide Easily into Place. Front Drops and Slides under Lower when Opened. Fastens at Bottom and Securely Locks to Upper Lid when Closed. Electric Welding and Inner Corrugation in Lid Will Carry Heaviest Equipment.

	Each	
No. 518—18 x 8 x 12½ Inches	$17.00	$25.30

LAWN MOWERS

For Shipment from Factory

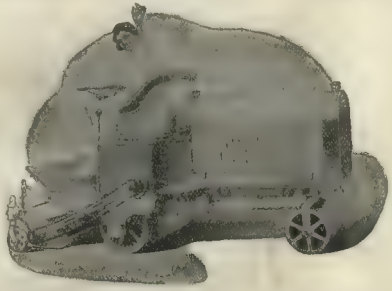


COMBINATION LAWN ROLLER AND LAWN MOWER

Walk Type, Motor Driven

Hundereds of this type of machine have been sold during the last three or four years and are giving general satisfaction. It is their simplicity, economy of fuel and ease of operation that recommend them.

	Each
Model H—Combination Lawn Roller and Lawn Mower; Cut 30 in.; Weight 900 Lbs. . . .	$400 00
Model G—Combination Lawn Roller and Lawn Mower; Cut 35 in.; Weight 1000 Lbs. . . .	450 00



Continental Motor and Cylinders, 20 H. P.

Mayo Radiator and Hood

Coldwell's Demountable Cutting Unit

Width of Cut, 40 inches.

Weight on Drive Roller, 1100 Lbs.

Diameter of Drive Roller, 15 inches.

Cutting Capacity, 1½ to 2¼ Acres per Hour.

Length Overall, 7 feet.

Height Overall, 4 ft. 5 in

COMBINATION LAWN ROLLER AND LAWN MOWER

Ride Type Motor Driven

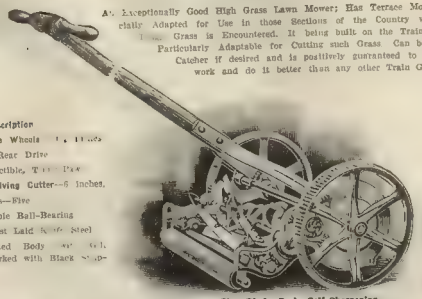
In order to maintain a perfect lawn, it is just as important to have it well and continuously rolled as it is to have it well and continuously cut It is equipped with the latest up-to-date type of motor, transmission and cooling devices. All materials used throughout, workmanship and finish are of the best. The amount of weight on the rollers is just right as we have determined it by years of experience and it is so simple that the ordinary laboring man can be taught to operate it in a few hours.

	Each
Model J—Combination Lawn Roller and Lawn Mower . . .	$1300 00

LAWN MOWERS

COLDWELL PARK—BALL BEARING

An Exceptionally Good High Grass Lawn Mower; Has Terrace Mowing Arrangement. Specially Adapted for Use in those Sections of the Country where a Quick Growing [illegible] Grass is Encountered. It being built on the Train Geared Style makes it Particularly Adaptable for Cutting such Grass. Can be supplied with a Grass Catcher if desired and is positively guaranteed to do a greater variety of work and do it better than any other Train Geared Lawn Mower.



Description

Diameter of Drive Wheels—[illegible] Inches
Gears—External, Rear Drive
Ratchets—Indestructible, Triple Pawl
Diameter of Revolving Cutter—6 Inches.
Number of Blades—Five
Bearings—Adjustable Ball-Bearing
Bottom Knife—Best Laid Knife Steel
Finish—Bright Red Body and Gear. Trimmings: Marked with Black Striping

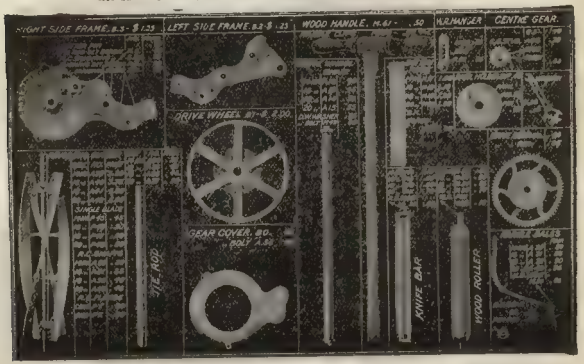
Ball-Bearing; High Wheel; Five Blade Reel; Self-Sharpening

Made throughout of the Best Material, and has several of the Latest Devices, such as the Indestructible Triple Pawl, Ratchets, Adjustable Bearings, etc., and Patent Device for Handle Adjustment, which is absolutely necessary for terrace mowing.

Nos.	18	20
Width of Cut, In.	16	20
Weight, Each, Lbs.	60	68
Each	$22.00	26.00

One in a Box

EXTRA PARTS FOR "PARK" LAWN MOWERS
Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory



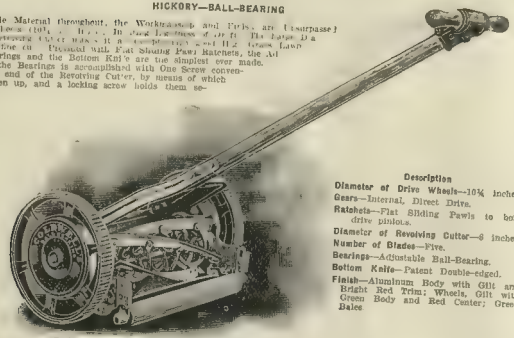
The Words **Right** and **Left** refer to the right or left hand when standing behind the Mower and facing in the direction the machine travels when in use

Kelley-How-Thomson Co. of Duluth

LAWN MOWERS

HICKORY—BALL-BEARING

Made of First Grade Material throughout, the Workmanship and Parts are Unsurpassed. Has Large Drive Wheels (10¾ inches). In case Bearings of any ft. The Large Dia Mower, with a very Low Cu Provided with Four Sliding Pawl Ratchets, the Adjustment of the Bearings and the Bottom Knife are the simplest ever made. The Adjustment of the Bearings is accomplished with One Screw conveniently located at the end of the Revolving Cutter, by means of which all wear can be taken up, and a locking screw holds them securely in place.



Description

Diameter of Drive Wheels—10¾ inches.
Gears—Internal, Direct Drive.
Ratchets—Flat Sliding Pawls to both drive pinions.
Diameter of Revolving Cutter—6 inches.
Number of Blades—Five.
Bearings—Adjustable Ball-Bearing.
Bottom Knife—Patent Double-edged.
Finish—Aluminum Body with Gilt and Bright Red Trim; Wheels, Gilt with Green Body and Red Center; Green Balee.

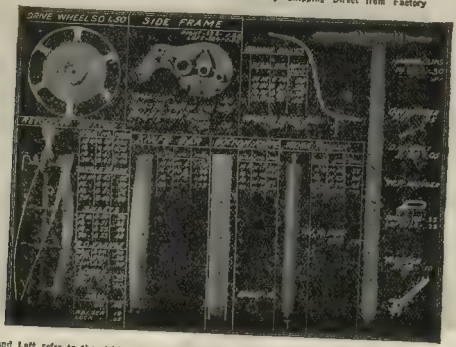
Ball Bearing; High Wheel; Five Blade Reel; Self-Sharpening

Furnished with Patent Terrace Mowing Arrangement, Reversible Channel Shaped Bottom Knife. Grass Catcher can be attached

Nos.	116	118	120
Width of Cut, In	16	18	20
Weight, Each, Lbs.	57	60	65
Each	$22.00	24.00	26.00

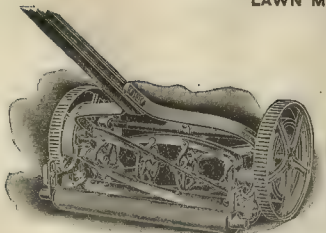
One in a Box

EXTRA PARTS FOR "HICKORY" LAWN MOWERS
Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory



The Words Right and Left refer to the right or left hand when standing behind the Mower and facing in the direction the machine travels when in use

LAWN MOWERS



HICKORY, JR

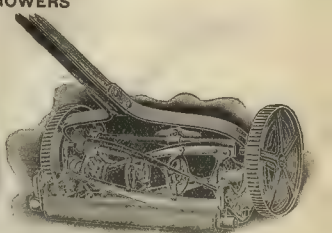
Ball Bearing; Open Construction High Wheel; Self-Sharpening

A High Grade Lawn Mower of the Open Frame Type of Construction. The Workmanship and Material is of the Very Best; All Running Parts have been Carefully Machined and a second cut made on each operation to assure accuracy and perfection in the assembling of the mower. Wheels are 10 in. High with the Gears raised up from the ground; completely housed to prevent grass and dirt from entering and clogging them Revolving Cutter is 6 in. in diameter and has 5 **Cruc.ble Steel Blades,** Highly Tempered. The Revolving Cutter is Carried on Patented Ball Bearings, which are Adjusted by a Single Screw. The Bottom Knife is of Cast Steel, Oil Tempered

Aluminum with Gilt and Red Trimmings

Nos.	214	216	218
Width of Cut, In.	14	16	18
Weight, Each, Lbs.	48	50	56
Each	$15.00	15.75	16.50

One in a Box



MAPLE

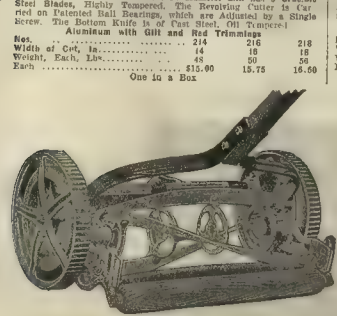
Ball Bearing; Open Construction High Wheel; Self-Sharpening

Material and Workmanship of the very best. Made on thoroughly practical lines and is so constructed that it can-bot be easily disarranged. The Drive Wheels are 9 in. in diameter, with the gears raised up from the ground, fully protected from the dirt and cut grass. The Revolving Cutter is 6 in. in diameter and has 4 **Cruclble Steel Blades** Highly Tempered and ground true their entire length; Carried on Patented Adjustable Ball Bearings. Ratchet has a flat Steel Sliding Pawl placed in the Revolving Cutter Gear.

Gilt with Black and Red Trimmings

Nos.	314	316	318
Width of Cut, in.	14	16	18
Weight, Each, Lbs.	44	46	48
Each	$12.00	12.75	13.50

One in a Box



WOODLAND

Brass Bushed Journals; High Wheel; Self-Sharpening

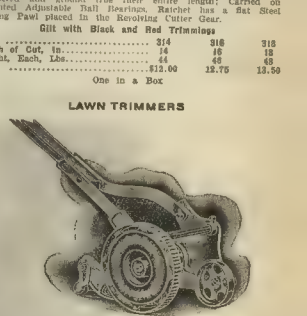
Same in Construction as the Maple shown above, with the exception that it is made with Adjustable Brass Bushed Journals in place of ball bearing. The Teeth of the Gears are of the right shape, ratio and pitch and are cut much finer than those used in a mower of this grade, which insures a quiet-running machine. The Knives, **3 in number,** are full-sized and will not spring out of line when something of a hard nature enters between them while mowing. The Bottom Knife is Adjusted to the Revolving Cutter by Steel Set Screws.

Aluminum with Gilt and Red Trimming

Nos.	414	416	418
Width of Cut, In.	14	16	18
Weight, Each, Lbs.	42	44	46
Each	$9.00	9.45	10.20

One in a Box

LAWN TRIMMERS



COLDWELL

Made of the Best Material Throughout; Workmanship and Finish unsurpassed; Diameter of Drive Wheel, 8 in.; Gears, Internal, direct drive; Ratchets, Sliding Pawl; Diameter of Revolving Cutter, 5 in.; Number of Blades, Four; Bearings, Adjustable Ball-Bearings; Bottom Knife, Best Tool Steel.

Aluminum and Gilt Finish

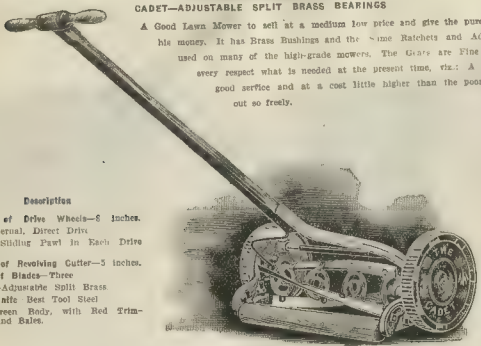
Nos.	8
Width of Cut, In.	8
Weight, Each, Lbs.	32
Each	$10.50

One in a Box

LAWN MOWERS

CADET—ADJUSTABLE SPLIT BRASS BEARINGS

A Good Lawn Mower to sell at a medium low price and give the purchaser full value for his money. It has Brass Bushings and the Same Ratchets and Adjustments that are used on many of the high-grade mowers. The Gears are Fine Cut and it is in every respect what is needed at the present time, viz.: A mower that will do good service and at a cost little higher than the poor trash that is put out so freely.



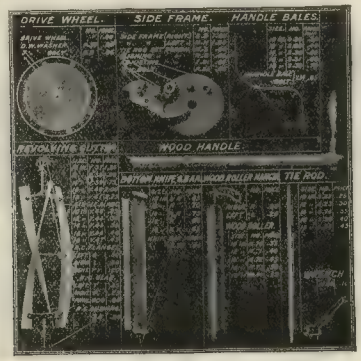
Description

Diameter of Drive Wheels—8 inches.
Gears—Internal, Direct Drive.
Ratchets—Sliding Pawl in Each Drive Pinion.
Diameter of Revolving Cutter—5 inches.
Number of Blades—Three.
Bearings—Adjustable Split Brass.
Bottom Knife—Best Tool Steel.
Finish—Green Body, with Red Trimmings and Rules.

Adjustable Split Brass Bearings; Low Wheel; Three Blades; Self-Sharpening

Nos.	514	516	518
Width of Cut, In.	14	16	18
Weight, Each, Lbs.	38	35	40
Each	$6 75	7.05	7.50
	One in a Box		

EXTRA PARTS FOR "CADET" LAWN MOWERS
Not Carried in Stock; Can be Furnished Only by Shipping Direct from Factory

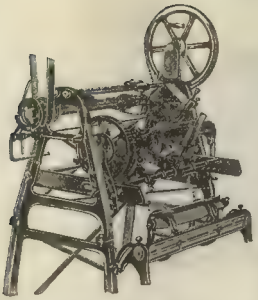


The Words Right and Left refer to the right or left hand when standing behind the Mower and facing in the direction the machine travels when in use.

LAWN MOWER GRINDERS

For Shipment from Factory

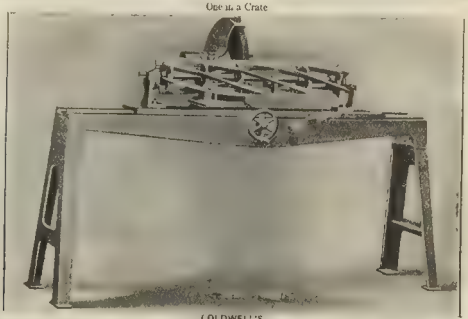
IDEAL



Japanned Cast Iron Frame (18 in. Wide on Floor, 30 in. Wide Overall), Stationary Carriage and Large Sprocket Wheel 16 in. in Diameter, with 5 in. Wood Handle; Frame is Full Steel Braced, Height Overall 36 in.; Carriage has Gas Pipe Front and Rods with Gas Pipe Front Bar (on which mower rests); Ball Bearing Steel Main Driving Shaft 1¼ in. in Diameter, with Ball Bearing Carborundum Wheel 8 in. in Diameter with ⅝ in. Face; Main Bearings are Babbitted with extra good babbitt, and are Self-Aligning. The Grinding Wheel is driven by a ⅜ in. High Grade Bicycle Chain from the Main Shaft and the Main Shaft Connected to the Large Sprocket Wheel by ¼ in. Bicycle Chain, while the Screw Feed Shaft is driven by a Round Leather Belt. The Grinding Wheel is Mounted on a Ball Bearing Hub which makes it easily Adjustable and very easy running. The Arm which carries the Grinding Wheel is pushed along the shaft by a Sliding Head. The Sliding Head is driven by a ¾ in. Steel Screw Shaft behind the Guide Shaft. The Feed is thrown out by a small Trip Lever. The lawn mower is turned upside down and rests upon the Supports. The Roller also rests upon Supports; the Hook is hooked in under the Straight Blade which forms the guide for grinding. As the Grinding Wheel passes along the Knife it grinds the spiral reel to fit the straight Blade, even though it may be crooked. When operating by power, which is strongly recommended, four 18 in. blades can be ground in 4 minutes; the adjusting of the mower should not take over 6 minutes. Cast Iron Japanned Adjustable Attachment Bar will hold any straight cutting mower blade; or a few ¼ in. bolts of various lengths will clamp any mower blade to the attachment. The Attachment Bar is placed on one side to hold Planer Knives. Japanned Steel Roller Rest with Pin Adjustable in Height. Complete with Skate Sharpener Attachment. Circular giving full directions for use furnished with each machine.

	Each
No. 2 WITH HAND WHEEL ONLY (Without Sub Base); Will take Mowers Up to about 24 in. Cut, Inside Length, 30 in., Length Overall, 44 in. Weight Each abt. 175 Lbs.	$75 00
No. 1 WITH HAND WHEEL AND POWER PULLEYS (Without Sub Base); Tight and Loose Pulleys 4 in. in Diameter, 1⅞ in. Face for 1¼ in. Belt, Wrought Iron Belt Stiffer will take mowers up to about 24 in. cut, Inside Length, 30 in., Length Overall, 44 in., Weight Each about 175 Lbs.	7 50
No. SB –SUB BASE (For Nos. 2 and 1), Japanned Cast Iron, Steel Braced 28 in. Wide on Floor, 34 in. Long, 8 in. High. Weight Each about 40 Lbs.	2 50

One in a Crate



COLDWELL'S

A Strong, Heavy, Serviceable Machine such as is used in the Latest Mower Factories for Grinding Lawn Mower Knives. It is so arranged that the Revolving Cutter is supported while grinding either by the ends of shaft held in bearings or on centers. The Table Carrying the Revolving Cutter is carried forward and backward in the face of the emery wheel by means of the hand crank. As the Emery Wheel wears smaller in diameter it is brought forward to its work by means of the hand wheel. The machine is furnished with One Emery Wheel of the Best Quality, 14 in. Diameter, with a 1½ in. Face, and Drive Pulley of 4 in. Diameter and 4 in. Face. Wheel should run about 1000 R. P. M.

	Each
Coldwell's Sharpener—Approximate Weight about 530 Lbs.	$125 00

One in a Crate; Shipping Weight about 600 Lbs.

BICYCLES

CROWN NAME PLATE

MODEL 48

Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Arch Bar—¾-inch.

Fork—Full enameled, with fancy dart finish.

Crown—One-piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake. New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—⅞x1-inch pitch roller. Diamond.

Finish—Maroon with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 48—Wood cement rims, New Departure coaster brake, complete ..... **Each $60.00**

Model 48—Steel cement rims, Morrow coaster brake, complete ..... **Each $60.00**

Model 48—Steel double clinch rims, Morrow coaster brake, complete ..... **Each $65.00**

No. 8 Tool Bag, wrench and oiler, extra ..... **Per set $1.00**

BOYS MODEL 10

Frame—Curved top bar; 18-inch, 1-inch 19-gauge tube; 4-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled.

Crown—Forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—24-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, front hub to match.

Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge, 28-inch.

Chain—⅞-inch x 1-inch pitch roller. Diamond.

Finish—Maroon with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—No. 2 motorbike.

Pedals—Rubber motor.

Bars—No 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grip.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 10—Wood cement rims, New Departure coaster brake, complete ..... **Each $58 00**

Model 10—Steel cement rims, Morrow coaster brake, complete ..... **Each $59 00**

Model 10—Steel double clinch rims, Morrow coaster brake, complete ..... **Each $63 00**

No. 8 Tool Bag, wrench and oiler, extra..... **Per set $1.00**

The above bicycles are completely equipped except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

BICYCLES

AMERICA NAME PLATE

MODEL 54

Frame—Double bar, curved top bars, 20-inch, 5-inch head, 1-inch 19-gauge tube; flush connections; ⅞-inch tapered rear forks; ⅝-inch rear stays.

Fork—Full enameled, with braces motorcycle type.

Crown—Forged.

Cranks—Fauber round special, 7-inch, one-piece patented, with heart design sprocket.

Gear—26-tooth front, 10-tooth x ⅛x1-inch pitch rear

Hubs—Coaster brake. New Departure on wood rims, Morrow on steel rims, front hub to match.

Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge.

Chain—⅛-inch x 1-inch pitch roller. Diamond.

Finish—Blue with white head.

Tires—Fisk-Premier Tough Tread Non-Skid; 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel, front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 54—Wood cement rims, New Departure coaster brake, complete ..... Each $60.00

Model 54—Steel cement rims, Morrow coaster brake, complete ..... Each $60.00

Model 54—Steel double clinch rims, Morrow coaster brake, complete ..... Each $65 00

No. 8 Tool Bag, wrench and oiler, extra ..... Per set $1.00

MODEL 46

Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled, with fancy dart finish.

Crown—One piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅛-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—⅛-inch x 1-inch pitch roller. Diamond.

Finish—Blue with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 46—Wood cement rims, New Departure coaster brake, complete ..... Each $59.00

Model 46—Steel cement rims, Morrow coaster brake, complete ..... Each $59.00

Model 46—Steel double clinch rims, Morrow coaster brake, complete ..... Each $63 00

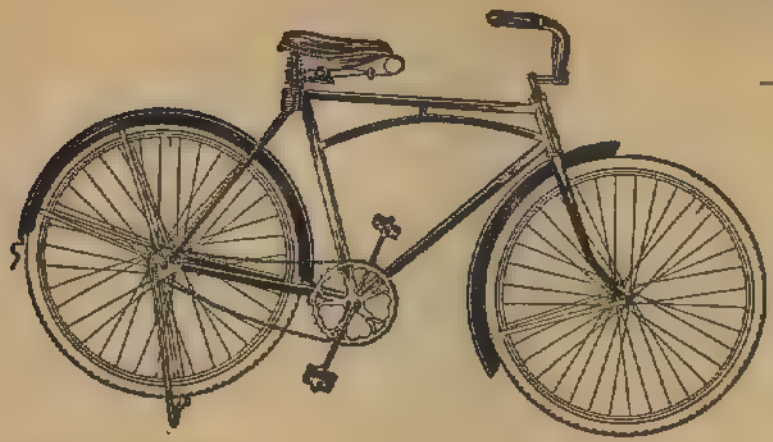
No. 8 Tool Bag, wrench and oiler, extra ..... Per set $1.00

The above bicycles are completely equipped, except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

BICYCLES

AMERICA NAME PLATE



MODEL 48

Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Arch Bar—¾-inch.

Fork—Full enameled, with fancy dart finish.

Crown—One-piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—⅛x1-inch pitch roller. Diamond.

Finish—Blue with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 48—Wood cement rims, New Departure coaster brake, complete ..... Each $60.00

Model 48—Steel cement rims, Morrow coaster brake, complete ..... Each $60.00

Model 48—Steel double clinch rims, Morrow coaster brake, complete ..... Each $65 00

No. 8 Tool Bag, wrench and oiler, extra..... Per set $1.00

BOYS MODEL 10

Frame—Curved top bar; 18-inch, 1-inch 19-gauge tube; 4-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled.

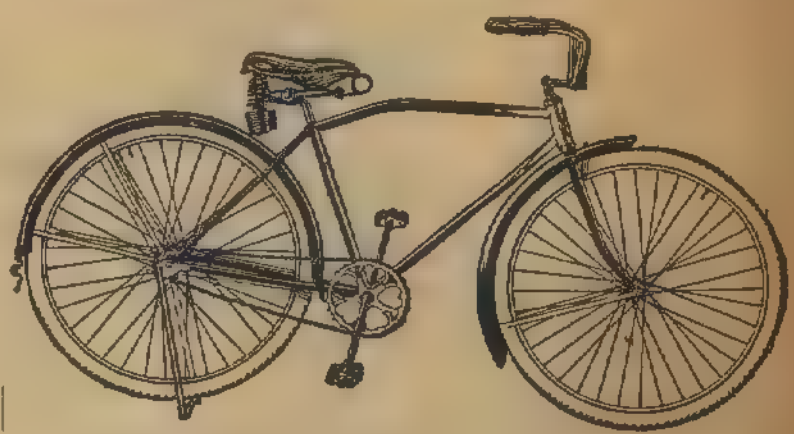
Crown—Forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—24-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, front hub to match.

Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge, 28-inch.



Chain—⅛-inch x 1-inch pitch roller. Diamond.

Finish—Blue with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grip.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 10—Wood cement rims, New Departure coaster brake, complete ..... Each $58.00

Model 10—Steel cement rims, Morrow coaster brake, complete ..... Each $59.00

Model 10—Steel double clinch rims, Morrow coaster brake, complete ..... Each $63 00

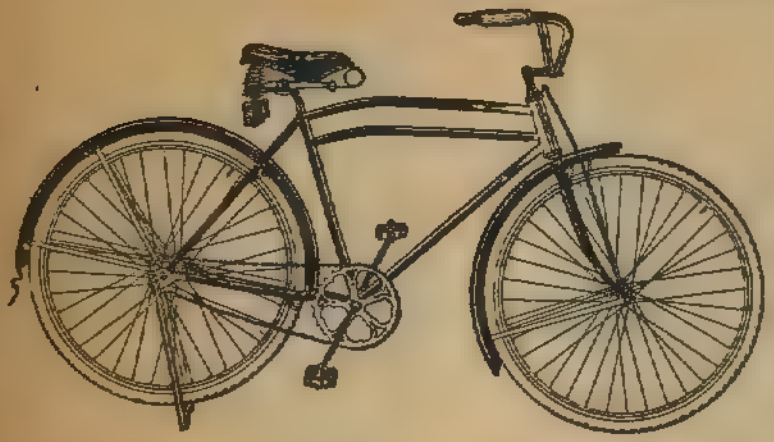
No. 8 Tool Bag, wrench and oiler, extra..... Per set $1.00

The above bicycles are completely equipped, except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

BICYCLES

ADLAKE NAME PLATE



MODEL 54

Frame—Double bar, curved top bars, 20-inch, 5-inch head, 1-inch 19-gauge tube; flush connections, ⅞-inch tapered rear forks; ⅝-inch rear stays.

Fork—Full enameled, with braces motorcycle type.

Crown—Forged.

Cranks—Fauber round special, 7-inch, one-piece patented, with heart design sprocket.

Gear—26-tooth front, 10-tooth x ⅞x1-inch pitch rear.

Hubs—Coaster brake. New Departure on wood rims, Morrow on steel rims, front hub to match.

Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge.

Chain—½-inch x 1-inch pitch roller. Diamond.

Finish—Brown with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel, front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

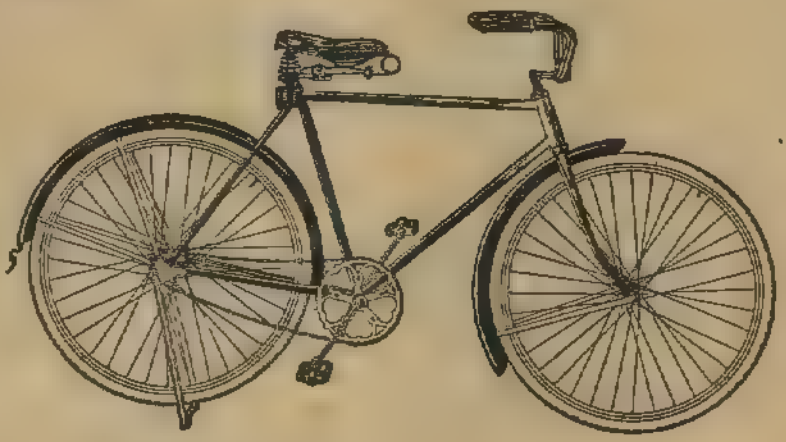
Model 54—Wood cement rims, New Departure coaster brake, complete ..... Each $60.00

Model 54—Steel cement rims, Morrow coaster brake, complete ..... Each $60.00

Model 54—Steel double clinch rims, Morrow coaster brake, complete ..... Each $65.00

No. 8 Tool Bag, wrench and oiler, extra ..... Per set $1.00

MODEL 46



Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled, with fancy dart finish.

Crown—One piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—½-inch x 1-inch pitch roller. Diamond.

Finish—Brown with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No 10 adjustable expander forward extension, with No 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 46—Wood cement rims, New Departure coaster brake, complete ..... Each $58.00

Model 46—Steel cement rims, Morrow coaster brake, complete ..... Each $59.00

Model 46—Steel double clinch rims, Morrow coaster brake, complete ..... Each $63.00

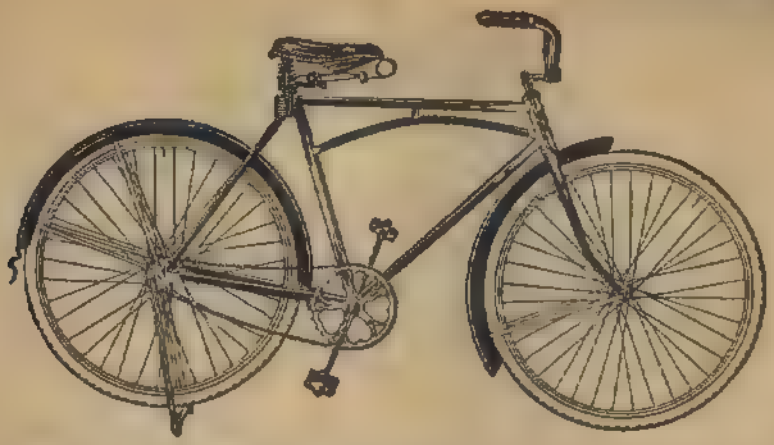
No. 8 Tool Bag, wrench and oiler, extra ..... Per set $1.00

The above bicycles are completely equipped, except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

BICYCLES

ADLAKE NAME PLATE



MODEL 48

Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Arch Bar—¾-inch.

Fork—Full enameled, with fancy dart finish.

Crown—One-piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—½x1-inch pitch roller. Diamond.

Finish—Brown with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

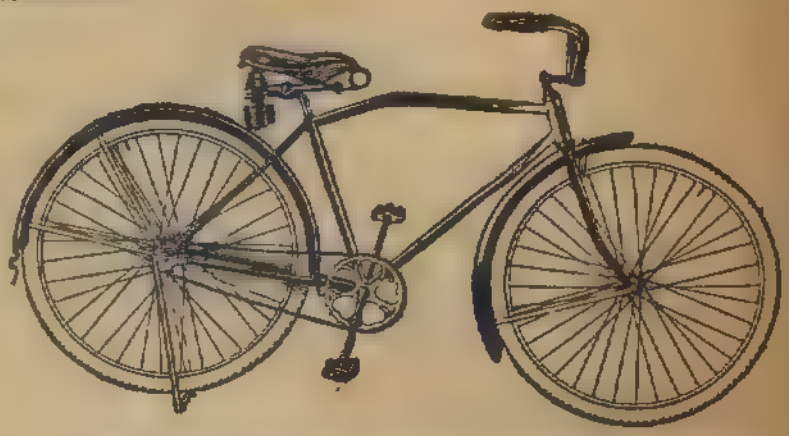
Model 48—Wood cement rims, New Departure coaster brake, complete ..... Each $60.00

Model 48—Steel cement rims, Morrow coaster brake, complete ..... Each $60.00

Model 48—Steel double clinch rims, Morrow coaster brake, complete ..... Each $65 00

No. 8 Tool Bag, wrench and oiler, extra ..... Per set $1 00

BOYS MODEL 10



Frame—Curved top bar; 18-inch, 1-inch 19-gauge tube; 4-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled.

Crown—Forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—24-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, front hub to match.

Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge, 28-inch.

Chain—½-inch x 1-inch pitch roller. Diamond.

Finish—Brown with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather bull dog grip.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 10—Wood cement rims, New Departure coaster brake, complete ..... Each $58 00

Model 10—Steel cement rims, Morrow coaster brake, complete ..... Each $59 00

Model 10—Steel double clinch rims, Morrow coaster brake, complete ..... Each $63 00

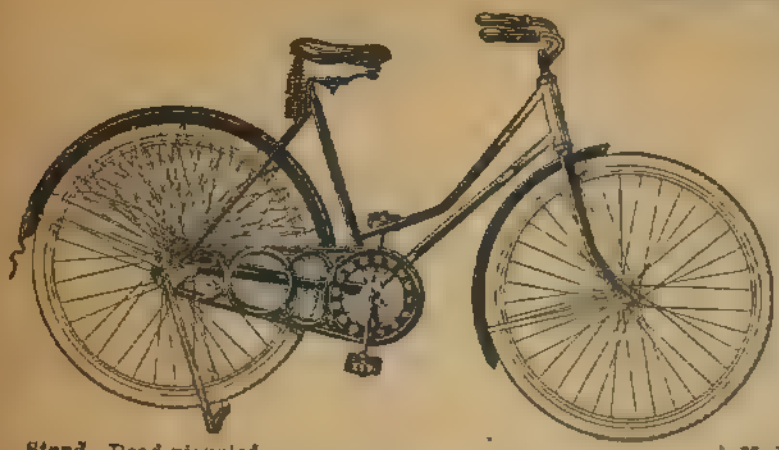
No. 8 Tool Bag, wrench and oiler, extra..... Per set $1.00

The above bicycles are completely equipped, except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

BICYCLES

LADIES MODEL 56

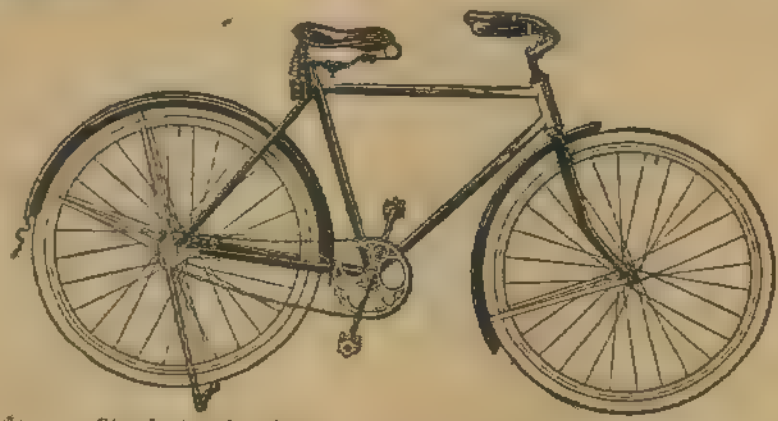


Frame—20-inch, 1-inch 19-gauge tube; 7-inch head; flush connection; ⅞-inch tapered rear forks; ⅝-inch rear stays.
Fork—Full enameled, with dart finish.
Crown—Forging, one-piece.
Cranks—Fauber Round Special, 6½-inch one-piece patented, with heart design sprocket.
Gear—22-tooth front; rear, 10x⅛-inch.
Hubs—Coaster brake. New Departure on wood rims, Morrow on steel rims; front hub to match.
Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge.
Chain—½-inch x 1-inch pitch roller. Diamond.
Finish—Black with white head.
Bars—No. 64, adjustable with No. 10, sewed leather bull dog grips.
Chain and Dress Guard—With net.
Guards—Drop side, steel, front and rear, flat braces, enameled with center stripe to match head.
Stand—Dead nickeled.

Model 56—Wood cement rims. New Departure coaster brake, complete ..... Each $55.00
Model 56—Steel, double clinch rims. Morrow coaster brake, complete ..... Each $65.00
No. 8—Tool bag, wrench and oiler, extra ..... Per set 1.00

JUVENILE MODELS

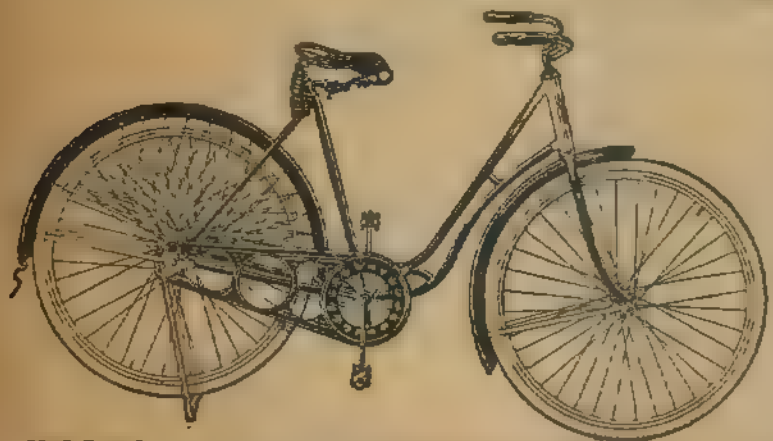
BOYS MODEL 8



Frame—18-inch, 1-inch 19-gauge tube; 4-inch head; flush connections; ⅞-inch tapered rear forks; ⅝-inch rear stays.
Fork—Full enameled.
Crown—Forged
Cranks—Fauber Round Special, 5½-inch one-piece patented, with heart design sprocket.
Gear—22-tooth front; rear, 10x⅛-inch.
Hubs—Coaster brake, New Departure, with front hub to match.
Rims—36-hole, wood enameled white center, with one wide black and one hairline black stripe, gray edge, 26-inch.
Chain—½-inch x 1-inch pitch roller. Diamond.
Finish—Blue with white head.
Tires—Fisk Juvenile 26-inch tires, guaranteed.
Saddle—Troxel No. 21-CC Spiral.
Pedals—Rubber motor.
Bars—No. 64, adjustable with No. 10, sewed leather bull dog grips.
Mud Guards—Drop side, steel, front and rear, flat braces, enameled, with center stripe to match head.
Stand—Dead nickeled.

Model 8—Wood cement rims only. New Departure coaster brake, complete ..... Each $58.00

GIRLS MODEL 9



Frame—17-inch, 1-inch 19-gauge tube; 5½-inch head; flush connections; ⅞-inch tapered rear forks; ⅝-inch rear stays.
Fork—Full enameled.
Crown—Forged.
Cranks—Fauber Round Special, 5½-inch one-piece patented, with heart design sprocket.
Gear—22-tooth front; rear, 10x⅛-inch.
Hubs—Coaster brake, New Departure with front hub to match.
Rims—36-hole wood, enameled white center, with one wide black and one hairline black stripe, gray edge, 26-inch.
Chain—½-inch x 1-inch pitch roller. Diamond.
Finish—Blue, with white head.
Tires—Fisk Juvenile, 26-inch, guaranteed.
Saddle—Troxel No. 21-CC Spiral.
Pedals—Rubber motor.
Bars—No. 64, adjustable with No. 10, sewed leather bull dog grips.
Mud Guards—Dropside, steel front and rear, flat braces, enameled with center stripe to match head; with nets.
Chain Guard—Black enameled.
Stand—Dead nickel.

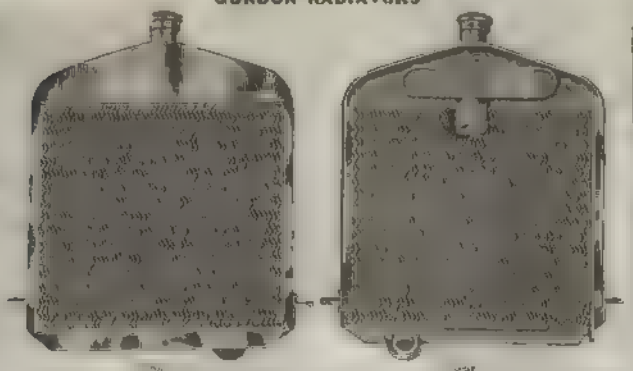
Model 9—Wood cement only. New Departure, coaster brake, complete ..... Each $58.00

The above bicycles are completely equipped, except tool bag outfit, and positively no change in equipment will be made. Crown, Adlake and American name plates are all the same color. Average shipping weight, 45 lbs.

FOR FORD CARS

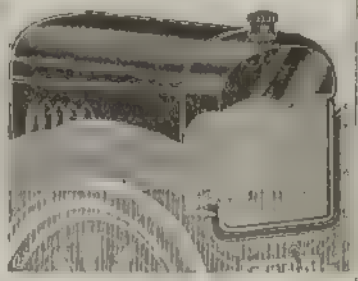
With an increase of approximately one million Fords in operation this year, there is more demand for accessories than ever before. Every new owner is a live prospect for the many accessories that comfort and convenience demand. Our unlimited resources in buying accessories for Ford cars enable us to have the most called for items, priced to help you meet competition and make a good profit.

GORDON RADIATORS



"BULL DOG" RADIATOR SHELL AND HOOD

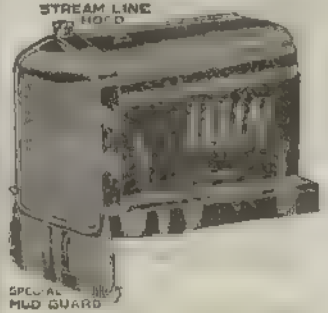
We can supply Shell and Hood for 1909 to 1914 models with a delay of 10 days after receiving order. Use special shells for 1917 and later models.



4K3411 Hood and Shell. Bull dog type hood fits over radiator, curved to fit body and dash, rear end of shell, rear roof and back of body, all of streamline effect, no [illegible] Ford radiator, roads black baked enamel. 1 set in crate. Set $13.95

RADIATOR, HOOD, SHELL AND SHIELD

For 1911 and 1916 models



4K3429 Hood gives the car a streamline effect, front shield adds to the appearance of [illegible] Ford radiator equipped with [illegible] glator equipped with [illegible] that is particularly efficient in cooling a Ford engine. Black enamel finish only [illegible] box [illegible] and shield in corrugated carton. Outfit complete, $32.50

"CROWN" TOURING CAR FENDERS

[illegible] gauge steel, two coats lustrous [illegible] enamel baked on.

Rear

Complete Set—Front and rear [illegible] Set

4K3902—Fits 1918 and earlier models. Set, $19.75

4K3903—Fits 1917 and later models. Set $19.75

Front Only—2 in set. [illegible] Set

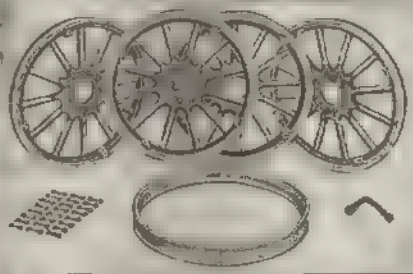
4K3926—For 1918 and earlier models. Set $12.50

4K3927—Fits 1917 and later models. Set $12.50

Rear Only—2 in set. [illegible] Set

4K3928—Fits all models. Set $9.85

KELSEY WHEEL AND RIM SET



4K9724—Consists of four new wheels, natural finish, varnished, each wheel complete with well known Kelsey demountable rim, size 30x3½, one extra rim brace, wrench and 24 hub bolts. 1 set in carton. Set $29.50

"PEERLESS" COMMERCIAL FENDERS

For Ford—1 ton truck equipped with 32x4½ pneumatic tires

4K5503 Made of heavy gauge steel, finished [illegible] coats of black enamel baked on, strong, rigid construction with skirt reinforcement. 2 pair in crate. Pr $7.85

CONNECTING ROD Complete with Babbitt Bearings

4K9905 Highest grade material, superior to most rods on the market and equal to any in [illegible] interchangeable with regular Ford rod. Complete with babbitt bearings. 1 in pkg. Each, $1.10 [illegible] .98

"PEERLESS" HOOD

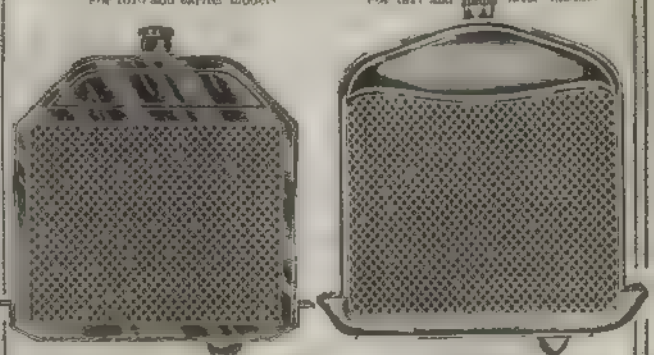
For 1917 and later models

4K5502—Heavy gauge steel, finished with 2 coats of black enamel, 4 pc. construction, heavily and rigidly built, fits 1917 and later model radiator, not suitable for early models. 1 in crate. Each $6.75

"PEERLESS" RADIATORS

Have 25% more cooling space than type of core now used. Guaranteed to keep engine cool under most trying conditions.

For 1914 and earlier models — For 1917 and later models



4K3907 [illegible] Black Enamel

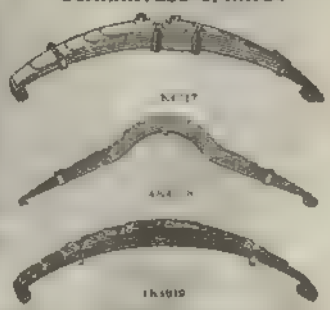
4K3907—1916 and earlier models. Each, $19.50

Nickel Trim [illegible] 1917 and later models

4K4908—Fits 1917 and later models. Each $19.50

Each $22.50

GUARANTEED SPRINGS



4K4917 "Titanic," guaranteed front spring, has no center bolt or center rib to weaken [illegible] and wedge [illegible] strength [illegible] spring. 1 in pkg. Each $4.00

4K4918 Guaranteed rear spring, [illegible] grade special analysis spring steel with spring steel clip painted black, guaranteed against defects in workmanship and material. 1 in pkg. Each $8.50

4K4919—Guaranteed front spring, [illegible] oil tempered special analysis steel, painted black. 1 in pkg. Each, $2.25 12 or more, 2.10

"PARAMOUNT" COMMERCIAL FENDERS

Heavy gauge steel, two coats lustrous black enamel baked on. Matches front fenders of the Ford car. Easily attached. 2 in set. [illegible] in crate.

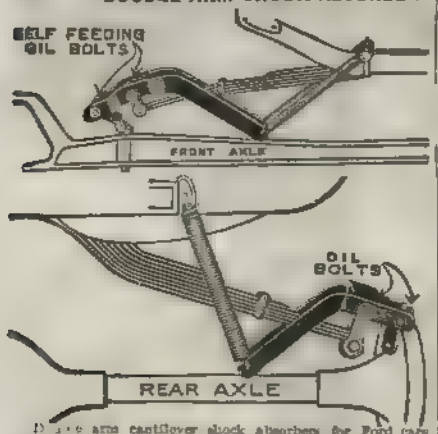
4K4904 Especially adapted to fit the new Ford 1 ton truck, equipped with solid tires. 4K4904—Crown type for regular Ford chassis. Pr $7.50

FOR FORD CARS

"SIMPLEX JR." STARTER

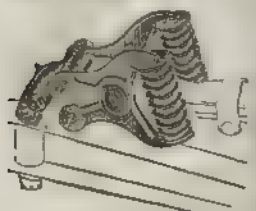
4K4824—Lever principle automatic release, easy to operate, easily operated and installed crank replaces rear fender pedal to any engine with more speed than the crank. Complete in shipping carton, 18 lbs. Each, $7.35

WALKER'S STEEL "BILT" DOUBLE ARM SHOCK ABSORBERS



Double arm cantilever shock absorbers for Ford cars. Steel arms, rear perches, hooks, bolts, etc. Light, strong and unbreakable; of best, cool running design; guaranteed to ride as specified. Perfect fit, 4 holes which give perfect lubrication; no extra tools or drilling necessary. Each set complete in box with directions.

4K5803—Touring car type ..... Set
4K5804—Roadster car type $5.50

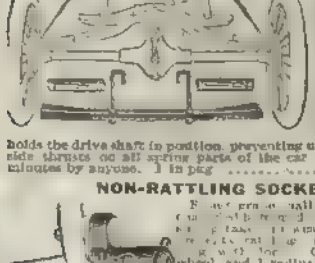


"W-X" SHOCK ABSORBER

High grade malleable iron black enamel coil springs can be attached without extra parts; compression and rebound springs assure easy, long cushioning and prevents breaking; will not squeak or rattle. Each set in box with directions for attaching.

4K4952—For Ford roadster or sport ..... Set
4K4953—For Ford touring car Set $5.50

BODY AND FENDER BRACE



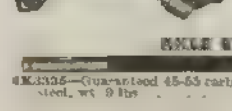
4K3380 — Fits all model Ford cars. Absolutely guaranteed. Made from best quality heat treated steel, I beam construction to withstand upper body support to overcome sagging of running boards, equalizes the spring action, all mechanical parts are held in a rigid position, prevents side sway and broken springs. Also holds the drive shaft in position, preventing uneven strains and side thrusts on all spring parts of the car. Installed in 30 minutes by anyone. 1 in pkg ..... Each, $2.48

NON-RATTLING SOCKETS

Heavy gauge malleable iron, black enamel finish, nickel socket fronts, brass and nickel plated parts, adjustable screw to prevent rattle. Order 8 steering wheel and 1 radius rod sockets for complete set. 1 in box

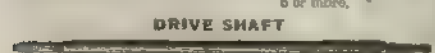
4K4664—Steering wheel socket ..... Pair 25c
4K4665—Radius rod socket ..... Pair, 25c

"APCO" STEERING COLUMN BRACE



4K4942—Black enameled iron, attaches to upper part of dash at 1 end, to steering column at other, prevents wobbling, making steering column solid. Complete with bolts, nuts and screws. 1 in carton. Each 75c

AXLE SHAFT



4K3326—Guaranteed 45-55 carbon high pressure heat treated steel, wt 9 lbs ..... Each, $.95
6 or more, ...

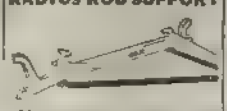
DRIVE SHAFT

4K3506—Heat treated, hot rolled steel accurately machined and ground ..... Each $1.65

FRONT RADIUS ROD

4K6947—Offers 2335 ball or rear end seat forging front ends are cold rolled steel, bent and machined, tubing is round stock with rear end swaged to ¾ round, all joints are brazed. Duplicate of original Ford radius rod. 1 in pkg. Each, $1.65
Lots of 6 ..... $1.50

RADIUS ROD SUPPORT



4K6944—Heavy gauge steel, black enameled, an acknowledged necessity for Ford cars prevents creaking or bending of the radius rod, thus eliminating trouble and accidents. 1 in pkg. Each, 55c

WINDSHIELD ATTACHMENT

4K5361—For converting windshields formerly furnished with 1915 and 1916 FORD cars to GAIN VISION AND VENTILATING TYPES. Adapter fits front seat top, folds down all the way and may be tilted in when not in use, provides ventilation, finished in black enamel. Easy with complete instructions for installing ..... Each, $2.95

HUDSON CRANK CASE REPAIR ARM

4K4160—Heavy cast metal for replacing broken crank case arms, does away with the old welding job, fits all models of Ford cars with or without starter. 1 in box Each, $1.20

1 PC. RADIUS ROD SUPPORT

1x1½ in. angle iron. Correct mechanical construction, strong, durable and reliable with punched twin hook bolt.

4K5565—For 1921 and earlier Ford cars ..... Each, $0.75
4K5869—For 1920 Ford cars 1.15

"APCO" BRAKE ROD SUPPORT

4K4888—Malleable iron, black enameled, enclosed spring forces self lubricating stud against brake rod, also adjustable without interfering with movement of brake rod, easily attached, 1 set in pkg Set 65c

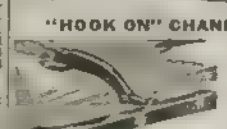
"DEPENDABLE" FRONT BUMPER

4K5681 – Heavy angle steel, no cast parts, Each in box with fittings, 10 lbs. Each, $3.45

"DEPENDABLE" REAR BUMPER AND TIRE CARRIER

4K5880 – Heavy angle steel, no cast parts, holds 1 or 2 tires, spare wheels on demountable rims, commercial cross and lamp bracket & dimples for attaching. No straps furnished for any Ford or Chevrolet. Each in carton with all fittings Each, $3.65

"HOOK ON" CHANNEL BAR BUMPERS

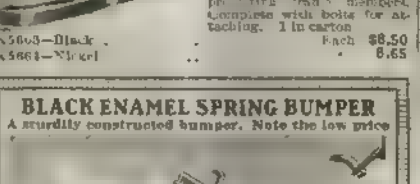


2x1-4x80 in., cold drawn steel channel bar, malleable iron rear rebound brackets, clamp rigidly to the car frame without any mechanical changes. Will fit any earth, sand or running board members. Complete with bolts for attaching. 1 in carton

4K5663—Black ..... Each $8.50
4K5664—Nickel 8.65

BLACK ENAMEL SPRING BUMPER

A sturdily constructed bumper. Note the low price



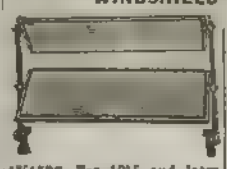
4K5515—A bracket to be bolted to the spring clips, one on each side, fits for Ford, Buick and Chevrolet cars. Each in heavy box with all fittings Each, $8.15

VENTILATING WINDSHIELD FRAME

Glass not included

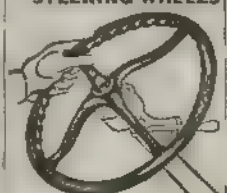
4K3649 – Fits 1915 to 1923 models, inclusive. Beautifully finished in black enamel and nickel plate. Transforms the glass of the Ford windshield into an improved type rain vision and ventilator. Easily installed. Each in strong fiber carton, Each $8.50

VENTILATING WINDSHIELD



4K4598—For 1915 and later models, 39¼ in. wide, 24 in. high, heavy double strength glass, black enameled and nickel trimmed, only single adjustment for rain vision and ventilation. Complete directions provided for detaching old shield and attaching new. In crate Each, $4.

CORRUGATED RIM STEERING WHEELS

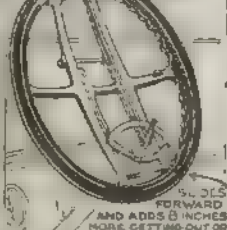


17 in. Gives the proper leverage and relieves the steering strain. Spider of this wheel is accurately machined, interchangeable with the standard spider, rims are corrugated, made from 1 pc selected maple properly bent and laminated. 1 in carton.

4K5547 – Black rim, aluminum spider Each, $3.65
4K5800 – Maple rim, black spider Each $3.95
4K5529—Wire nut with aluminum spider Temp Out

NEVILLE "MORE-ROOM" 17 IN. STEERING WHEEL

Patented adjustable steering wheel allows for [illegible] Jams in the car from the seat thus giving the driver room to get [illegible] Chevrolet. Each in carton



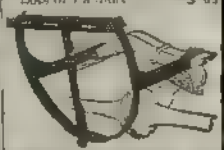
4K3395—With slight pressure on a release button the driver is enabled to [illegible] wheel [illegible] Keyed and bored to fit [illegible] to which it is to be attached. 1 in carton Each, $8.65
Lots of 6 to 12 ..... 8.25

The great number of Ford Cars in daily use makes it easy to sell accessories. Get started now

"EMCO" TIRE CARRIERS

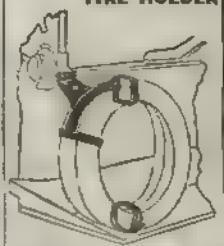
Adopted as standard equipment on all [illegible] Fords. Made of armored [illegible] steel easily attached, not [illegible] or scratch the [illegible] finish with [illegible] nuts fit any tube, tight [illegible] and fast, [illegible] work loose

4K3800—Demountable clincher for 2 clincher tires without tools, one 30x3 and one 30x3½ Each $3.75
Lots of 6 or more 3.65



4K3801 – For use on single tire on demountable rims of Chevrolet and 4 Chevrolet Each, $4.20
Lots of 6 or more 3.90

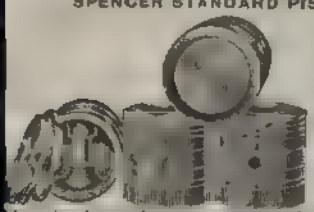
RUNNING BOARD TIRE HOLDER



4K3803 – Hold 2 tires [illegible] Malleable iron finished [illegible] enamel [illegible] and [illegible] nickel trimmed. [illegible] tire is supported [illegible] arm by [illegible] tire [illegible] [illegible] [illegible]

FOR FORD CARS

SPENCER STANDARD PISTONS



Soft, slightly gray [illegible] will not warp [illegible] Fords. Perfect [illegible] Motors, [illegible] with [illegible] of the same wt. and of light wt. will make a much smoother running motor, overcomes knock [illegible]

[illegible] Each $2.10
Lots of 6, 1.95

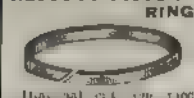
INLAND 1 PIECE

The Inland is recognized the world over as the mechanic's perfect piston ring for complete gas tight ring in one piece. Gives more power, less fuel and oil reduces carbon and increases [illegible] Each in glassine envelope

[illegible]

Each 87½c

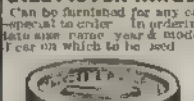
PRESCOTT PISTON RINGS



[illegible] Dozen
Dog
Doz $1.25

GILL PISTON RINGS

Can be furnished for any car special to order. In ordering state size range, year & model of car on which to be used



[illegible] Each $4.25

MILES 1 PC. TRIPLE SEAL PISTON RINGS

Perfectly machined, absolutely accurate, no slots, guaranteed [illegible] Can furnish any size [illegible] to order, each in box

[illegible] Each
[illegible] $1.25

"VICTOR" GASKETS

Made of copper, brass and asbestos. Wherever cylinder head of Ford car motor is removed for grinding in valves, etc., a new gasket is necessary and to make a new one from asbestos sheet is quite a task. 1 in pkg

[illegible] Each 35c
[illegible] Set 45c

"ANCO" EVENHEAT MANIFOLD

4K8734—Fits all models of Ford cars in place of old style manifold without altering the [illegible] or the use of special gaskets. Cast in one piece, no moving parts [illegible]

Each $6.75

RELIABLE TIMERS

Apco Heavy pressed steel shell 4½ in clock spring bone fiber washers, short contacts [illegible] to make [illegible] and spark

4K 545—1 in box, Each, 75c

"Moseo" Pressed steel case, best bone fiber ring, spark cover to [illegible] proof, [illegible] and [illegible] of new [illegible] perfectly guaranteed to give perfect satisfaction [illegible] especially constructed "short point" roller

4K3958—1 in box...Each, 85c

"COMPETITION" CUTOUT OUTFIT

4K3550—1½x28 in., consists of a gray iron solid back valve [illegible] with a [illegible] with a one-piece lever thus doing away with the trouble some adjusting lever generally used on valves of similar types, valves carefully ground, bored accurately to [illegible] before [illegible] the factory. All parts finished in [illegible] baked black enamel. 1 out fit in carton. Each 72c

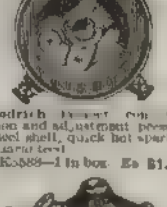
Highway Oil-less"—Black enameled stamped steel shell bone dry fiber rear hardened steel cam. Rear end of [illegible] absorbs oil, brush of special [illegible] hard steel, brass slightly curved to fit ring

4K4496—1 in box Each 95c

"APCO" 1 PC. MUFFLER & CUT-OUT

4K4043—Cast 1 pc. black enameled self-contained muffling device, large open cut-out controlled by 2 side offset springs attaches to frame [illegible] no [illegible] old muffler special bracket eliminates vibration and side play, exhaust pipe [illegible] automatically [illegible] instruction book [illegible] [illegible] hardware included [illegible] in carton

Each $4.25



Goodrich [illegible] cap [illegible] and adjustment pressed steel shell, quick hot sparks. [illegible]

4K5589—1 in box Ea $1.15

MUFFLER

4K3356—22 gauge 12x6 1/8 sheet steel cylinder reduces exhaust to gentle purr and [illegible] [illegible] [illegible]

FOR FORD CARS

TRANSMISSION LINING SETS

3 strips of [illegible] with brass rivets, made with oils wire to prevent short circuit.

"Thrift" [illegible] Set 15c

MALLEABLE IRON BRAKE SHOES

Heavy manganese iron [illegible] 11/16 inch. 1 set in box.
4K6830—1 pr. unlined. Transp. Out
4K6827—2 pr. unlined. Set 72c
4K4041 Fabric lined. Set, 1.15

STEEL BRAKE SHOES

4K6828 - Non-Adjustable asbestos lined, fits any model [illegible] drum. Set $1.75
4K4821 [illegible] Set $1.85

STAR VALUE

[illegible] 1 set in box. Set 65c

BEARDSLEY "NEVER-SLIP" VALVE LIFTERS

"Bosco" [illegible] fiber to be [illegible] wear high quality lining.
4K3813—1 set in box. Set $1.25

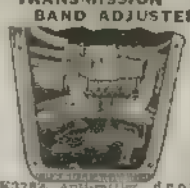
4K4871 For [illegible] If not [illegible] Each, 95c

TRANSMISSION LINING SETS

"Scandinavia" [illegible] made of [illegible] with fabric especially hard dried to resist heat, oil and grit. Complete with brass rivets for attaching.
4K5704 1 set in box. $1.75

Cork Insert—Cures [illegible] by at [illegible] gives a [illegible] wears three sets of ordinary linings, nationally advertised.
4K5739—1 in pkg. Set $2.25

"VELVET GRIP" TRANSMISSION BAND ADJUSTER

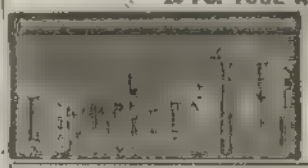


4K3784 Anti-rattle drop forged and ground, hangers stamplugs with ¼ in. flange stops annoying, [illegible] rattle and creak. [illegible] Set $2.95

TRANSMISSION BAND ADJUSTER

4K3784 Cold rolled [illegible] Set $2.95

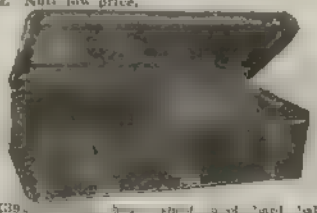
14 PC. TOOL KIT



4K1721 - 14 pc. tools are [illegible] workmanship. No tool kit on the [illegible] 14 in pouch. $3.96

BLACK ENAMELED STEEL TOOL BOX

A large well made tool box that will readily sell. Note low price.



4K39[illegible] [illegible] Set $1.85 1.79

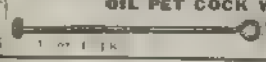
DROP FORGED WRENCH SET

4K4608 [illegible] 12 sizes [illegible] case [illegible] $2.35

RAY SOCKET WRENCH SET

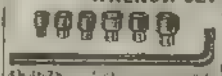
4K5841 [illegible] case [illegible] comprises:
1 Special Oval Socket for Ford main bearing bolts.
1 Reversible Ratchet Handle.
1 Screw Driver Bit
[illegible]
1 Square Socket [illegible] Set $5.85

OIL PET COCK WRENCH



4K4046 [illegible] in long, ¾ in diam. black enameled. Doz. 95c

7 PC. SOCKET WRENCH SET

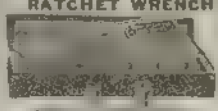


4K4635 [illegible] per) $1.10

MOSSBERG WRENCH SET

4K3844—Mossberg [illegible] set of 5 [illegible] steel socket, each end. fits a [illegible] bag. 1 set in bag. Set $3.45

LANE'S UNIQUE RATCHET WRENCH



4K1695 [illegible] throughout, [illegible] from Bessemer steel case hardened [illegible] 1 inch [illegible] 1 in extension bar 6 sockets to fit all nuts and bolt heads [illegible] leather case. SET (10 pcs.), $2.95

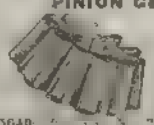
TOOL STEEL BALLS

Made from high grade tool steel and are recommended for heavy service guaranteed to be free from flaws and accurately ground. Each ball in thrift proof screw top container.
4K5668 - ⅛ in. 250 in box. Box $1.35
4K5209— [illegible] in. 100 [illegible] Box $1.70

ASSTD. SPRING COTTERS

4K3264—Special Ford Assortment. Asst. as follows, 8 [illegible] Total 120. Each asst. in screw top floor can. Doz. in set $1.00

DRIVE SHAFT PINION GEAR



4K3648 [illegible] 750 R.P. [illegible] first class stock. 1 in pkg. Each $1.15

RADIATOR CAPS

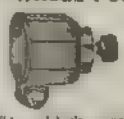
Standard [illegible] radiator cap all metal, nickeled finish
4K3501—1 in pkg. Each, 12c

"Peerless" [illegible] leaf is nickeled 1 [illegible] strength [illegible] 1 in pkg. Each 18c Lots of 25 14c

HUB CAPS

Made from heavy gauge solid brass, guaranteed to fit all Ford cars. ½ inch in pkg.
4K4467—Right enameled [illegible] Each $1.10
4K4377—Polished [illegible] Each 12c

ADJUSTABLE WHEEL PULLER

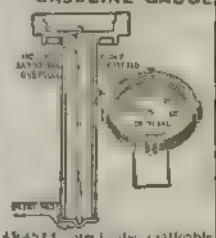


4K4684 [illegible] each grade cold [illegible] quick [illegible] bolt will not strip the [illegible] 1 in pkg. Each 42c

CRANK CASE OIL GAUGE

4K4871 — Glass sight oil feed [illegible] brass [illegible] of gauge shows level of oil [illegible] 1 in box. Each 58c

FILLER CAP GASOLINE GAUGE



4K4861 [illegible] adjustable [illegible] contains etched dial and [illegible] to box. Each 95c

PARTS FOR FORDS

We are prepared to furnish exact duplicates of various Ford parts, bolts, screws, etc., as listed below. All parts shown are interchangeable with the standard Ford parts of the same numbers.

SPECIAL NOTE: All parts sold are strictly guaranteed. The parts we sell are workmanship and materials. These parts are not to be compared with good that are sold for less money and which are inferior quality. All [illegible] are made of [illegible] and are sold [illegible] with part [illegible]

			Box
4K8006—Ford No.	2810	Axle Housing Cap	$0.35
4K8002— " "	2505-7	Bolt & Nut	.25
4K8040— " "	2588	Brake gear coil Distance Plate	.15
4K8051— " "	2704	Stationary Cone	.85
4K8— " "	2705	Adj. Cone Right Thread	.95
4K8— " "	2707	Spindle Nut Right	.95
4K8— " "	2718A	Axle Housing Spindle Cover Rd. Bit	1.15
4K8057 " "	2710	Bolt	1.85
4K8— " "	2805	Inner Race	1.55
4K8074— " "	2806	Outer Ball Retainer	.15
4K8075— " "	2807	Inner "	.15
4K8076— " "	2808	Dust Ring	.20
4K8077— " "	2816B	Rear Hub Key for Taper Axle	.20

			Box
4K8083—Ford No.	3008	Cyl. Head Cap Screw	$0.50
4K8085 " "	3008	" " Outlet Conn. Screw	.35
4K8095— " "	3085	Crank Shaft Bearing Bolt Nut	.40
4K8106— " "	3092	Valve	1.35
4K8280— " "	6781	Switch Plug for Metal Box Coil	.60

FOR FORD CARS

HEADLIGHT ASSEMBLY

4K4587 [illegible] black enameled [illegible] Each $5.25

MAGNETO SPOTLIGHT

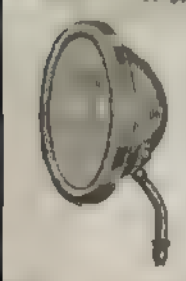
4K7881—Connects direct to [illegible] battery is mounted 7 in door, 5¼ in inside, 6½ in glass. 3 in. rear water-proof mirror, pressed steel bracket. 1 in box, 3 lbs. Part $3.95

TAIL LAMP ASSEMBLY

4K4339—This [illegible] Each $1.35

ELECTRIC HEAD LAMPS

4K4340—[illegible] Each $4.25



4K4841—For 1915 and later models. 9 in. diam. special [illegible] Pr $4.65

DOUBLE BULB HEADLIGHT

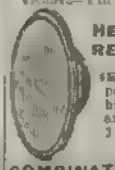
4K4705—For all 1915 and later models. [illegible] Pr $5.95

PARTS FOR FORD LAMPS

Oil Font with Burner Complete for tail and side lamps, black enameled 4K4349—1 in box. Each 65c

Door Only—For 1915 and later models, 9 in. black enameled. [illegible] 1 in box Each 42c

Door and Glass—For [illegible] black enameled door. 4K4342—1 in box Each 58c



HEADLIGHT REFLECTORS

4K5686—Drawn parabola shape, highly polished and silver plated 1 pr. in box. Pr $1.65

COMBINATION ELECTRIC TAIL LIGHT & LICENSE HOLDER

4K4539—9½ to [illegible] ed bracket, 3 in. lamp with removable ruby semaphored [illegible] connected to [illegible] Tungsten bulbs, dustproof 1 in box Each 89c

ELECTRIC TAIL LAMP

For 1915 and later models

4K4338—[illegible] Lens [illegible] able semaphore ruby lens, off and on switch [illegible] Tungsten bulbs, white side [illegible] Each 59c

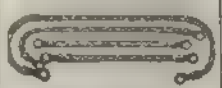
OIL TAIL LAMP

4K4843—For late model Fords 9¼ in high [illegible] round style all black enamel [illegible] steel body, all parts riveted no solder used. Special [illegible] cars, crystal lens on the side, [illegible] silent screw top air chamber [illegible] Each $1.95

HEADLIGHT INTENSIFIER

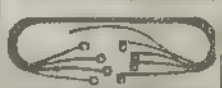
4K3786—This Intensifier plug socket is an appliance that will increase the light of your Ford headlights 100 p. c. Simple to construction and fully guaranteed 1 in carton Each 85c

WIRING OUTFITS

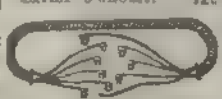


Spark Plug Set—Box [illegible] rose [illegible] Each $4 75

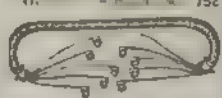
4K41 [illegible] Switch plug Set 32c



Ignition Harness, [illegible] gauge copper wire [illegible] rubberized braided cover each wire with copper terminals and different color covered braid, oil and waterproof jacket. 1 set in pkg.
4K4144—4 wire set. Set 55c
4K414[illegible] 5 wire set for electric light. Set. 58c
4K4158—6 wire set. " 72c



Ignition Harness, Metallic [illegible] cover and [illegible] cover insulated in [illegible] tube exceptionally durable, impervious to moisture and oil waterproof 4K [illegible] 75c



Ignition Harness, Loom covered [illegible] 4K4[illegible] 85c
4K4133—6 wire set for Fords equipped with storage battery and self starter wires [illegible] 95c

DASH COIL UNIT—

For Ford Cars or Fordson Tractors

4K0734—In this Kingston coil only high grade materials are [illegible] every respect. A replacement that will [illegible] demand. 1 in carton. Each $2.15

SWIVEL JOINTS

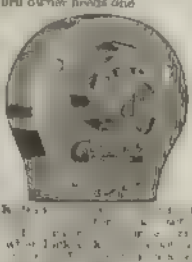
For Stewart Speedometer

4K1851—For [illegible] each swivel. 1 in box. Each $1 85

PERRY STEERING WHEEL LOCK

4K5500—These locks are approved by Underwriters [illegible] Each $4 75

GOODRICH SWITCH WITH YALE LOCK

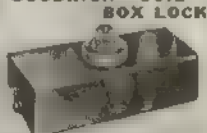


4K [illegible] Each $2.65

K. W. AUTOLOCK

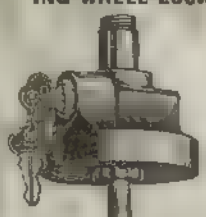
4K5643—Approved by Insurance Underwriters, who allow a 15% reduction on insurance [illegible] ily Installed 1 in box with directions Each, $2.80

"GOODRICH" COIL BOX LOCK



4K3780 — Approved by Board [illegible] writers. Fits any Ford with metal coil box replaces old top, lock operates levers which lock vibrator [illegible] cover for Ford cars. 1 in box Each $5.95

"SIMPLEX" STEERING WHEEL LOCK



4K5677—A real protection against theft. Perfect [illegible] ing mechanism die cast thick walled polished alu[illegible] wheel [illegible] which [illegible] [illegible] [illegible]

FOR FORD CARS

"FAULTLESS" SLIP SEAT COVERS
Hand Tailored

Tan Jeans. [illegible] quality [illegible] set expert top and [illegible] back with [illegible] for [illegible] adjusting
4K3036—Touring models, 1915-16 ..... Set, $11.50
4K3037— " " 1917 & later " " 13.50
4K3038—Roadster " 1915-16 " " 8.50
4K3039— " " 1917 & later " " 9.50

Gray Bedford Cord. Handsome [illegible] that will give unusual wear. Seats tailored with matching bound edges. Set complete in box with all attachments. Top slip not included.
4K3040—Touring models, 1915-16 ..... Set $14.50
4K3041— " " 1917 & later " " 14.50
4K3042—Roadster " 1915-16 " " 9.50
4K3043— " " 1917 & later " " 9.50

RUBBER FLOOR MAT

4K4584—Fits 1915 and later models. Fits earlier models [illegible] made of high grade rubber, reinforced at heel, wearing spots, slots for lever and pedals. Finished edge, same grade mat as furnished with regular Ford equipment. [illegible]
Each, 95c

"ALL WEATHER" PROTECTOR

4K5748 — Insulates the floor from corrosive heat of the engine, drives the hot air back beneath the car, closes lever [illegible] with running of the car. Set consists of metal and rubber pedal slot covers and emergency brake slot cover. All steel parts black japan. Each set in carton with instruction [illegible]
Set, $1.15

CELLULOID REAR CURTAIN LIGHTS

For replacing old or broken lights. Attached in 3 minutes.

4K4397—Size 6½x11 in. For 1917 and 1918 Ford cars. Lots of 12 or more, Each, 22c
Less quantity, 24c

4K4971—Size 11x13 in. For 1914, 1915 and 1916 Ford cars. 1 in pkg. Each, 40c
Lots of 12 or more, " 45c

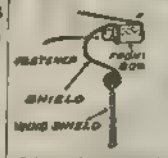
HASTINGS REAR GLASS WINDOW SET
For 1917 to 1928 Models

STAR VALUE

4K5870—Best grade [illegible] Set consists of [illegible] Set.
$1.85

ANTI-DRAUGHT SHIELD

Fits between windshield and top of car. Keeps out snow, rain or wind.

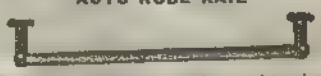


4K4195—[illegible] oz. black enameled [illegible] spring [illegible] for fastening to windshield curtain fastener [illegible] that fasten to top. Fits any Ford car. Each 45c

COIL BOX PROTECTOR

4K3757—Heavy [illegible] top [illegible] fits [illegible] over coil box [illegible] to [illegible] Each 65c

AUTO ROBE RAIL



4K4498—24 in. spring [illegible] rail to hold wood core covered with chased imitation leather, wood leather strap hangers & nickel plated fixtures, 4 in. cap space [illegible] pkg. Each 65c

SPECIAL PAINTING OUTFIT

Contains in every [illegible] metal surfaces every [illegible] finish to make it [illegible] glass [illegible] any other [illegible] especially [illegible] we [illegible] of [illegible] no experience [illegible] required.

4K3356—Consists of [illegible] Body Black [illegible] Top Black [illegible] Gear Red [illegible] Hood & Fenders [illegible] Striping Gold [illegible] Lettering [illegible] 1 camel hair striping brush, instruction [illegible] 1 set in box... Set, $3.95

GORDON JIFFY CUSHION SLIPS

A few sizes fit 90% of cars. Adjustable [illegible] top and adjusts to straps under cushions. Easily removed. Material [illegible] Each set in box with tacks and directions.

Gordon [illegible] Springs, Hair & Moss, All [illegible] Each set in box

4K7935—(Mfrs. Model A) Ford Sedan rear seat. Each $2.15
4K7939—(Mfrs. Model J) for all individual front seats except Ford Sedan. Each, $2.15
4K7930—(Mfrs. Model A) Ford front seat, touring & runabout. Each, $2.75
4K7931—(Mfrs. Model B) Ford rear seat to ride. Each $2.75
4K7933—Mfrs. Model [illegible] to 44 in. rear seat. Ea. $3.25
4K7934—Mfrs. Model [illegible] to 44 in. front seats. Each, $3.25
4K7938—(Mfrs. Model [illegible] to 44 in. Front & Rear Compartment. Each, $3.25
4K7937—Mfrs. Model [illegible] to 48 in. rear seat. Each, $3.25

"FAULTLESS" TIRE COVER

4K5054—30x [illegible] For tires of demountable rims or with [illegible] regular black and white thread design. Fitted with straps and buckles which makes adjusting much easier than old style. Dust proof [illegible] Finished beautifully in [illegible]
Each $2.25

RUBBER PEDAL PADS

4K3405—Snap-on style, [illegible] pressed [illegible] Each [illegible] Postp. Lots of 12 sets or more [illegible]

CUSHIONS

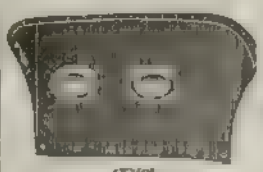
[illegible] Top back [illegible] row of buttons, [illegible] Each cushion [illegible] and covered in best class [illegible]

4K6790—For Roadster Seat
4K6791—For Front Touring Seat. } Each $8.50

SIDE AND REAR CURTAINS—For 1916 and Later Models

4K3504

4K3505



4K3501

Back Curtain—One piece with regulation lights. Made of 32 oz. rubber. Complete with all tacks, binding and fasteners. Can be applied in a few minutes.
4K3504—1 in box. Each, $2.75

Back Curtain—One piece with two double strength glass lights 14x18 in. In triple measurements spanned metal frame. Made of 32 oz. rubber. Complete with all fasteners.
4K3506—1 in carton. Each $4.15

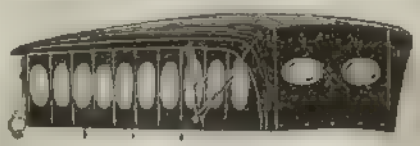
Side Curtains—Equipped with [illegible] Made of [illegible] same as original Ford curtains. All eyelets and fasteners necessary to [illegible] curtains are furnished [illegible] in carton.

4K3502—For Ford Roadster, SET of 2 pcs. $7.75
4K3503—For Ford Touring Top, 4 pcs in set. Set, $10.50

TOURING CAR ONE MAN TOPS

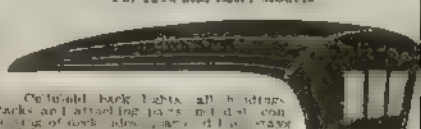
4K8783—Made of heavy mohair, built on four bolt frame. Curtains not included. 1 in crate. Each $23.50

For 1918 and Later Models



4K9785—Black motor cloth, plate glass window lights in rear curtain, [illegible] grade [illegible] frame, latest style curtains. Each $42.50

TOP RECOVERS
For 1916 and Later Models



Celluloid back lights, all [illegible] tacks and attaching parts [illegible] of [illegible] and back curtains [illegible] to be drawn over [illegible] and ta[illegible] or [illegible]

4K9117—BLACK rubber cloth roadster top. Each $ 7.9
4K9110—BLACK [illegible] 9.75
4K3040—TAN heavy [illegible] 12.5
4K4041—BLACK motor cloth [illegible] 14.9

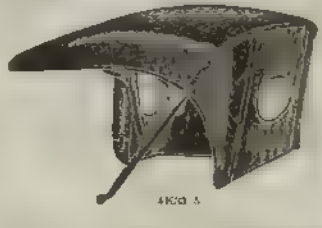
ONE MAN TOPS—For Touring Cars and Roadsters
For 1916 and later models

Well made tops of reliable and weather-resisting materials.

Touring Car—Top [illegible] of good grade [illegible] material improved style, four bolt frame equipped with complete set latest style curtains. 4K9784—1 in crate. Each **$32.50**

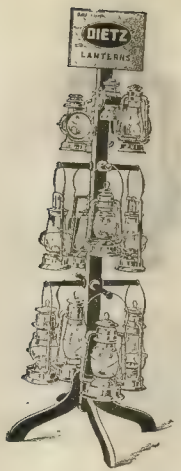
Touring Car—Improved style made of heavy grade mohair built on four bolt frame equipped with latest style jiffy curtain. 4K[illegible]. Each **$35.00**

Roadster—[illegible] covered with [illegible] rubber [illegible] well made [illegible] at this price. 4K3[illegible]—1 in pkg. Each, **$26.00**



LANTERNS

FOR KEROSENE



DIETZ LANTERN ASSORTMENT

With Display Stand

The Display Stand is made of Fumed Oak and is attractive in itself; Occupies but little space, yet it is Substantially Constructed and makes an imposing appearance.

Designed to Carry a Good Assortment of Saleable and Profitable Dietz Hand and Driving Lanterns in such manner as to place them just where they will catch your customer's eye—a Dietz Display Stand in a Show Window will Sell Lanterns from the street—the Modern Way to Sell Lanterns—A Regular Business Getter—a Silent Salesman.

12 PRIZE WINNERS

One "Octo" Driving Lantern
One "Junior" Brass Lantern
One "Little D-Lite Wizard" Lantern
One "Monarch" Lantern
One "No. 2 Wizard" Lantern
One "No. 2 Large Fount Wizard" Lantern
One "Eureka" Driving Lantern
One "Junior" Wagon Lantern
One "Victor" Lantern
One "Buckeye" Dash Lantern
One "No. 2 D-Lite" Lantern
With Brass Fount and Dome
One "No. 2 Blizzard" Lantern

Per Assortment

No. 12—Contains 12 Lanterns and Display Stand; Total Height, 70 in.; Spread at Base, 29 in. $25 00
Shipping Weight about 85 lbs.

LITTLE D-LITE WIZARD

Cold Blast

Height Overall . . . . . 11⅞ in.
Volume of Light by Test . . . . . 6 C. P.
Size of Wick . . . . . ⅝ in.
Fount Capacity . . . . . 18 Hours
Globe . . . . . Little Short
Burner . . . . . No. 211 Wing-Lock
Per Dozen

No. 34—With **Bright Tin Fount** . . $15 10
One Dozen in a Case
Weight per Dozen about 33 Lbs.

D-LITE WIZARD

Cold Blast

Height Overall . . . . . 13¾ in.
Volume of Light by Test . . . . . 10 C. P.
Size of Wick . . . . . 1 in.
Globe . . . . . Standard Short
Fount Capacity . . . . . 20 Hours
Burner . . . . . No. 272 Wing-Lock
Per Dozen

No. 362—With **Bright Tin Fount** . . $18 80
No. 362B—With **Brass Fount and Top** 25.00
Half-Dozen in a Case
Weight per Dozen about 50 Lbs.

LARGE FOUNT D-LITE WIZARD

Cold Blast

Height Overall . . . . . 13¾ in.
Volume of Light by Test . . . . . 10 C. P.
Size of Wick . . . . . 1 in.
Globe . . . . . Standard Short
Fount Capacity . . . . . 40 Hours
Burner . . . . . No. 272 Wing-Lock
Per Dozen

No. 38—Bright Tin, with Extra Large Fount $20 80
Half-Dozen in a Case
Weight per Dozen about 56 Lbs.

SPECIAL FEATURES—Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Raising Cone Burner; Patent Reinforced Tubes; Patent Globe Lift on Inside of Frame; Large Oil-Filler; Patent Locking Short Globe and Extra Large Double-Seamed Solderless Dome-Shaped Oil-Fount.

LANTERNS
FOR KEROSENE

BLIZZARD

(Cold Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Rising Cone Burner; Patent Reinforced Tubes; Patent Globe Lift on Inside of Frame; Large Oil-Filler; Patent Locking Globe and Double-Seamed Solderless Dome-Shaped Oil Fount.

Height Overall, 11¾ in.; Volume of Light by Test, 10 C. P.; Size of Wick, 1 in.; 20 Hours' Fount Capacity; No. 0 Cold Blast Globe; No. 273 Patented Tinned Steel Burner.

	Per Dozen
No. 302—Bright Tin Fount	$18 80
No. 3028—Brass Fount and Top	25 50

Half-Dozen in a Case.
Weight per Dozen about 52 Lbs.

LARGE FOUNT BLIZZARD

(Cold Blast)

Dietz Security Standing Bail, Patented Brass Eyelets Patented Safety (Wing-Lock) Rising Cone Burner, Patent Reinforced Tubes, Patent Globe Lift on Inside of Frame; Large Oil-filler, Patent Locking Globe and Double-Seamed Solderless Dome-Shaped Oil Fount.

Height Overall, 13 in.; Volume of Light by Test, 10 C. P.; Size of Wick, 1 in.; 40 Hours' Fount Capacity; No. 0 Cold Blast Globe; No. 273 Patented Tinned Steel Burner.

	Per Dozen
No. 323—Bright Tin Fount	$20.80

Half-Dozen in a Case.
Weight per Dozen about 60 Lbs.

CRESCENT

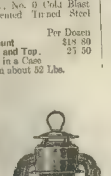
(Cold Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Burner; Patent Globe Lift on Inside of Frame; Large Oil-Filler and Double-Seamed Solderless Oil Fount.

Height Overall, 13 in. Volume of Light by Test, 10 C. P.; Size of Wick, 1 in.; 18 Hours' Fount Capacity; No. 0 Cold Blast Globe; No. 562 Patented Tinned Steel Burner (Lock-Wing Cone).

	Per Dozen
No. 282—Bright Tin Fount	$17 00

Half-Dozen in a Case
Weight per Dozen about 46 Lbs.



JUNIOR

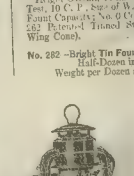
(Cold Blast.

Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Burner, Patent Reinforced Tubes, Patent Globe Lift on Inside of Frame; Large Oil-Filler and Double-Seamed Dome-Shaped Solderless Oil Fount.

Height Overall, 12 in.; Volume of Light by Test, 9 C. P.; Size of Wick ⅝ in.; 13 Hours' Fount Capacity; Junior Globe; Patent Tinned Steel Burner (Wing-Lock Cone) No. 201.

	Per Dozen
No. 27—Bright Tin	$13 90

One Dozen in a Case; Weight per Dozen about 34 Lbs



JUNIOR WAGON

(Cold Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Burner; Patent Reinforced Tubes; Patent Globe Lift on Inside of Frame; **Magnifying Bullseye Lens, Ruby Rear Lens**; Combination Holder; Large Oil Filler and Double-Seamed Solderless Dome-Shaped Oil Fount with Safety Oil Well.

Height Overall, 12¾ in.; Light by Test 10 C. P.; Size of Wick, ⅝ in.; 13 Hours' Fount Capacity; Junior Globe; Patented Tinned Steel Burner Wing-Lock Cone No. 201. Size of Ruby Lens, 2½ in.; Size of Magnifying Bullseye Lens, 2½ in.

	Per Dozen
No. 50—Black Enameled	$24 00

Half-Dozen in a Case. Weight per Dozen about 52 Lbs

LANTERNS

BURNS KEROSENE

MONARCH

(Hot Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent (Wing-Lock) Burners; Patent Reinforced Tubes; Patent Positive-Locking Globe Lift; Large Oil-Filler and Double-Seamed Solderless Dome-Shaped Oil Fount.

Height Overall, 13¼ in.; Volume of Light by Test 4 C. P.; Size of Wick, ⅝ in.; 18 Hours' Fount Capacity; No. 0 Globe; No. 411 Patented Tinned Steel Burner (Wing-Lock Cone).

Per Dozen

No. 12—Bright Tin $12.70

One Dozen in a Case
Weight per Dozen about 38 Lbs.

ROYAL

(Hot Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent (Wing-Lock) Burner; Patent Reinforced Tubes; Patent Positive-Locking Globe Lift; Large Oil-Filler; Double Seamed Solderless Oil Fount.

Height Overall, 13½ in.; Volume of Light by Test, 3 C. P.; Size of Wick, 1 in., 20 Hours' Fount Capacity; No. 0 Globe. No. 402 Patented Tinned Steel Burner (Wing-Lock) Cone.

Per Dozen

No. 202—Bright Tin $15 70

One Dozen in a Case
Weight per Dozen about 40 Lbs.

LITTLE STAR

(Hot Blast)

Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Burner; Patent Positive-Locking Globe Lift; Large Oil Filler and Double-Seamed Solderless Dome-Shaped Oil Fount.

Height Overall, 11 in.; Volume of Light by Test, 3 C. P.; Size of Wick, ¾ in.; 12 Hours' Fount Capacity; U. S. Globe; No. 411 Patented Tinned Steel Burner (Wing-Lock Cone).

Per Dozen

No. 6—Bright Tin $12.50

One Dozen in a Case
Weight per Dozen about 27 Lbs.

BUCKEYE DASH

(Hot Blast)

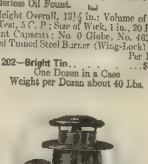
Dietz Security Standing Bail; Patent Brass Eyelets; Patent Safety (Wing-Lock) Burner; Patent Positive-Locking Globe Lift; Magnifying Bullseye Lens; Large Oil-Filler and Double-Seamed Solderless Dome-Shaped Oil Fount with Safety Oil Well.

Height Overall, 13¼ in.; Reflected Light by Test, 10 C. P.; Size of Wick, ⅝ in.; 19 Hours' Fount Capacity; No. 0 Globe; No. 411 Patented Tinned Steel Burner (Wing-Lock Cone); Size of Magnifying Bullseye Lens, 2¼ in.

Per Dozen

No. 42—Black Enameled $18 50

Half-Dozen in a Case
Weight per Dozen about 52 Lbs.



UNION DRIVING

Complies with all Night-Driving Laws; It is Made with Double Sockets for Right and Left Hand and a 2', In. Ruby Rear Lens; A Spring Clip Permits Its Use as a Dash Lantern and it has a Hand Bail.

Cold Rolled Steel Body; Patent Long Cone Burner; Positive-Locking Fount; Dash Spring Clip; Large Ruby Rear Lens; Optical Door Lens.

Height Overall, 11½ in.; Reflected Light by Test, 30 C. P.; Size of Wick, ⅝ in.; 10 Hours' Fount Capacity; Nickel Plated Brass Burner (Long Cone); Size of Door Lens, 5⅝ in.; Size of Ruby Lens, 2¼ in.

Per Dozen

No. 80—Black Enameled; Optical Lens $61 50

Half-Dozen in a Case
Weight per Dozen about 74 Lbs.

ACME INSPECTOR'S

(Hot Blast)

Made to Endure Rough Usage; the Frame and Hood are Heavily Braced and a Strip of Flat Steel, well Riveted, reinforces the frame. Provided with a Grip Handle set at Right Angles to protect the light under cars, etc., and also a hand Bail.

Height Overall, 15½ in.; Reflected Light by Test, 20 C. P.; Size of Wick, ⅝ in.; 20 Hours' Fount Capacity; No. 0 Globe. No. 551 Tinned Steel Wing-Lock Burner (Long Cone); 5 in. Silvered Glass Reflector.

Per Dozen

No. 110—Bright Tin $34.00

Half-Dozen in a Case
Weight per Dozen about 74 Lbs.

LANTERNS

STANDARD RAILROAD

(For Signal Oil)

Made with a Double Guard and a Substantial Stamped Base and Top; The Globe is removed through the frame by turning back the hinged top; The Wing-Lock (Slip Collar) Burner is firmly attached to the font by patented locking lugs and the base containing the fount fastens to the frame by a patented positive-locking device operated by a twist of the hand. Fount has a safety oil well. Unexcelled for Strength, Long Life, Ease in Cleaning, Filling, Lighting and Regulating. Dependability in making signals.

Height Overall, 10 in.; Volume of Light by Test, 2 C. P.; Size of Wick 1 in.; 24 Hours' Fount Capacity; No. 39 Globe; No. 2 Ratchet Burner.

	Per Dozen
No. 39—Bright Tin	$21 80

One Dozen in a Case
Weight per Dozen, about 48 Lbs.

STEEL-CLAD RAILROAD

(For Signal Oil)

Made with a Frame of Stamped Steel with a Double Wire Guard and Stamped Fount and Top; The Globe is removed through the frame by turning back the hinged top; The Wing-Lock (Slip Collar) Burner is firmly attached to the fount by patented locking lugs and the fount fastens to the frame by a patented positive-locking device operated by a twist of the hand. Fount has a safety oil well Unexcelled for Strength, Long Life, Ease of Cleaning, Filling, Lighting and Regulating. Dependability in making signals.

Height Overall, 10 in.; Volume of Light by Test, 2 C. P.; Size of Wick, 1 in.; 24 Hours' Fount Capacity; No. 39 Globe; No. 2 Ratchet Burner.

	Per Dozen
No. 39SC—Bright Tin	$23 20

One Dozen in a Case
Weight per Dozen about 50 Lbs.

"VESTA" RAILROAD

(Cold Blast; Burns Kerosene)

Burns Kerosene; Makes All Railroad Signals Without Blowing Out

The Globe is removed through the frame by turning back the hinged top; the Fount locks to the body of the lantern by a patented positive-locking device operated by a twist of the hand. The flame is regulated from outside of the globe. Fills Every Demand for an ideal Railroad Hand Lantern. It is Easily Cleaned, Filled and Lighted, is Economical and positively makes all signals.

Height Overall, 11 in.; Volume of Light by Test, 3 C. P.; Size of Wick, ¾ in.; 16 Hours' Fount Capacity; Vesta Globe; No. 700 Patented Burner.

	Per Dozen
No. 105—Bright Tin	$27.00

One Dozen in a Case
Weight per Dozen about 50 Lbs.

SWITCHMAN'S

(For Signal Oil)

Small and Compact; with Insulated Fibre Bail which can be locked into a Stiff Bail for Signalling. Is Light in Weight, Easy to Clean, Easy to Fill, Light and Regulate. Flame is Regulated from Outside.

Height Overall, 9 in.; Volume of Light by Test, 2 C. P.; Size of Wick, 1 in.; 24 Hours' Fount Capacity; No. 39 Globe; No. 2 Ratchet Burner.

	Per Dozen
No. XLCR—Bright Tin	$32.05

One Dozen in a Case
Weight per Dozen about 40 Lbs.

SWITCHMAN'S

(For Signal Oil)

Carries the Very Latest Improvements—Perfection Ventilation, Encased Oil Pot, Outside Wick Raiser, Removable Top Globe Holder, Heavy Steel Globe Seat; Easy Detachable Bent Wood Rund Bail. Height Overall, 8¾ in.; Volume of Light about 2½ C. P.; Size of Wick 1 in.; 20 Hours' Fount Capacity; No. 39 Globe.

	Per Dozen
No. 90—Bright Tin	$36 00

One Dozen in a Case
Weight per Dozen about 30 Lbs.

FIRE DEPARTMENT

(Hot Blast; Burns Kerosene)

Heavily Constructed and will Burn in all situations where there is air to support human life. Equipped with Reinforced Bail, Apparatus Hook, Hinge-cone Burner, Hinged Wind and Water Guard Steel Lined Oil Fount with Safety Oil Well and Large Oil-Filler.

Height Overall, 14½ in., Volume of Light by Test, 4 C. P.; Size of Wick, ⅝ in. 12 Hours' Fount Capacity; No. 0 Globe; No. 421 Hinged Cone, Tinned Steel Burner.

	Per Dozen
King—Bright Tin, with Nickel Plated Copper Fount	$74 00

One Dozen in a Case
Weight per Dozen about 73 Lbs.

LANTERNS

BURNS KEROSENE

SUPREME
Holds Oil for 48 Hours Continuous Burning; 10 C. P. Light

Made of Extra Heavy 135 Lb. Charcoal Tin; Extra Large Square Top Fount, with Concave Bottom, and Brass Screw Cap 3⅝ in. Diameter, with Pressed Paper Washer; Round Tubes, Double Seamed and Beaded, Lift-Up Hood, with Stiff-Spring, Standing Wire Bail; Short Globe; Side Lift.

Per Dozen

No. 182—Fount Holds Oil for 48 Hours' Continuous Burning, Gives a Light of 10 Candle Power, Height with Ball and Ring Down, 14¾ in.; Diameter of Base, 7½ in.; Special No. 2 Burner with 1 in. Wick; Standard Short Globe, Weight per Dozen about 33 Lbs. $18 00

Half-Dozen in a Case

BEACON DASH

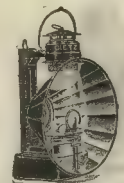
Hot Blast: Bright Tin, Square Tubes, Bright Tin Hood 5 in. Deep; 5 in. Silvered Glass Reflector; Strong Spiral Spring Dash Attachment; Wire Bail; Is an Excellent Lantern for Stable Use and is Much Used for Night Driving.

Per Dozen

Beacon Dash No. 1 Long Cone Burner, with ⅝ in. Wick; No. 0 Globe; Height 13¼ in.; Fount Holds Oil to Burn 20 Hours, giving a 7 C. P. Light..... $22.00

Weight, 64 Lbs. per Dozen

Half-Dozen in a Case



BEACON LIGHT

This Lamp is Designed for Lighting Factories, Mills, Foundries, Stores, Livery Stables, Warehouses; Can be filled, lighted, regulated and extinguished without removing the Globe.

Per Dozen

No. 20—Cold Blast Principle, Will Not Blow Out; Heavy Tin, Blue Japanned; Reflector 12 in. Diameter, 7 in. Deep; Bullseye Flint Lens Attached to the Perforated Plate Inside of Globe. No. 2 Tubular Burner with 1 in. Wick; Cold Blast Globe; Fount Holds Oil to Burn 25 Hours..... $30 00

1½ Dozen in a Case; Weight per Dozen, 104 Lbs.

GLOBE STREET LAMPS

FOR KEROSENE

Not Affected by Strong Winds

GLOBE STREET
With Bail to Hang

Each

No. 3S—22½ Candle Power, 27 in. High, Bottom Lift, can be Regulated to Burn 4, 6, 8, 12, 16, 20 or 24 Hours, with Automatic Extinguisher, No 3 Globe, No. 3 Burner, for 1½ in. Wick, Oil Capacity for 24 Hours.....$6.00

One in a Case; Weight 25 Lbs.

GLOBE HANGING
With Socket for Post or Bracket

No. 3H—22½ Candle Power, 32 in. High, Bottom Lift, can be Regulated to Burn 4, 6, 8, 12, 16, 20 or 24 Hours, with Automatic Extinguisher, No. 3 Globe, No. 3 Burner, for 1½ in. Wick, Oil Capacity for 24 Hours.....$6.00

MARINE SIGNAL LIGHTS

Galvanized Iron Frames, Polished Reflector, Fresnel Glass Globes; Burn Kerosene; Guaranteed to Burn in any and all Weather Conditions

SIDE LIGHTS

Each

No. 9—Green, Starboard or Right Side Light, 6⅛x5⅝ in. Globe; No. 1 Burner, ⅝ in. Wick; Extreme Height 16¼ in.; Width of Base 5⅛ in.; Holds Oil to Burn 12 Hours.....$9.00

No. 9S—Red, Port or Left Side Light. Otherwise same as No 9..... 9.00

Weight About 8 Lbs. Each

BOW LIGHTS

Each

No. 14—Clear Globe, 6x6 in.; No. 1 Burner, ⅝ in. Wick; Height of Frame 9⅛ in., Extreme Height 16 in., Width of Base 8 in.; Holds Oil to Burn 12 Hours.....$5.75

Weight About 6½ Lbs. Each

ANCHOR LIGHTS

Each

No. 22—Clear Globe, 6x6 in.; No. 1 Burner, ⅝ in. Wick; Height of Frame 12 in., Extreme Height 17½ in., Diameter of Base 7 in.; Holds Oil to Burn 24 Hours. $5.25

Weight About 7 Lbs. Each

MISCELLANEOUS BRICKLAYERS' TOOLS

STEEL JOINTERS

Made of Tool Steel, Full Polished 8 Ins. Long, ½-in Diam at Center, Drawn Down to ¼-in. Point One Round End, One Diagonal Shape.

No. 402—Wt., Per Dozen, About 3½ Lbs. One dozen in a box. Per Dozen $8.20

PHILADELPHIA BRICK CHISELS

		Per Dozen	
No. 320—**Flat.** Best Cast Steel Size ¾ x ¾. Round Edge 12 Ins. Long		$12.00	$16.80
No. 320½—**Octagon.** Best Cast Steel.			
Size ¾ x 12		12.00	16.80
Size ¾ x 18		19.20	23.98
Size ¾ x 24		31.20	43.75

JOINT CHISELS

	Per Dozen	
No. 321—Phila. Best Cast Steel Flat	$13.00	$18.20

FRONT CHISELS

Philadelphia. Best Cast Steel.

No. 326—Width of Face, Ins.	3	3½	4
Per Dozen	$27.00	33.00	44.00
	$37.75	46.25	61.60

Half dozen in a box

SHINGLE OR CLAPBOARD CHISELS

15 Ins. Long. 2 Ins. Wide.

	Per Dozen	
No. 344—¼ In. Octagon	$22.00	$30.75

BRICKLAYERS' LINE PINS

	Per Dozen	
No. 331—Best Cast Steel, Warranted	$2.80	$4.00

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

MOLDERS' TOOLS

No. 16—Yankee

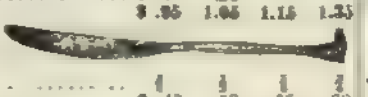
Width, Ins.	½	¾	¼	1
Each	$ .50	.55	.60	.70
	$ .95	1.05	1.15	1.35

No. 16—No. 2 Yankee

Width, Ins.	½	¾	¼	1
Each	$ .50	.55	.60	.70
	$ .95	1.05	1.15	1.35

No. 17—No. 2 Bench Lifter (Bent)

Width, Ins.	½	¾	¼	1
Each	$ .50	.55	.60	.70
	$ .95	1.05	1.15	1.35

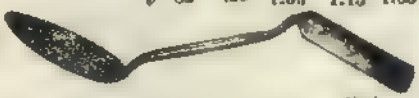


No. 18—No. 3 Bench Lifter

Width, Ins.	½	¾	¼	¾
Each	$ .45	.50	.55	.60
	$ .85	.95	1.05	1.15

No. 19 No. 3 Bench Lifter (Bent)

Width, Ins.	½	¾	¼	1
Each	$ .45	.50	.55	.60	.70
	$ .85	.95	1.05	1.15	1.35



No. 20—Leaf and Square—Special

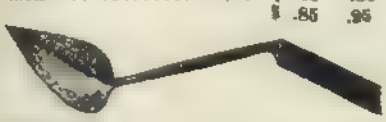
	Each	
10 Ins. Long, with Blades ¾ x 3 Ins. Double Curved Shank	$ .65	$1.25

No. 21—Heel Slick

	Each	
8 Ins. Long, with Blades ¾ x 2½ In.; Heel, ½ x ¾ In.	$ .65	$1.25

No. 22—Heart and Leaf

Width, Ins.	½	1	1¼	1½	1¾	2
Each	$ .45	.50	.60	.70	.80	.90
	$ .85	.95	1.15	1.35	1.50	1.70



No. 23—Heart and Square

Width, Ins.	½	1	1¼	1½	1¾	2
Each	$ .45	.50	.60	.70	.80	.90
	$ .85	.95	1.15	1.35	1.50	1.70

No. 24—No. 1 Taper and Square

Width, Ins.	½	1	1¼	1½
Each	$ .50	.55	.65	.75
	$ .95	1.05	1.25	1.45

No. 25—No. 2 Taper and Square

Width, Ins.	½	¾	1	1¼	1½
Each	$ .45	.50	.55	.65	.75
	$ .85	.95	1.05	1.25	1.45

No. 26—No. 3 Taper and Square

Width, Ins.	1
Each	$ .55
	$1.05

No. 27—Slick and Square Spoon

Width, Ins.	1¼
Each	$ .60
	$1.15

No. 28—Taper and Square Spoon

Width, Ins.	1	1¼	1½
Each	$ .55	.65	.75
	$1.05	1.25	1.45

No. 29—Slick and Oval Spoon

Width, Ins.	½	1	1¼	1½
Each.	$ .50	.55	.65	.75
	$ .95	1.05	1.25	1.45

No. 30—Heart and Square Spoon

Width, Ins	1	1¼	1½	1¾
Each	$ .50	.60	.70	.80
	$ .95	1.15	1.35	1.55

No. 31—Heart and Oval Spoon

Width, Ins	1	1¼	1½	1¾
Each	$ .50	.60	.70	.80
	$ .95	1.15	1.35	1.55

Nos. 32, 33 and 34—1, 2 and 3 Spoons

Width, Ins	1	1¼	1½
Each	$ .50	.60	.70
	$ .95	1.15	1.35

No. 35—Slick and Round

Width, Ins.	½	1
Each.	$ .50	.55
	$ .95	1.05

Not Carried in Stock. Can Only be Furnished by Shipping Direct From Factory.

MOLDERS' TOOLS

No. 37—Double Square.

Width, Ins.	½	¾	¾	1
Each	$ .50	.55	.60	.65
	$ .95	1.05	1.15	1.25

No. 38—Oval Dog Tail.

Width, Ins.	½	1	1½
Each	$ .50	.60	.70
	$ .95	1.15	1.35

No. 39—Column Slick.

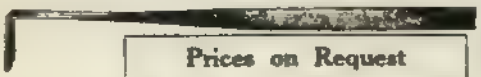
Width, Ins	½	¾	¼
Each	$ .50	.60	.70
	$ .95	1.15	1.35

No. 40—Flute.

Width, Ins.	½	¾	¾
Each	$ .50	.60	.70
	$ .95	1.15	1.35

No. 41—Bead.

Width Ins	½	¼	½	¾	¼x12
Each	$ .45	.50	.55	.60	.70
	$ .85	.95	1.05	1.15	1.35



No. 42—Lifter.

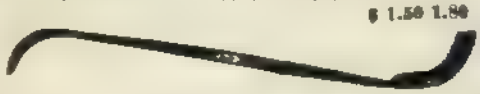
Prices on Request

Length, Ins		10	12	14	16	18	20
Width, Inches	¼ x	$ .40	$ .45	$ .50	$ .55	....	
	⅜ x	.45	.50	.55	.60	$ .65	
	½ x	.50	.55	.60	.65	.70	$ .75
	⅝ x	.55	.60	.65	.70	.75	.80
	¾ x		.65	.70	.75	.80	.85
	⅞ x		.70	.75	.80	.85	.90
	1 x			.80	.85	.90	.95
	1¼ x			.85	.90	.95	1.00

The above sizes are the standard sizes

No. 43—Hub Tool.

Width, Ins	½	1
Each	$ .80	.95
	$ 1.50	1.80



No. 45—Flange and Bead.

Width, Ins	½	¾	¾	1
Each	$ .80	.90	1.00	1.20
	$1.50	1.80	1.90	2.30

No. 46—Flange Lifter.

Width, Ins.	¼x14	¼x16	¼x14	¼x16	¼x14
Each	$1.05	1.10	1.10	1.15	1.15
	$2.00	2.10	2.10	2.20	2.20
Width, Ins	¼x16	¼x18	1x16	1x18	1x20
Each	$1.20	1.25	1.30	1.35	1.40
	$2.30	2.40	2.45	2.55	1.35

No. 47—Hub Lifter.

Width, Ins	¼x12	¼x14	¼x16	¾x14	¾x16	¾x18	1x16	1x18	1x20
Each	$ .65	.70	.75	.90	.85	.90	.95	1.00	1.05
	$1.25	1.35	1.40	1.50	1.60	1.70	1.80	1.90	2.00

No. 48—Box Lifter.

Size, Ins.	¼x14	¾x16	¾x18	¾x16	¾x18	¼x2
Each	$1.10	1.15	1.20	1.20	1.25	1.300
	$2.10	2.20	2.30	2.30	2.40	2.45

No. 49—Flat Flange.

Width, Ins.	½	¾	¾	1
Each	$ .90	1.00	1.10	1.30
	$1.70	1.90	2.10	2.45

No. 50—Flat and Circular Flange.

Width, Ins.	½	¾	¼	1
Each	$ .90	1.00	1.10	1.30
	$1.70	1.90	2.10	2.45

No. 51—Circular Flange.

Width Ins	½	¾	¼	1.
Each	$ .90	1.00	1.10	1.30
	$1.70	1.90	2.10	2.45

No. 52—Pipe Slick.

Width, Ins.	1	1½	2
Each	$ .50	50	.50
	$ 95	95	95

No. 53—Egg Slick.

Each	$ .50
	$ .95

No. 54—Button Slick.

Width, Ins	1½	2	2½
Each	$ .50	50	50
	$ 95	.95	.95

No. 55—Square Corner.

Width, Ins	1½	2	2½
Each	$ .55	60	65
	$ 1.05	1.15	1.25

No. 56—Inside Square Corner.

Width, Ins.	2	2½
Each	$ .75	.80
	$1.40	1.50

No. 57 Half Round Corner.

Width, Ins	1	1½	1½	2
Each	$ .50	.55	.60	.65
	$ .95	1.05	1.15	1.25

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

MOLDERS' TOOLS

Prices on Request

Square Trowel.

Width, Ins.	Length, Ins. 4½	5	5½	6	6½	7
1	$ .50	$ .55	$ .60	$ .65		
1¼	.55	.60	.65	.70		
1½	.65	.70	.75	.80	$ .85	$ .95
1¾		.80	.85	.90	.95	1.05
2		.90	.95	1.00	1.05	1.15

About 50 per cent. of the trowels sold are 1¼ x 6 ins. in both the square and finishing.

No. 1—Finishing Trowel.

Width, Inches	Length, Ins. 5	5½	6	6½	7
1¼	$ .60	$ .65	$ .70		
1½	.70	.75	.80	$ .85	$ .95
1¾	.80	.85	.90	.95	1.05

No. 2—Finishing Trowel.

Width, Ins.	Length, Ins. 5	5½	6	6½	7
1¼ Each	$ .60	$ .65	$ .70		
1½ Each	.70	.75	.80	$ 0.85	$ 0.95
1¾ Each	.80	.85	.90	.95	1.05

Heart Trowel.

Width, Ins.	2	2¼	2½	3
Each	$ .60	.75	.85	1.00

No. 1—Stove Tool.

Width, Ins.	¼	⅜	½	⅝	¾
Each	$ .45	.50	.55	.60	.65

No. 44—Fluted Hub Lifter.

Size, Ins.	⅜x8	⅜x10	⅜x12	⅜x14
Each	$ .65	.75	.80	.85

No. 4 Stove Tool.

Width, Ins.	¾
Each	$ .50

No. 6—Stove Tool.

Width, Ins.	½	⅝
Each	$ .40	.45

No. 10 Gate Cutter.

Width, Ins	½	⅝
Each	$ .50	.55

No. 11 Gate Cutter and Spoon.

Width, Ins	¼	1¼	1½
Each	$ .50	.60	.70

No. 12—Bench Lifter.

Width, Ins.	1/16	⅛	⅜	½	⅝	¾
Each	$ .30	.35	.45	.50	.55	.60

No. 13—Bench Lifter.

Width, Ins.	1/16	3/16	1/4
Each	$ .40	.45	.50

No. 14—Bench Lifter Bent.

Width, Ins.	⅜	½	⅝	¾
Each	$ .45	.50	.55	.60

No. 6—Oval Stove.

Width, Ins.	¼
Each	$ .45

No. 7—Slick and Flute.

Width, Ins	¼
Each	$ .45

No. 8—Slick and Bead.

Width, Ins.	¼
Each	$ .45

No. 9—Slick and Spoon.

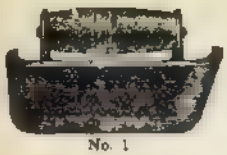
Width, Ins.	¼
Each	$ .45

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

CEMENT OR CONCRETE SIDEWALK TOOLS

GEM

Cast Iron. Heavily Nickel Plated and Polished.


No. 1

EDGERS
Black Hardwood Handle

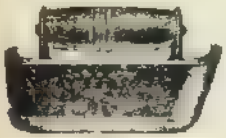
6 Ins. Long, 3 Ins. Wide, ¼ In. Radius

	Each	
No. 1	$ .60	**$1.10**

8 Ins. Long, 2½ Ins. Wide, ¼ In. Radius

	Each	
No. 2	$ .60	**$1.10**

No. 2


No. 3

6 Ins. Long, 3 Ins. Wide, ¼ In. Radius.

	Each	
No. 3	$ .65	**$1.15**

9 Ins. Long, 3 In. Wide, ¼ In Radius, ¼ In. Turned Edge.

	Each	
No. 4	$1.00	**$1.**

No. 4

No. 5 and 5½

7 Ins. Long, 3 Ins. Wide, ¼ In Radius, 1¼ In. Turned Edge.

	Each	
No. 5	$ .75	**$1.35**

9 Ins Long, 3 Ins. Wide, ¼ In. Radius, 1 In. Turned Edge.

	Each	
No. 5½	$ .65	**$1.15**

6 Ins. Long, 2¾ In. Wide

	Each	
No. 6—Bevel	$ .60	**$1.10**

No. 6

No. 7 and 8

6 Ins. Long, 1¼ Ins. Wide. Will Match Jointers. Nos. 20, 21, 22, 23

	Each	
No. 7	$ .60	**$1.10**

6 Ins. Long, 2¾ Ins. Wide. Will Match Jointers Nos. 28 and 29.

	Each	
No. 8	$ .60	**$1.10**

With Straight Edge for a Guide. 7 Ins. Long, 2¼ Ins. Wide

	Each		
No. 10—Step	$1.00	**$1.80**

No. 10

No. 11

8 Ins. Long, ¼ In Radius, 2 In. Sides.

	Each	
No. 11—Step	$1.00	**$1.80**

Two in a box

EDGERS
Black Hardwood Handle

No 43

5 Ins. Long, 2 Ins. Wide, ¼ In. Turned Edge with a Radius of ¼ In

	Each	
No. 43—Out-curve	$ 50	**$ 90**

4½ Ins. Long, 2 Ins. Wide, ¼ In Turned Edge, ¼ In. Radius

	Each	
No. 44—In-curve	$ 50	**$ .90**

No. 44

No 45

5 Ins. Long, 2 Ins. Wide, ¼ In. Turned Edge, ¼ In. Radius

	Each	
No. 45	$ 50	**$.90**

Two in a box

TAMPERS
Maple Wood Handles, 4 Ft. Long, 3 Ins. in Diameter

		Each	
No. 166—	6 x 6 Ins.	$1.30	**$2.35**
No. 177—	7 x 7 Ins.	1.35	**2.45**
No. 188—	8 x 8 Ins.	1.40	**2.50**
No. 199—	9 x 9 Ins.	1.45	**2.60**
No. 200—	10 x 10 Ins	1.60	**2.90**

Loose

No. 166 to 200

RADIUS TOOLS

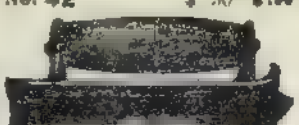
Used for Laying Out and Finishing Curves and Circles Where Longer Edgers Cannot Be Used

With ½ In. Radius

	Each	
No. 42	$ 50	**$.90**

Black Hardwood Handle

	Each	
No. 42½	$ 50	**$.90**


No. 20 and 21

JOINTERS
Black Hardwood Handle. Length, 6 Ins.; Width, 3 Ins.

One End Straight to Cut Joint in Sharp Corners. Cuts Thin Groove for Sidewalks.

	Each	
No. 20	$ .60	**$1.10**

Cuts Heavy Grooves for Carriageways.

	Each	
No. 21	$ 65	**$1.15**

Cuts Thin Groove for Sidewalks ¼ In. Deep

	Each	
No. 22	$ 60	**$1.10**

Two in a box.

No. 22

CEMENT OR CONCRETE SIDEWALK TOOLS

GEM

Cast Iron, Heavily Nickel Plated and Polished

JOINTERS

Black Hardwood Handle

No. 24

Cuts Thin Groove for Sidewalks ⅛ In Deep.

	Each	
No. 24—7½ Ins. Long, 2 Ins. Wide.	$ .60	$1.10

Cuts Thin Groove for Sidewalks ⅛ In. Deep

	Each	
No. 25—9 Ins. Long, 3 Ins. Wide	$ .85	$1.55

No. 25

No. 26

Cuts Thin Groove ¼ In. Deep.

	Each	
No. 26—9 Ins. Long, 3 Ins Wide.	$ .85	$1.55

Cuts Thin Groove ⅛ In. Deep.

	Each	
No. 28—6 Ins. Long, 4½ Ins. Wide.	$ .75	$1.35

No. 28

No. 50 to 52

Iron Handle

Curved

Length, 4½ Ins., Width, 2½ Ins

	Each	
No. 50—Cuts ⅛-in Groove	$ .60	$1.10
No. 51—Cuts ¼-in Groove	.60	1.10
No. 52—Cuts ⅜-in Groove	.60	1.10

Wood Handle

Curved

Length, 5 Ins.; Width, 2½ Ins.

	Each	
No. 53—Cuts ⅛-in Groove	$ .60	$1.10
No. 54—Cuts ¼-in. Groove	.60	$1.10

ANGLES

No. 30

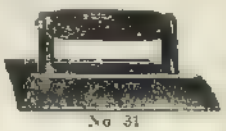
Black Hardwood Handle

Length, 8½ Ins.; 2½-in. Sides.

	Each	
No. 30—Inside Square.	$1.00	$1.80

Outside Square

	Each	
No. 31.	$1.00	$1.80


No. 31

No. 33

¼-in. Radius.

	Each	
No. 33—Outside Round Two in a box.	$1.00	$1.80

SOLID IMPRINT ROLLERS

Iron Handle, 5½ Ins. Long.

	Each	
No. 60—Size 3½ x 8 Ins.	$6.00	$10.80
No. 60½—Size 4 x 9 Ins. Loose	7.00	12.60

No. 60 and 62

IMPRINT ROLLERS

Iron Handle, 5½ Ins. Long

	Each	
No. 61—Size, 4 x 9 Ins. Loose	$4.00	$7.20

CORRUGATING TOOLS

No. 75

Black Hardwood Handle

10 Corrugations Make Grooves ¼ In Deep and ¾ In Apart.

	Each	
No. 75—6 Ins. Long, 4 Ins. Wide Loose	$1.50	$2.70

CURB-GUTTER TOOLS

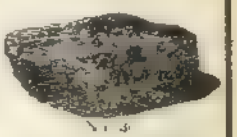
No. 35

Black Hardwood Handle

8 Ins. Long, 2½ Ins. Wide

	Each	
No. 35—1¼-in Radius	$1.00	$1.80

CURB TOOLS

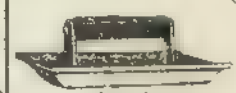

No. 36

Black Hardwood Handle

10 Ins. Long, 5½ Ins. Wide, 2-in Turned Edge.

	Each	
No. 36—1-in. Radius	$2.00	$3.60

GUTTER TOOLS


No. 40

Black Hardwood Handle

	Each	
No. 40—9 Ins. Long, 6 Ins. Wide 1 In. Deep	$1.50	$2.70

No. 41

	Each	
No. 41—6 Ins. Long, 4 Ins. Wide, 1 In. Deep.	$1.00	$1.80

RAISED POINTERS

Beading Trowel

Black Hardwood Handle

So Constructed Bead Will Not Cling to Tool

Nos.	46¼	46⅜	46½
Size, Ins.	¼	⅜	½
Each	$ .60	$ .50	.50
	$ .90	.90	.90

CONCAVE BEADING TOOL

Double End

No. 47

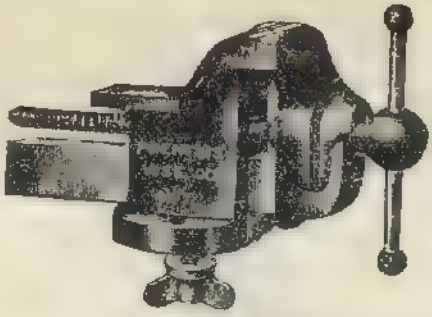
Two Sizes in One. Either Half Round or V Bead Shape

No. 47— Sizes	⅛ x 3/16	3/16 x ¼	¼ x 5/16	5/16 x ⅜	⅜ x ½	½ x ⅝
Each	$ .50	50	.50	.50	.50	.50
	$ .90	90	.90	.90	.90	.90

Two in a box.

VISES

PRENTISS

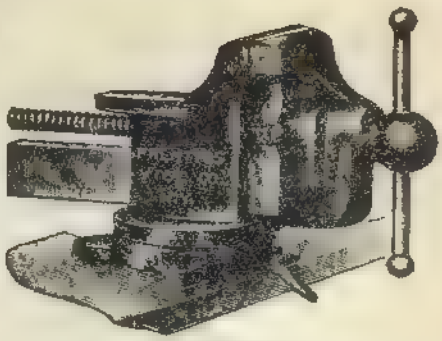


STATIONARY BASE

Can Be Used as Either Stationary or Swivel Bottom Vise

	Jaw, Inches	Opens, Inches	Weight, About, Pounds	Parts	
No. 158	2	2	2¼	$1.65	$2.50
No. 160	2	2	4	3.00	4.58
No. 161	2½	3	11	3 75	5.65
No. 162	3½	4	16	5 25	7.90
No. 163	4	6	30	8.25	12.40

Loose



SWIVEL BASE

Wrought Steel Sliding Bars, Screws, Levers and Bars

	Jaw, Inches	Opens, Inches	Weight, About Pounds	Each	
No. 60	2	2	5	$1 65	$4.60
No. 61	2½	3	12	2.25	6.38
No. 62	3½	4	18	3 00	8.40
No. 63	4	6	32	4.50	12 60

REED MACHINISTS'

High Quality Very Strong and Durable Nuts Have Milled Bases which Fit Into Milled Slots in the Bodies These and All Other Parts Finished to Limit Gauges and Strictly Interchangeable in Every Way

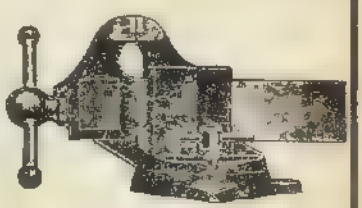
Nos. 103 to 105

STATIONARY JAW, STATIONARY BASE

	Width of Jaw, Inches	Depth Opening, Inches	Jaw Opens, Inches	Weight, About, Pounds	Each	
No. R103	3	2 7/16	4	22	$10 00	$15.00
No. R103½	3½	2½	5	29	11 25	16.90
No. R104	4	2½	6	41	12 75	19.15
No. R104½	4½	3½	7	54	15 50	23.25
No. R105	5	3½	8	71	20.00	30.00

STATIONARY JAW, SWIVEL BASE

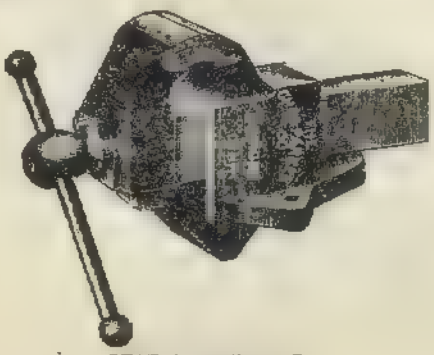
	Width of Jaw, Inches	Depth Opening, Inches	Jaw Opens, Inches	Weight, About Pounds	Each	
No. R203	3	2 7/16	4	28	$13.00	$19.50
No. R203½	3½	2½	5	36	15 00	22.50
No. R204	4	2½	6	49	17 00	25.50
No. R204½	4½	3½	7	64	20 00	30.00
No. R205	5	3½	8	87	30 00	45.00



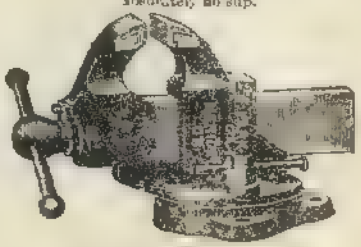
Nos. 203 to 205

PARKER

PARALLEL
SOLID STEEL
FACED JAWS



Head of the clamping bolt for the swivel base is V-shaped and works in a V-shaped channel, thereby giving a positive grip which allows absolutely no slip.



STATIONARY BASE

	Jaw, Inches	Opens, Inches	Weight, About Pounds	Each	
No. P102	3½	5½	25	$10 00	$15.00
No. P103	3½	5	31	11 25	16 90
No P104	4½	5½	48	12 75	19.15
No. P105	4½	6½	62	15 50	23.15
No. P106	5	6	75	20 00	30 00

SWIVEL BASE

	Jaw, Inches	Opens Inches	Weight, About Pounds	Each	
No. P202	3½	5½	28	$13.00	$19.50
No. P203	3½	5	37	15 00	22.50
No. P204	4½	5½	52½	17 00	25.50
No. P205	4½	6½	66	20 00	30.00
No. P206	5	8	88	30 00	45 00

Loose.

VISES

PARKER

Cast Iron, Japanned Faced Jaws. Polished Steel Screw and Sliding Handle

OVAL SLIDE

	Jaw, Inches	Opens, Inches	Weight, Abt. Lbs.	Each
No. 30	2½	3½	8½	$4.00
No. 31	3	4	13	4 75
No. 32	3½	4	19	5.90

Loose.

Extra Slides

Nos.	30	31	32	34
For Vises.	30	31	32	34
Each	70	80	1 00	1 70
	$1.70	1.90	2.50	4.30

ERIE "EMPIRE"

Made Entirely of Steel. Every Part Guaranteed Against Breakage. For General Work

OVAL SLIDE

	Jaw, Inches	Opens, Inches	Weight, Abt. Lbs.		Each
No. E025	2½	3¼	8	$ 5 00	$5.70
No. E030	3	4	10	6 00	6.80
No. E035	3½	4½	15	8 00	9.10
No. E040	4	5	20	10 00	11.40

Loose.

PRENTISS SHEPARD

Wrought Steel Sliding Bars, Screws and Levers. Jaws Hardened and Checked. Each Vise Provided with Handsomely Polished Anvil. Screws are Large and Smoothly Cut. Highly Finished.

TABLE CLAMP

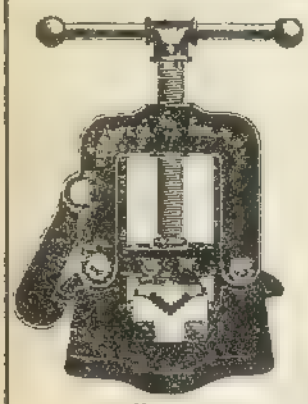
	Jaw, Inches	Opens, Inches	Weight, Abt. Lbs.		Each
No. 152	1½	1½	1½	$0 50	$ .75
No. 153	1½	1½	2½	75	1.15
No. 154	2	2	3	95	1.45

Loose.

PIPE

REED STANDARD SELF-LOCKING

Jaws Milled from Solid Too. Steel Bars, Carefully Hardened and Tempered in Oil. Extension of the Base at Back is Flat on Top, so That the Heads of the Bolts which Fasten it to the Bench are Easily Reached.



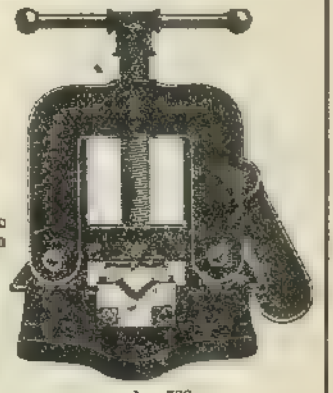
No. 72

Upper and Lower Jaws Have Two Bolts.

	Weight, About, Pounds	Holds Pipe, Inches		Each
No. 71	11	¼ to 2½	$5.00	$7.50
No. 72	14	¼ to 3½	7.50	9.75

Exceptionally High Quality. Base has Flat Bottom, so That It May Be Bolted Anywhere on a Bench, Post or Wagon Bottom.

	Weight, About, Pounds	Holds Pipe, Inches	Each	
No. 700	5	¼ to 1½	$3.60	$4.70
No. 70	8	¼ to 2	4.25	5.50



No. 700

VULCAN CHAIN

Drop Forged Jaws of Saw Tempered Steel. Unbreakable Rapid in Action and Positive in Gripping pipe. Hand Made Chains. Suitable for Fastening to Bench or Post.

		Each
No. 1V—For Pipe ¼ to 2 Inches.	$3.50	$ 6.30
Weight, Each, About 4 Lbs		
No. 2V—For Pipe ¼ to 4 Inches.	6.50	11.70
Weight, Each, About 10 Lbs		Each
No. 4V—For Pipe ¼ to 8 Inches.	18.00	32.40
Weight, Each, About 30 Lbs.		

Loose.

Cut shows Vise Holding Pipe

Cut shows Vise attached to Post

Cut shows Vise Holding Pipe Joint

VISES

PIPE

ERIE KIT

Made Entirely of Malleable Iron and Steel. Can Be Clamped to Bench or Table, Requiring No Screws or Bolts. Takes ½ to 2 inch Pipe

	Each
No. 0k	$5.00 $8.50

Loose

PARKER'S COMBINATION

Steel Faces are Milled and Fitted to Jaws and are Renewable.

Swivel Bottom

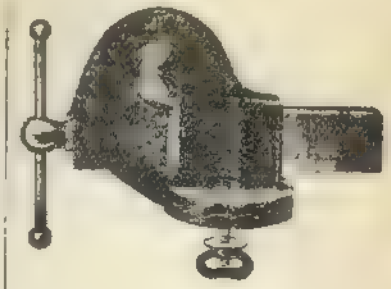
Width of Jaw 3½ Ins Opens 4½ Ins Holds Pipe 2 Ins and under Wt, 41 Lbs

	Each
No. 87	$18.00 $36.00

Width of Jaw 4½ Ins Opens 6 Ins Holds Pipe 3 Ins and under Wt 76 Lbs

	Each
No. 88	$22.00 $36.00

Loose



COMBINATION

Made Heavy All Vital Parts Reinforced Front Pipe Jaw is Reversible Can Be Used Either Stationary or Reversable Fully Warranted

Width of Jaw, 3½ Ins Holds Pipe 2 Ins. and under Wt 55 Lbs

	Each
No. 1410	$18.00 $27.75

Width of Jaw, 4½ Ins Holds Pipe 3 Ins and under Wt 73 Lbs

	Each
No. 1420	$25.00 $36.00

Loose

BENCH DRILL

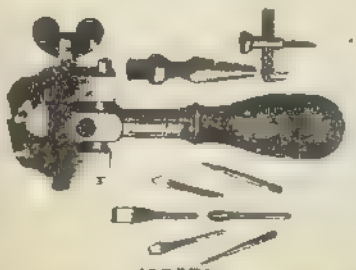
Designed for Use on Yankee Bench Drills, or Separately Attached to Bench Body and Sliding Jaw are of Cast Iron Accurately Machined to Hold Work Square when Used Either Lengthwise or Crosswise. Sliding Jaw has a T-shaped Block Screwed to Its Underside Sliding in T-shaped Slot in Body Wide Insuring Parallel Movement of Jaw. A Removable Screw Jaw is Provided to Hold Taper Work and is Made of Steel Case Hardened Stem has a Friction Spring to Hold Jaw in Position. Adjusting Screw is of Steel ½ Inch in Diameter, with ½ inch Head to Receive Strong Bar. The Boss on End of Body in which Screw Works is ½ Inch Long. Two Countersink Holes are Provided in Base to Screw Vise to Bench if Desired

	Each
No. 990 Base, 6 Inches Long, 2½ Inches Wide. Height, 2 Inches. Opening of Jaws Without Swivel Jaw is 3 Inches; Width, 2½ Inches. Depth of Jaws 1½ Inches. Weight of Vise, 3½ Lbs.	$4.00

One in a paper box

HAND

FOR JEWELERS TOOL MAKERS AND MACHINISTS



ALFORD

Forged and Tempered Steel Jaws Hollow Cocobolo Handle Complete with Chisel Screw Driver Countersink Square Reamer Brad Awl Scratch Awl, Master Cutter Jaws, 1½ Ins Wide Opens 1½ Ins. Length 6½ Ins

	Each
No. 1	$5.50

One in a box

GLADIATOR

Steel Head Natural Finish Polished, Hardened Jaws Tempered Handle Bright Finish Jaws Work on Parallel Lines Width of Jaws, 1½ Ins. Length 6 Ins Opens ½ In

	Per Dozen
No. 202	$20.00

Half dozen in a box

MILLERS FALLS

Forged Steel. Polished and Nickel-plated Jaws. Equipped with a Bit Stock Shank for Use in a Bit Brace After Removing the Detachable Handles Cocobolo Handle Width of Jaws, 1½ Ins Length, 6½ Ins

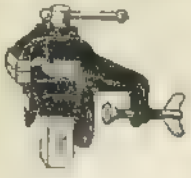
	Each
No. 2	$5.35

One in a box

VISES

VICTOR "JERSEY"

Brown body. Polished slide jaws, screw and handle. The screw (body, head and collar) is in one piece, turned from cold rolled steel, and has a square, lathe-cut thread. The steel jaws are hardened, and all jaws are ground to insure that they meet squarely when tightened. Both back and front jaws are filed to a fit.



CLAMP BASE, PLAIN IRON JAWS

		Each
No. 741—1½ In. Jaws.	Wt., Each, 3 Lbs.	**$2.00**
No. 742—1¾ In. Jaws.	Wt., Each, 4¼ Lbs.	2.45
No. 743—2 In. Jaws.	Wt., Each, 3½ Lbs...	2.90
No. 745—2½ In. Jaws.	Wt., Each, 5 Lbs..	4.10
No. 746—3 In. Jaws.	Wt., Each, 8¾ Lbs.	6.40

One in a package.

CLAMP BASE, HARDENED TOOL STEEL JAWS

		Each
No. 761—1½ In. Jaws.	Wt., Each, 3 Lbs...	**$2.50**
No. 762—1¾ In. Jaws.	Wt., Each, 3½ Lbs...	3.00
No. 763—2 In. Jaws.	Wt. Each, 3½ Lbs	3.55
No. 765—2½ In. Jaws.	Wt., Each, 5 Lbs...	4.85
No. 766—3 In. Jaws.	Wt., Each, 8¾ Lbs	7.15

One in a package.

SWIVEL BASE, HARDENED TOOL STEEL JAWS

		Each
No. 772—1½ Inch Jaws.	Weight, Each, 3 Pounds	**$3.00**
No. 773—2 Inch Jaws.	Weight, Each, 3¾ Pounds	3.60
No. 775—2½ Inch Jaws.	Weight, Each, 5½ Pounds	5.40
No. 776—3 Inch Jaws.	Weight, Each, 9½ Pounds	7.30

One in a package

These Vises are also Furnished in Assortments, which Include an Attractive Display Stand.

No. 12

Size of Jaws	1½	1¾	2	2¼	2½	3
Clamp Base, Iron Jaws	2 No. 741	2 No. 742	2 No. 743	1 No. 744	1 No. 745	1 No. 746
Clamp Base Steel Jaws	1 No. 761	....	1 No. 763	....	....	....
Swivel Base, Steel Jaws	....	1 No. 772	....	....	....	....

Assortment No. 12—12 Vises and Display Stand. Weight, 64 Pounds. Per Assortment **$14.20 $40.80**

Size of Jaws	1½	1¾	2	2¼	2½	3
Clamp Base, Iron Jaws	3 No. 741	3 No. 742	3 No. 743	2 No. 744	2 No. 745	1 No. 746
Clamp Base, Steel Jaws	....	....	....	1 No. 764	1 No. 765	....
Swivel Base, Steel Jaws	....	1 No. 772	....	1 No. 774	....	....

Assortment No. 18—18 Vises and Display Stand. Weight, 92 Pounds. Per Assortment **$22.45 $61.65**

Size of Jaws	1½	1¾	2	2¼	2½	3
Clamp Base, Iron Jaws	4 No. 741	4 No. 742	3 No. 743	2 No. 744	2 No. 745	1 No. 746
Clamp Base, Steel Jaws	....	1 No. 762	1 No. 763	2 No. 764	1 No. 765	1 No. 766
Swivel Base, Steel Jaws	....	....	....	1 No. 774	....	1 No. 776

Assortment No. 24—24 Vises and Display Stand. Weight, 127 Pounds. Per Assortment **$32.15 $87.65**

Size of Jaws	1½	1¾	2	2¼	2½	3
Clamp Base, Iron Jaws	6 No. 741	6 No. 742	3 No. 743	3 No. 744	2 No. 745	2 No. 746
Clamp Base, Steel Jaws	2 No. 761	2 No. 762	1 No. 763	2 No. 764	1 No. 765	1 No. 766
Swivel Base, Steel Jaws	....	1 No. 772	1 No. 773	1 No. 774	1 No. 775	1 No. 776

Assortment No. 36—36 Vises and Display Stand. Weight, 176 Pounds. Per Assortment **$46.45 $129.36**

One assortment in a case

STEWART HANDY WORKER

It Comprises: A Strong and Powerful Steel-Faced Vise, Up to 4½ Inches. Width of Jaw, 4 Inches. Cutting Hardie. Steel Pipe Vise Takes Up to 1½ Inch Pipe. Drill Press which may be Operated at Two Speeds. Strong, Substantial Anvil. Corundum Grinding Wheel, 5 x 1 Inches. Three Speeds: direct, 4 to 1 and 16 to 1. This Unique Tool Can Be Used to Advantage Every Day Around the Farm, Home, Private Garage, Shop or Store. It Will Pay for Itself in No Time and is Practically Everlasting. The Entire Tool and Attachments are of First Quality Throughout. The Gears are Cut from Solid Steel Bar. No Other Tool Ever Offered at Anywhere Near this Price has the Same Quality, Workmanship and Many Uses.

No. SHW Size, Boxed, 28 x 13 x 7 Inches. Weight, Boxed for Shipment, 55 Lbs. Each **$21.20**

VISES

Nos 00 to 02½

BONNEY STANDARD

IRON JAWS

Finished in Black, Baking Enamel with Polished Screws, Jaws and Anvils

		Each
No. **00**—Size of Jaw, 1 Inch. Weight, Each, 1 Lb.....	....	$ .95
No. **01**—Size of Jaw, 1½ Inches. Weight, Each, 1½ Lbs	. . ..	1.05
No. **02**—Size of Jaw, 2 Inches. Weight. Each, 2½ Lbs..	. . .	1.70
No. **02½**—Size of Jaw, 2½ Inches. Weight, Each, 4 Lbs.		3.45

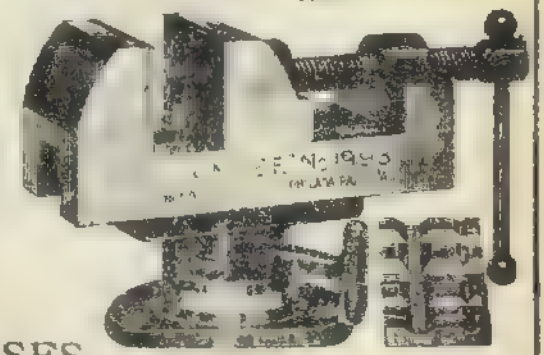
Two in a box

ASSORTMENT

Quantity	No.	Description	Size of Jaw	Weight, each	Price
6	00	Iron Jaws.	1 Inch	1 lb	$1.63
6	01	Iron Jaws.	1½ Inches	1½ lb	1.87
3	02	Iron Jaws.	2 Inches	2 lb	1.53
2	02½	Iron Jaws.	2½ Inches	4 lbs	2.00
Sample Stand					1.12
					Per Asst.
					$23.25

No. 10—Sample Stand and 17 Vises

YANKEE



The Swivel Base, on which the No. 993 "Yankee" Vise is Mounted, is Easily and Firmly Locked or Released by a Short Movement of Lever on One Side. The Base is 4½ Inches in Diameter, has Three Bosses on Under Side to Give a Level Bearing on Bench. The Upper Part of Swivel has a Taper Piece to Receive Taper End of Sliding Jaw, with Set Screw in One End to Force Taper into Position, thus Clamping Vise and Base Perfectly Rigid. Jaws of Vise are 2" Inches Wide, 1¼ Inches Deep and Open 3½ Inches. Extreme Height with Swivel Base is 5½ Inches. Extreme Length Over All, 8½ Inches

Each

No. 1993—Wt of Vise and Swivel Base, 13 Lbs. 8 Oz. $11.30

One only in Fibre box

ANVIL VISES

ROCK ISLAND

Anvil and Vise Combined, with Jaws for Holding Pipe. This Vise is Intended Only for Light Work. This is the Best Finished Vise of this Type on the Market. Has Steel Screw with Cut Threads, Steel Nut and Cold Rolled Steel Handle. Anvil and All Finished Parts High Polished and Lacquered.

Each

No. 380—Width of Jaws, 3 Inches; Opens 5 Inches. Weight, 26 Pounds Loose. $2.00 $4.00

COMBINATION VISES

DIAMOND

Cast Iron Body, Head, Slide and Horn Steel Screw and Slide Handle Hardened Face and Anvil Pointed and Tempered Steel Faced Jaws. Positive Lock Movable Jaw. Painted Green.

No. 20—4-inch Steel Adjustable Jaws. Checked and Hardened. Holds Pipe Up to 2 Inches, Opens 12 Inches. Anvil 3 x 7 Inches (not Including Horn). Chilled Groin Hard Polished Weight, 42 Lbs Each **$10.69**

Loose

DIAMOND, WITH DRILL ATTACHMENT

For Use With No. 20 Diamond Vise

For Use when Drilling Tires and Rims of Wheels for Riveting, Boring Holes in Any Kind of Metal or Wood Work. Will be Found Convenient and Easy to Put in Operation

Each

No. 20D—Same as No. 20, with Drill Attachment. Drill Attachment Easily Removed When Not in Use Weight, Complete, 51 Lbs **$14.35**

DIAMOND DRILL ATTACHMENT ONLY

Each

No. 19—For Use with No. 20 Diamond Vise **$4.68**

Loose.

No. 2810

WOOD WORKERS' VISES

The Screw is Cold rolled Steel Front Jaw is Steel Frame or Body is Cast Iron The Front Jaw is Faced with Wood.

Each

No. 2810—Length of Jaws 10 Inches; Opens 9 Inches Weight, Each 20 Lbs **$11.00**

Loose.

SOLID BOX VISES, ALSO KNOWN AS LEG VISES

BLACKSMITHS'

Vise Complete

Japanned Forged Steel Body. Polished Tool Steel, Welded Jaws. Polished Steel Screw and Sliding Lever, Flat Steel Tempered Spring; Malleable Iron Box and Bench Plate

Nos.	35	40	45	50	55	60	65
Weight, Each, Lbs	35	40	45	50	55	60	65
Width and Opening of Jaws, Inches	3½	4	4½	4½	4¾	5	5
Each	$10 00	10 50	11 00	11 50	12 00	13 00	14 00
	$20.00	21.00	22.00	23.00	24.00	26.00	28.00

Nos.	70	75	80	85	90	100
Weight, Each, Lbs	70	75	80	85	95	100
Width and Opening of Jaws, Inches	5½	5½	5¾	5¾	5¾	6
Each	$15 00	16 00	17 50	18 50	21 00	22 00
	$30.00	32.00	35.00	37.00	42 00	44.00

Loose.

VISE BOXES AND SCREWS

Extra Malleable Boxes, with Steel Screw and Sliding Lever Handle for Solid Box Vises

Nos.	1	1½	2	3	4
To Fit Vises, Nos	35 & 40	45 to 55	60 to 75	80 to 95	100
Length Over All, Inches	11½	12½	13½	14½	15½
Diameter of Screw, Inches	1	1⅛	1¼	1⅜	1½
Diameter of Box, Inches	1⅝	1⅞	1 11/16	1¾	2⅛
Weight, Each, Lbs	7	9	12	15	20
Each	$3 50	4 00	4 00	4 50	7 00
	$7.00	8.00	8.00	9.00	14.00

Loose.

Showing Extra Box and Screw

TUNGSTEN

Trade Mark Registered
SPARK PLUG
Always on the job

The firing pins on this plug are of Tungsten steel and are guaranteed not to corrode or to burn down. The porcelains are made of Imported Corundum, baked under a heat of 2600 degrees, and is guaranteed against heat breakage. Each plug is packed in a tin container.

REGULAR

½-inch
½-inch extension
½-inch Ford Special
⅞-inch
⅞-inch extension
⅞-inch Dodge Special
⅞-inch Motorcycle
Metric
Metric Motorcycle

Each $1

SPECIAL FOR FORDS

½-inch

A long body, constructed so as to eliminate breakage of porcelain when removing plug from cylinder head. Recommended for Ford, Overland and Studebaker.

Each $1 00

MICA SMALL HEX

½-inch
½-inch extension
⅜-inch
⅜-inch extension
Metric

These plugs are adapted for 4-cylinder light tractor engines and passenger car engines developing considerable amount of heat. ⅜-inch extension can be supplied with Franklin terminal, and is particularly adapted to Franklin cars.

Each $1 25

HEAVY DUTY

½-inch
½-inch extension
½-inch F. O. S. Special
½-inch extra long
⅝-inch
¾-inch
⅞-inch extension
Metric

½-inch extra long specially adapted for Waterloo Boy and Hart-Parr tractors, and the ¾-inch for Titan and Mogul tractors.

Each $1 25

HEAVY DUTY

⅞-inch long Buick

Recommended for Buick cars, and all others using long plugs.

Each $1 25

HEAVY DUTY

⅞-inch Dodge Special

Recommended for Dodge cars, having a longer thread than the ⅞-inch regular, giving better ignition, firing lower in the cylinders

Each $1.25

HEAVY MICA TRACTOR

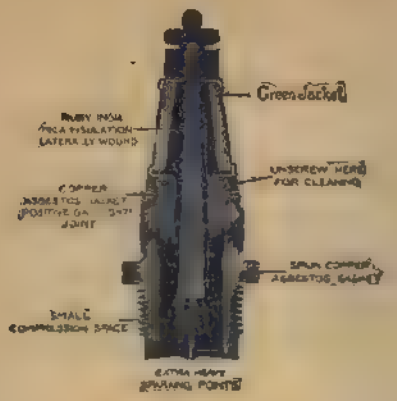
½-inch
½-inch extension
½-inch extra long
¾-inch
⅞-inch
⅞-inch extension
Metric

Each $1.50

EXTRA PORCELAIN CORES

Regular	Each	$0 40
Long	"	.40
Heavy Duty	"	.60
Heavy Duty, long	"	.60

SPLITDORF GREEN JACKET SPARK PLUGS



Made in a variety of types—in standard sizes and of special dimensions to suit engines of every make—the keynote of the highest quality is sounded in the whole line of Splitdorf plugs. They are as nearly soot proof, leak proof and unbreakable as human ingenuity can make them. India ruby mica, the highest grade of electrical insulation known, is used exclusively in Splitdorf plugs.

Special for Fords

½-inch standard
Recommended for all Ford cars.
No. P179 .....Each $1.00

½-inch standard.
Recommended for all other cars using this size plug.
No. P144 .....Each $1.00

½-inch long
Recommended for all cars using a ½-inch long plug.
No. P182 .....Each $1.00

½-inch extra long.
Recommended for all Metz cars and Reos, 1917, 1918 and 1919 models.
No. P141 .....Each $1.00

⅞-inch long tractor Heavy duty.
No. P190 .....Each $1.00

⅞-in-18 S.A.E. standard
Recommended for all cars using this style plug.
No. P163 .....Each $1.00

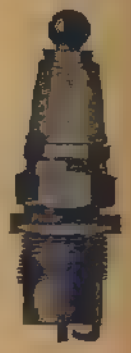
⅞-inch-18 S.A.E. long
Recommended for Willys-Knight cars.
No. P158 .....Each $1.00

⅞-inch S.A.E. long body.
Recommended for all cars using ⅞-inch-18 long body plugs. Chandler, White cars and Moreland trucks.
No. P785 .....Each $1.00

⅞-inch-18 S.A.E. long.
Recommended for all Buick cars prior to 1918 models.
No. P174 .....Each $1.00

⅞-inch-18 S.A.E. long heavy hexagon. Special heavy duty Buick.
No. P784 .....Each $1.00

⅞-inch-18 S.A.E. long.
Recommended for Overland 6, Premier and Winton cars.
No. P165 .....Each $1.00



⅞-inch-18 S.A.E. long.
Recommended for Franklin air cooled motors.
No. P182 .....Each $1.00

Metric
For all motorcycles using Metric plugs.
No. P126 .....Each $1.00

Metric
For Essex, French Renault cars, also Packard, Peerless and Pierce-Arrow cars and trucks prior to 1915.
No. P148 .....Each $1.00

¾-inch long
Recommended for all tractors using this size plug.
No. P178 .....Each $2.00

A. C. TITAN SPARK PLUGS

A. C. TITAN ½-INCH CARBON PROOF

A non-separable porcelain plug. The porcelain is provided with a number of ribs, having saw-tooth edges, which attain a sufficiently high degree of heat to burn away the carbon. Especially adapted for use in Ford, Studebaker and Overland cars. Are being used by the new Ford tractors, using kerosene for fuel, and in which the ordinary plug will not stand up. Made only in ¼-inch size.

No. 12CPT ....Each $1.00

A. C. TITAN ½-INCH LONG

Regular equipment on Reo cars and trucks.

For Overland up to 1914, and Winton to 1915.

No. 12LT .....Each $1.00

A. C. TITAN ⅞-INCH REGULAR

Regular equipment on Buick 4-cyl. 35, Cole, Cadillac, Chalmers, Davis, Grauim, Glide, G. M. C., Jeffrey, Jordan, Kissel Empire, Olds, Oakland 8, Packard Twin 6, Peerless, Pierce-Arrow, Stutz, Velie, Westcott, Abbott and Anderson.

No. 78RT .....Each $1.00

A. C. TITAN ⅞-INCH LONG

Regular equipment on Buick, Chalmers 32, Chevrolet, Enger 12-cylinder, McLaughlin, Scripps-Booth 4, Chevrolet 490.

No. 78LT .....Each $1.00

A. C. TITAN ⅞-INCH LONG BODY

For motors requiring a long body plug. Regular equipment on Chandler, National, Stephens, White, Crane-Simplex, Jackson and Moreland trucks.

No. 78LBT ....Each $1 00

A. C. TITAN METRIC

Regular equipment on Essex.

Are recommended for Pierce Arrow 1915, Peerless 1915, and all cars using metric plugs.

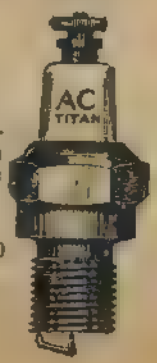
No. 18MT .....Each $1.00

A. C. TITAN METRIC SHORT

Regular equipment on Peerless trucks up to 1915. Correct size for Packard cars and trucks up to 1915, and for White.

No. 18SMT ....Each $1.00

A. C. TITAN METRIC LONG



Suitable for Scripps-Booth 8. Length, ⅞-inch from gasket shoulder to firing point.

No. 18LMT ....Each $1.00

A. C. TITAN S. A. E. REGULAR

Regular ⅞-inch 18-thrd body, ⅞ hexagon. Regular equipment on Apperson 6, Velie, Haynes, Daniels, Stearns-Knight, Marmon and Murray.

No. SAET .....Each $1.00

A. C. TITAN S. A. E. LONG

Same character as regular S.A.E. plug, but has longer shell. For motors requiring an extension plug. Regular equipment on Oakland 32 and 34B, Apperson 8, Mercer, Premier, Monroe, Olds 6-cyl., Scripps-Booth 6 and Nash up to 1919.

No. SAELT ...Each $1.00

A. C. TITAN S. A. E. EXTRA LONG

Regular equipment on Nash 1920.

No. SAENT ...Each $1.00

A. C. TITAN ⅞-AIRCRAFT REGULAR

Specially designed for high speed, high compression motors and for air cooled motors. Regular equipment on National cars. Particularly recommended for motorcycles.

No. 78RATT Each $1.00

A. C. TITAN ⅞-INCH DODGE SPECIAL

Slightly longer than ⅞ regular. Regular equipment on Dodge cars.

No. 78DT .....Each $1 00

A. C. CICO SPARK PLUGS

A. C. CICO ½-INCH REGULAR

Recommended for Ford, Studebaker, Overland and all cars using ½-inch size.

No. 12RC .....Each $0.75

A. C. CICO ½-INCH LONG

Regular equipment on all Reo cars and trucks up to 1919.

No. 12LC .....Each $0.75

A. C. CICO ½-INCH EXTRA LONG

Recommended for Metz cars.

No. 12ELC ....Each $0.75

A. C. CICO ⅞-INCH REGULAR

Regular equipment on Detroiter, Dort, Federal Truck, Hudson, Hupp, Lambert, Liberty, Patterson, Paige and Pilot up to 1919.

No. 78RC .....Each $0.75

A. C. CICO ⅞-INCH LONG

Regular equipment on Chevrolet 490. Recommended for Harley-Davidson up to 1919.

No. 78LC .....Each $0.75

A. C. CICO ⅞-INCH DODGE TYPE

Exclusive equipment on Dodge cars up to 1919. Slightly stronger than ⅞-inch regular plug.

No. 78DC .....Each $0.75

A. C. CICO S. A. E. REGULAR

Regular equipment on all Saxon cars up to 1919. Has ⅞-inch 18-thread, but small body.

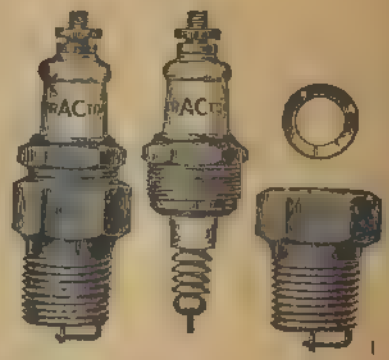
No. SAEC .....Each $0.75

A. C. STANDARD TWO-PIECE PLUG

Regular ⅞-inch size.

No. 78CPAC ..Each $1.00

A. C. TRACTOR TWO-PIECE



This new construction combines the advantages of the Titan, carbon-proof one-piece design with the ready demountability of the standard A. C. It can be taken apart and reassembled any number of times without risk of spoiling the packing. Particularly recommended for kerosene burning motors.

No. 12ACTP—½-inch ... ...Each $1 25
No. 78ACTP—⅞ inch .... . . " 1.25

Extra porcelains with bushings
Each $0.75

PORCELAINS FOR STANDARD TWO-PIECE PLUGS

No. 2CPP . . .Each $0.50

CHAMPION SPARK PLUGS

Champion Spark Plugs are guaranteed to give absolute satisfaction to the user, or full repair or replacement will be made.

Conical 2-piece ½-in Hex

For Studebaker cars previous to 1920, and trucks, tractors, farm and stationary engines using a ½-inch plug.

No. A13—½-inch

Each $0.90

Petticoat 2-piece ½-in Hex

Equipment on Fordson tractors.

No. A24—½-inch long

Each $0.75

Conical 2-piece ½-in Hex

For Chevrolet, Oakland, Olds 6, Scripps-Booth passenger cars, Elgin and other tractors, and stationary and marine engines using a ⅞-inch long plug.

No. A53—⅞-in long

Each $0.90

Petticoat 2-piece ½-in Hex

For use on commercial cars and tractors when a standard ½-inch plug is necessary.

No. A14—½-inch

Each $0.90

Specially recommended to meet the requirements of the Oakland motor.

No. A14-0—½-inch

Each $0.90

For tractors, farm, marine and stationary engines requiring an extra long plug.

No. A34—½-in ex. long

Each .....$0.

Conical 2-piece ½-in Hex

For Elcar, Elgin, Grant, Lexington, Metz, Studebaker passenger cars, Autocar, Bethlehem, Kleiber trucks, also on tractors and engines using a ⅞-inch plug.

No. A43—⅞-inch

Each $0.90

For motorcycles using metric thread.

No. A63—Metric

Each $0.90

Petticoat 2-piece ½-in Hex

For States and Willys 6 cars, also Dodge and Maxwell cars and trucks.

No. A44—⅞-inch .....Each $0.90

For Essex and Rolls Royce cars, White trucks and farm, marine and stationary engines with metric threads.

No. A64—Metric .....Each $0.90

Conical 2-piece 1⅛-in Hex (Heavy Duty)

For Buick cars.

No. AA53—⅞-inch long.

Each $0.90

Champion X
Petticoat 2-piece ½-in Hex

Adopted by the Ford Motor Co. as standard equipment on Ford cars since 1911.

Following is quoted from the instruction book in each Ford car:

Ford engines are equipped with this plug when they leave the factory and are best adapted to the requirements of our motor.

No. A15—½-inch

Each $0.75

Petticoat 2-piece 1⅛-inch Hex (Heavy Duty)

For Dodge trucks.

No. AB44—⅞-inch

Each $0.90

Conical 2-piece Heavy Stone 1⅛-inch Hex (Heavy Duty).

Specially adapted for heavy truck, tractor and engine work.

No. B13—½-inch

Each $1.00

For use in Dorris, Fiat, MacFarlan, Overland 6, Pathfinder, Willys-Knight and Winton passenger cars, Acason, Atterbury, Bethlehem, Garford, Kissel, Mack and many other trucks and tractors using ⅞-inch.

No. B43—⅞-inch .....Each $1.00

For use in Dorris cars and trucks.

No. B53—⅞-inch long.....Each $1.00

For all motors using ¾-inch plugs.

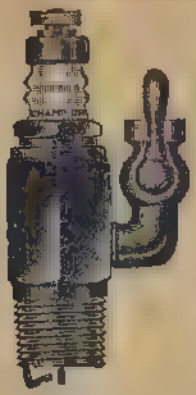
No. B73—¾-inch .....Each $1.00

For all motors using ¾-in long plugs.

No. B83—¾-inch long.....Each $1.00

CHAMPION SPARK PLUGS

Champion Spark Plugs are guaranteed to give absolute satisfaction to the user, or full repair or replacement will be made.



Pettticoat 2-piece ⅝-in Hex

Priming plug. Will start motor on first quarter turn. Brings gasoline right to the sparking point.

No. H14—⅜-inch
Each $1 25
No. H44—⅞-inch
Each $1.25
No. H04—Metric
Each $1.25

Conical 1-piece 1⅛-in Hex (Heavy Duty)

For use in Briscoe, Cadillac, Chalmers, Cole, Haynes, Jackson, King, Moon, Olds 8 and Packard passenger cars and trucks, Holt tractors and stationary farm and marine engines using a ⅞-in heavy duty plug.

No. JAS43—⅞-inch
Each $0.90

For use in Jordan, Kissel Kar and Nash passenger cars, and in trucks and tractors using a ⅞-inch long plug.

No. JA53—⅞-inch long.....Each $0.90

Conical 1-piece ⅝-inch Hex

For use in Overland truck, Moline tractor and in stationary engines using a ½-inch 1-piece plug.

No. J13—½-inch
Each $0 90

For use in all motors using a ½-inch long 1-piece plug.

No. J23—½-inch long
Each $0.90

Conical 1-piece ⅞-inch Hex

For use in Apperson, Crow-Elkhart, Mercer, Premier, Stearns-Knight, Stutz, Templar passenger cars, Indiana and other trucks using ⅞-inch 1-piece plugs.

No. J43—⅞-inch .....Each $0 90

For use in Franklin, Nash and National cars.

No. J53—⅞-inch long.....Each $0.90

Conical 1-piece 1⅛-inch Hex (Heavy Duty)

For use in Dort, Hudson, Hup, Saxon cars, Federal, G. M. C., Moreland and Vim trucks, and all other cars and trucks taking a ⅞-inch plug of this type.

No. JA43—⅞-inch
Each $0 90

Conical 1-piece 1⅛-inch Hex (Heavy Duty)

For use in Auburn, Case, Chandler, Locomobile, Mitchell, Paige, Detroit, Peerless, Pierce-Arrow, Stevens-Duryea, Velie, Westcott and White cars, Gramm, Nash and Paige trucks.

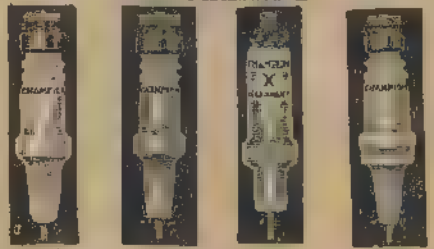
No. JB43—⅞-inch
Each $0.90

Conical 1-piece 1-inch Hex

For use in Rolls Royce cars, and on motorcycles and farm, stationary and lighting engines using metric plugs.

No. J63—Metric
Each $0.90

PORCELAINS



A103 A104 A105 B103

Porcelain	For Type	Each
A103	A13, A43	$0 45
A104	A14, A14-0, A44, A64	.60
A105	A15	.40
A304	A34	.45
A503	A53, AA53	.60
B103	B13, B43, B73	50
H104	H14, H44	.45

MINUTE

SPARK PLUG CLEANER

The quick and easy way to clean spark plugs.

Simply fill glass tube half full of gasoline—screw the plug into bushing at the top and shake vigorously.

The needles within the tube pick the carbon from the porcelain while the gasoline dissolves the oil.

The Champion Minute Spark Plug Cleaner comes in a neat box which fits nicely into any tool case.

Each $0 75

SPARK PLUG BRUSHES

An excellent wire and bristle brush with two flat steels for cleaning parts not accessible with brush.

No. .....S.P.B.
Weight per dozen, lb. . ¾
Per dozen $2.00

One in a box.

SPARK PLUG WRENCH

No. 25—Malleable iron..Per dozen $8.00

Loose.

Note—⅞-18 Long and ⅞-18 Long Heavy Duty made especially for Buick cars.

UNIVERSAL RAZORS

Finest quality English high carbon steel, of uniform temper, exact grinding, hand honed and sharpened. Each razor in perfect shaving condition. Fully warranted.

No. 345—Ivory white oval handle. Full hollow ground. Gun metal tang and back. Polished and gold etched. Barber's point, ⅝-inch blade.

Per dozen **$42.00**

No. 348—Flat tortoise celluloid handle. Full hollow ground. Gun metal tang and back. Polished and gold etched. Barber's point, ⅝-inch only..... **Per dozen $42.00**

No. 334—Black rubber handle. Full hollow ground. Crocus polished. Gold etched. Hollow point, ⅝-inch blade.

Per dozen **$40.00**

No. 346—Black rubber handle. Full hollow ground, polished and gold etched. Barber's point, ⅝-inch blade.

Per dozen **$36.00**

No. 341—Black rubber handle Full hollow ground, polished and etched. Round point, ⅝-inch only.

Per dozen **$33.00**

No. 243—Black rubber handle; ¾ hollow ground, polished and etched. Square point, ⅝-inch blade.

Per dozen **$27.00**

No. 228—Flat red transparent celluloid, hollow ground, square shoulder. Polished and etched. Square point, ⅝-inch blade ..... **Per dozen $24.00**

No. 222—Black rubber handle. Hollow ground Square shoulder. Polished and etched. Square point, ⅝-inch blade.

Per dozen **21.00**

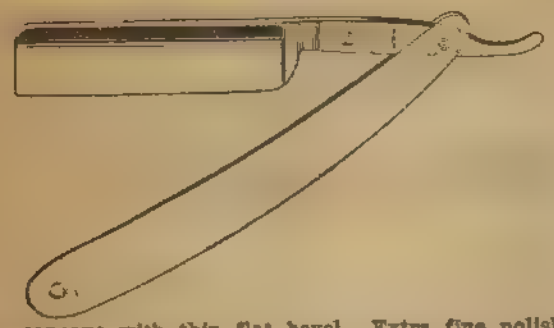
No. 211—Black rubber handle Hollow ground, polished and etched. Square point, ⅝-inch blade.

Per dozen **$18 00**

Weight per dozen, 2 lbs. Each razor packed in individual container, one-half dozen in a cardboard box.

GENCO RAZORS

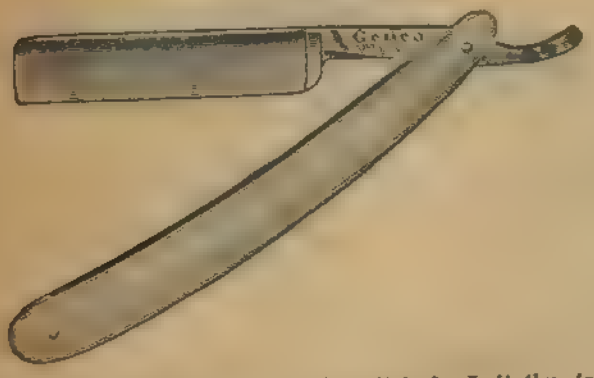
GOLD SEAL



Extra concave with thin flat bevel. Extra fine polish with back and tang heavily gold plated. Transparent amber handle.

No. 1314—Blade, ⅝-inch. Honed point.....Per dozen $60.00
No. 1315—Blade, ⅝-inch. Round point..... " 60.00

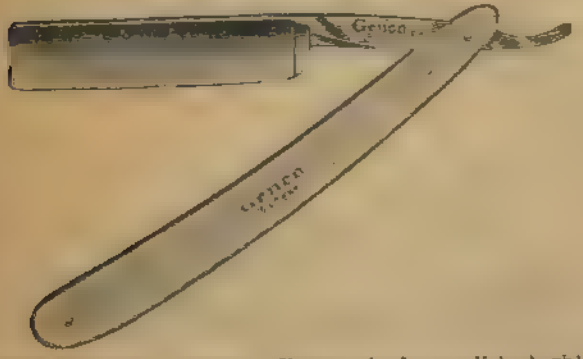
ARMY AND NAVY



Ground extra full concave. Highly polished. Imitation ivory, oval handle, round ends.

No. 1324—Blade, ⅝-inch. Honed point ... ...Per dozen $60.00
No. 1325—Blade, ⅝-inch. Round point... .... " 60.00

EXPERT

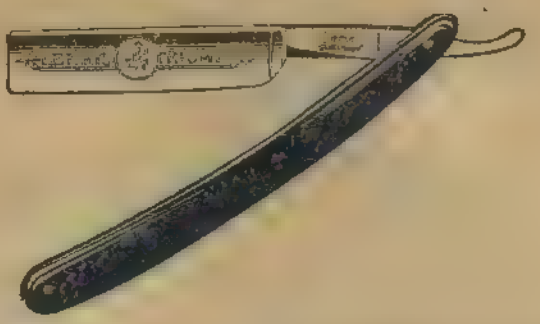


Ground extra full concave. Extremely fine polish, highly colored. Imitation ivory, flat handle, with beveled edges and round ends.

No. 1316—Blade, ⅝-inch. Honed point.....Per dozen $60 00
No. 1317—Blade, ⅝-inch. Round point..... " 60 00

Weight per dozen, 2 lbs. One in a box, one-half dozen in carton.

HENRYS TRIUMPH



Full concave with stiff bevel. Extra fine finish, back and tang crocused. Black oval rubber handle.

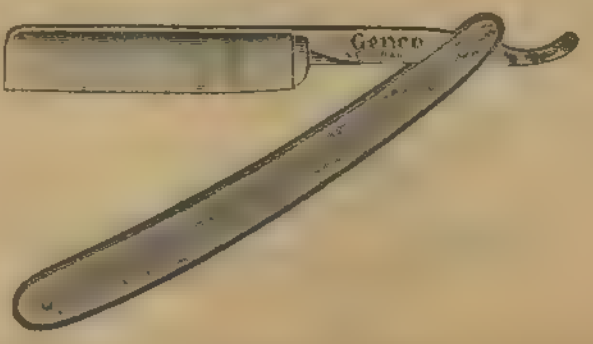
No. 1340—Blade, ⅛-inch. Honed point.....Per dozen $50 00
No. 1341—Blade, ⅛-inch. Round point.... .... " 50 00

MASTER CUTLER

Full concave. Fine wide bevel. Mirror finish with gold etching. Heavy black rubber beveled edge handle.

No. 1338—Blade, ⅛-inch. Honed point... .. Per dozen $50 00
No. 1339—Blade, ⅛-inch. Round point.. .. " 50.00

NUBAK



Full concave., First class polish. Crocus back and tang. Flat imitation oak handle.

No. 1310—Blade, ⅝-inch. Bullet or square point. Per doz $50 00

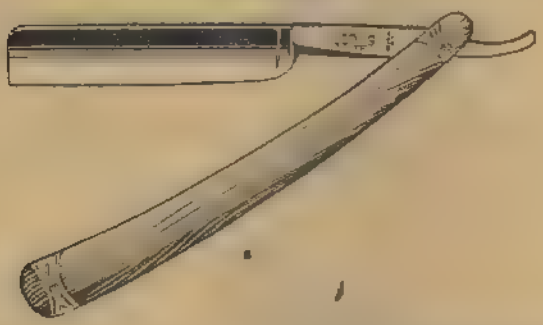
GENCO RAZORS

OLD DUTCH

Forged with special shoulder, ground extra full concave. Extra fine polish, highly colored. Imitation oak oval handle, with metal ornaments.

No. 1312—Blade, ⅝-inch. Barber point.....Per dozen $60.00

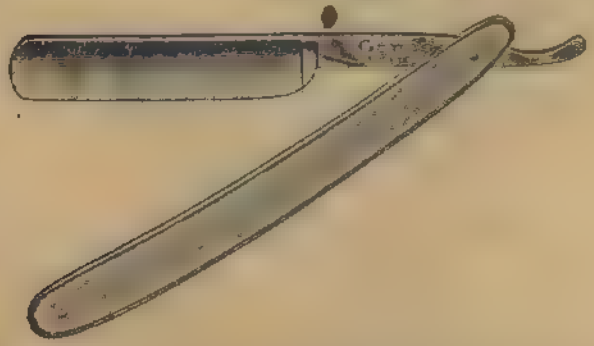
DE ROMA



Full concave with wide flat bevel. Extra fine polish with back and tang highly crocused. White grain celluloid handle with design metal trimmings.

No. 1319—Blade, ⅝-inch. Round point.....Per dozen $60.00

FLUID STEEL

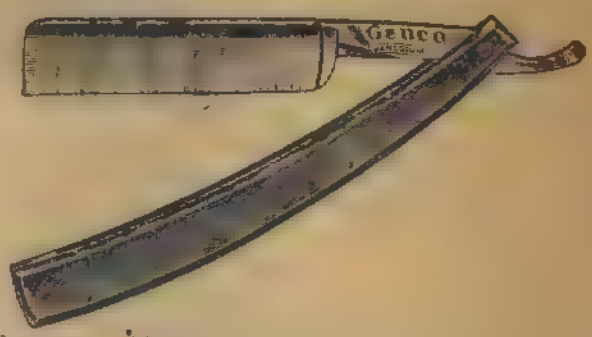


Full concave with wide bevel, specially stiffened, anti-rust, gun metal back and tang. Flat imitation ivory beveled edge handle.

No. 1320—Blade, ⅝-inch. Bullet or square point. Per dozen $60.00
No. 1321—Blade, ⅝-inch. Round point..... " 60.00

Weight per dozen, 2 lbs. One in a box, one-half dozen in carton.

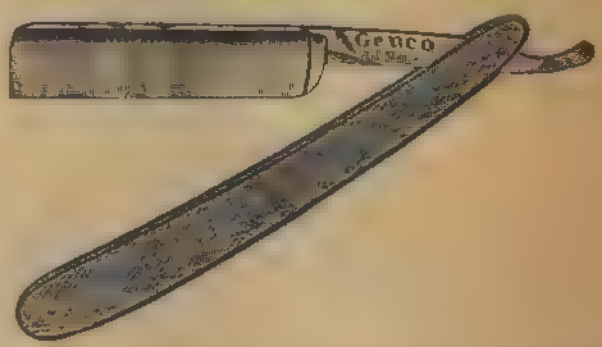
VANADIUM



Full concave with high wide bevel. Extra fine polish. Imitation tortoise shell handles.

No. 1332—Blade, ⅝-inch. Bullet or square point. Per dozen $50.00
No. 1333—Blade, ⅝-inch. Round point..... " 50.00

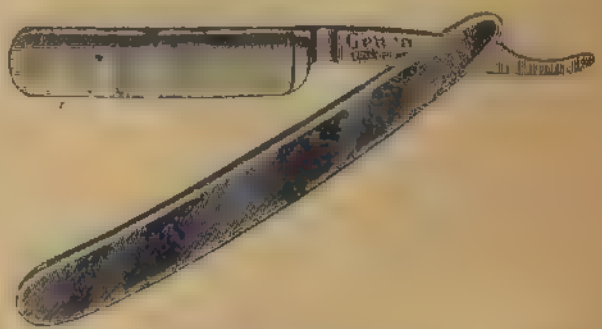
HEAD BARBER



Full concave blade with fine blue color. Crocus back and tang. Flat imitation oak handle.

No. 1326—Blade, ⅞-inch. Bullet or square point as shown in cut .....Per dozen $50 00

BULL DOG



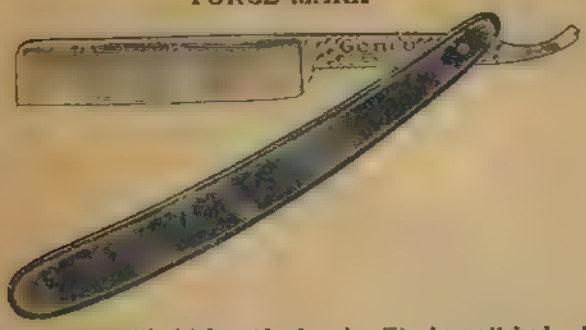
Half concave. Extra fine polish. Round back. Celluloid tang. Flat blue beveled edge, transparent handle.

No. 1337—Blade, ⅞-inch. Round point.....Per dozen $50 00

One in a box, one-half dozen in carton.

GENCO RAZORS

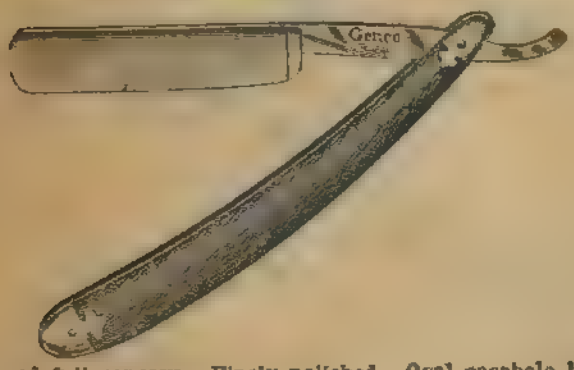
FORGE MARK



Full concave with high wide bevel. Finely polished. Tang unfinished, showing marks of forging. Heavy vulcanized black rubber handle, with flat, beveled edges.

No. 1330—Blade, ⅝-inch. Barber point.....Per dozen $60 00
No. 1331—Blade, ⅝-inch. Round point..... " 60.00

SENECA CHIEF



Ground full concave. Finely polished. Oval cocobolo handle, with metal tips.

No. 1334—Blade, ⅝-inch. Honed point.....Per dozen $50 00
No. 1335—Blade, ⅝-inch. Round point..... " 50 00

MASTER BARBER

Forged with oval tang. Ground full concave. Extra fine polish. Imitation ivory, flat surface handle with beveled edges and square ends.

No. 1328—Blade, ⅝-inch. Barbers point.....Per dozen $60 00

HENRYS XXX

Ground three-quarter concave with high thin bevel. Imitation gray pearl oval handle, with metal tips.

No. 1350—Blade, ⅞-inch. Honed point.....Per dozen $45 00
No. 1350—Blade, 6/8-inch. Honed point ..... " 45 00
No. 1351—Blade, ⅞-inch. Round point. ..... " 45 00
No. 1351—Blade, 6/8-inch. Round point..... " 45.00

HENRYS XX

Ground three-quarter concave with medium finish. Shell, oval handle with metal tips.

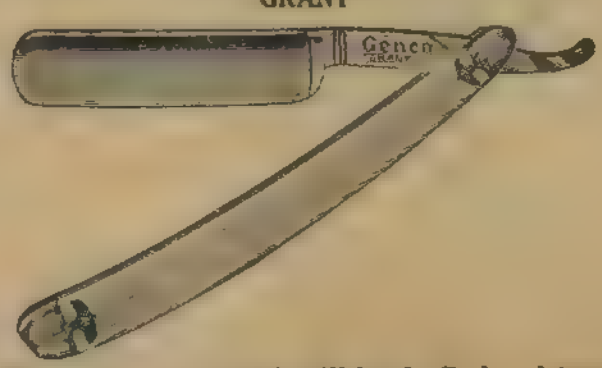
No. 1352—Blade, ⅞-inch. Honed point.....Per dozen $38 00
No. 1353—Blade, ⅞-inch. Round point..... " 38 00

LINCOLN

Ground special concave. Highly polished. Imitation ebony oval handle. Square ends, metal ornaments.

No. 1342—Blade, ⅝-inch. Honed point.....Per dozen $45 00
No. 1343—Blade, ⅝-inch. Round point ..... " 45 00

GRANT



Three-quarter concave, with stiff bevel. Back and tang crocused Imitation ivory handle with metal tips.

No. 1344—Blade, ⅞-inch. Honed point.....Per dozen $45.00
No. 1345—Blade, ⅞ inch. Round point..... " 45 00

Weight per dozen. 2 lbs. One in a box, one-half dozen in carton.

GENCO RAZORS

HEAVY

Half concave medium finish. Oval ebony metal tipped handle.

No. 1348—Blade, ⅞-inch. Honed point.....Per dozen $38 00
No. 1349—Blade, ⅞-inch. Round point..... " 38.00

HENRYS X

Half concave with medium finish. Oval black rubber handle.

No. 1354—Blade, ⅞-inch. Honed point.....Per dozen $32 00
No. 1355—Blade, ⅞-inch. Round point..... " 32.00

SAFEDGE

A Genco Razor with the safety feature. Contains no complicated parts requiring careful cleaning to avoid rust. Can be stropped and honed as easily and conveniently as an old fashioned razor Imitation Ivory handle. Each one in folding leather pocket case.

Per dozen $50.00

Weight per dozen, 2 lbs. One in a box, one-half dozen in carton.

IMPERIAL

Extra hollow ground. Round point, fully warranted. Oval black rubber handle.

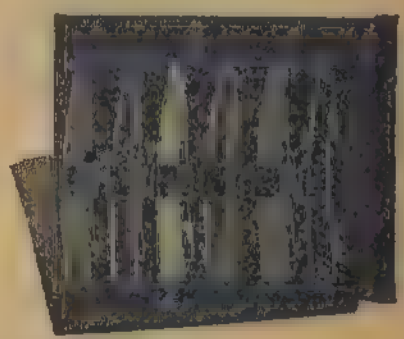
No. 240—Blade, ⅝-inch .....Per dozen $18.00

GENCO NO. 1 ASSORTMENTS

Substantially made of steel and finished in Circassian walnut. Assortment consists of the following razors:

1/12 dozen Genco Army and Navy Razors to retail at	Each	$5.00
1/12 dozen Genco Gold Seal Razors to retail at	"	5 00
⅙ dozen Genco Vanadium Razors to retail at	"	4 50
⅙ dozen Safege Razors to retail at	"	4 50
⅙ dozen Genco Grant Razors to retail at	"	4 50
⅙ dozen Genco Heavy Razors to retail at	"	3 00
⅙ dozen Genco Henrys X Razors to retail at	"	2 50
Total		$45 00

GENCO ALWIN ASSORTMENT



An assortment of one dozen razors of different style handles and finishes. One dozen in a fancy cardboard plush lined display case.

No. 10 .....Per assortment $24.00

An assortment of Razors in different styles, finishes and handles. Assorted width blades. In plush lined display pad.

SEXTOBLADE RAZORS

May Be Used as a Plain Razor or as a Safety

STYLE A

Consists of one white handle razor, six blades and safety guard, in plain box.

Style A ..... Each $3.00

Weight each, ¼ lb.

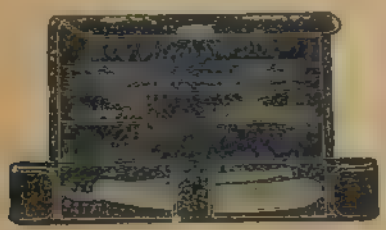
STYLE B

Complete with one white handle razor and guard, in 7 day leather case.

Style B ..... Each $4.00

Weight each, ½ lb.

STYLE C



Complete with razor and six blades, in black folding leather case.

Style C ..... Each $4.50

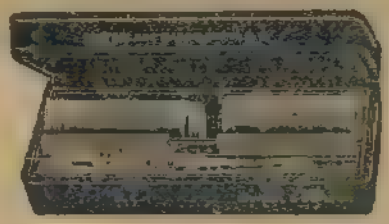
Weight each, ¾ lb.

EXTRA BLADES

No. 3—Three in a package..... Per package $0 30
No. 5—Five in a package..... .50

One dozen packages in a carton.
Weight per carton, ⅝ lb.

STYLE D

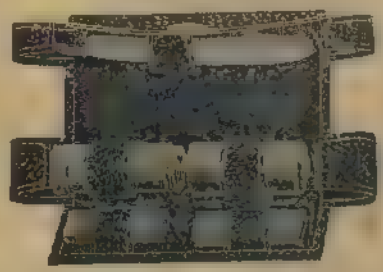


Complete with razor, six blades, collapsible shaving brush and soap in traveling case.

Style D ..... Each $6.50

Weight each, ¾ lb.

STYLE E

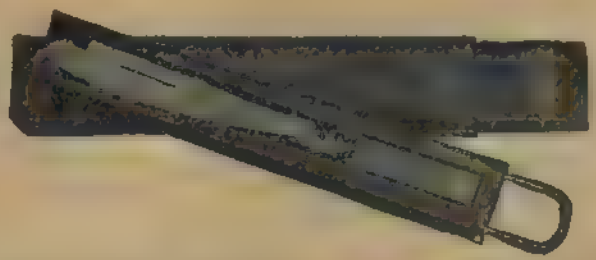


Morocco leather folding traveling case complete with razor, six blades, collapsible shaving brush and soap.

Style E ..... Each $7 50

Weight each, ⅝ lb.

STYLE H



Travelers cushion strop with collapsible handle and container for razor and blades.

Style H ..... Each $5 00

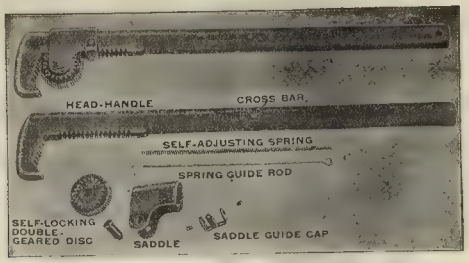
Weight each, ⅝ lb.

CUSHION STROPS

Nos.	209	210
Size, inch	10¼x1⅜	13⅝x1⅝
Weight per dozen, lbs	2¾	4½
Each	$1.00	1.50

One-half dozen in a box.

PIPE WRENCHES



CRAFT SELF-ADJUSTING

Combines the Grip of a Vise with the Smooth Operation of a Ratchet

Self-Adjusting: No Screwing or Locking by the Workman is needed. The Double-geared self-locking disc grabs hold instantly with a bull-dog grip; it cannot slip, either when first taking hold or under strain of pressure if properly applied; the harder you pull down on the handle the harder the disc wedges the pipe into the hook of the head.

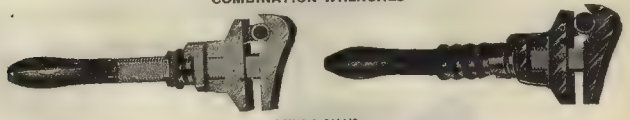
Made of Cold Rolled and Forged Steel of Special Analysis; Each of the six parts is Tempered and Treated for its Special Work.

	6C	8C	10C	14C	18C	24C
Size, Nos.	6	8	10	14	18	24
Size, In.	⅛	¼	⅜–½	¾–1	1¼–1½	2–2½
Taken Pipe, In.	⅛	¼	⅜–½	¾–1	1¼–1½	2–2½
Weight Each, About, Lbs.	⅛	1	2	2¾	4½	6½
Each	$1.60	2.00	2.40	3.00	4.00	6.70

EXTRA PARTS FOR THE CRAFT WRENCH

Head-Handle	$0.80	1.00	1.20	1.50	2.00	3.00
Gripping Disc	.60	.70	.80	1.10	1.40	2.00
Saddle	.10	.20	.30	.50	.60	.80
Saddle Cap	.10	.10	.10	.20	.20	.30
Guide Rod	.10	.10	.10	.10	.10	.20
Adjusting Spring	.10	.10	.10	.10	.20	.20

COMBINATION WRENCHES



BEMIS & CALL'S

Forged from Tool Steel; Polished Shank, Nut and Hardened Jaws; Extra Steel Grip, with Teeth on One End of Jaw for Pipe; Shank Extends Through Ferrule and Handle and Screwed to Cap at End; Polished Ferrule and Cap; Polished Hardwood Handle

SHORT NUT

	10	12	15
Length, In.	10	12	15
Adjustable To Pipe In.	⅛ to 1	⅛ to 1½	⅛ to 2¼
Weight per Dozen, Lbs.	25	36	52
No. 43—Bright, per Dozen	$28.00	34.00	45.00
No. 44—Black, per Dozen	$28.00	34.00	45.00
Extra Dogs or Grips, Each	.10	.12	.15

LONG NUT

	10	12	15
Length, In.	10	12	15
Adjustable To Pipe In.	⅛ to 1	⅛ to 1½	⅛ to 2¼
Weight per Dozen, Lbs.	25	36	52
No. 46—Black, per Dozen	$30.00	36.00	48.00
No. 45—Bright, per Dozen	$30.00	36.00	48.00
Extra Dogs or Grips, Each	.10	.12	.15

Half Dozen in Wooden Box

WRENCHES

COES' KEY MODEL

Especially Adapted for Heavy Construction Work, Steam Fitting, Etc., 48 in. Used by Garage Men for Straightening Automobile Axles

Made of Heavy Steel Forgings, Fully Hardened, Finest Engine Room Wrench ever made. The Key cannot come off, and the Two Positions of Jaw Strap assures its going into corners without trouble

Length, In.	28	36	48	72
Jaws Open, Inches	5⅛	6¼	9½	12¼
Weight Each, Lbs.	19	28	62	165
Each	$18.00	38 00	84.00	200.00

Open Stock

COES' GENUINE, Black

Forged from Tool Steel: Case Hardened Jaws, Shank Extends Through to End of Handle; Polished Malleable Iron Ferrules; Varnished Hardwood Grips Riveted to Handle with Heavy Iron Rivet; Steel Adjusting Screw

Length, In.	6	8	10	12	15	18	21
Jaws Open, In.	⅞	1¼	1⅝	2⅛	2⅝	3	4⅛
Weight per Dozen, Lbs.	9	13	25	36	57	75	108
Per Dozen	$15 00	18 00	22.00	28.00	38.00	48.00	58.00

6 to 12 in., Half-Dozen ;15 to 21 in., One-Third Dozen in a Box

COES' STEEL HANDLE

Suitable for Use in Steam, Hot or Cold Water, Mud, or for Dry Heats. For Service Where the Wood Handle Won't Do

Forged Steel Bar Head and Screw; Case Hardened Jaws, Steel Handle, 12 to 21 are made with Ball-Bearing Screw, which prevents it from catching dirt and rust

Length, In.	6	8	10	12	15	18	21
Jaws Open, In.	⅞	1¼	1⅝	2⅛	2⅝	3	4⅛
Weight per Dozen, about, Lbs.	10	17	26	43	62	89	121
Per Dozen	$15 00	18.00	22 00	28 00	38.00	48.00	58.00

6 to 12 in., Half-Dozen; 15 to 21 in., One-Third Dozen in a Box

TRIMO AUTO MONKEY

Drop Forged Steel, Case Hardened, Black Finish

	Per Dozen
No. 12A—12 in. Long; Weight per Dozen, about 15 Lbs.	$15 00

One-Half Dozen in a Box

WRENCHES

MACHINISTS' KNIFE HANDLE

Head and Bar Drop Forged in One Solid Piece from Selected Steel Case Hardened; Jaws Shank extends through to end of Handle; Varnished Hardwood Grips, Riveted to Handle with Heavy Iron Rivet, Deep Milled Screw Threads; Entire Wrench is Ground Polished and Highly Finished.

Nos.	6K	8K	10K	12K	15K	18K	21K
Length, In.	6	8	10	12	15	18	21
Jaws Open, In.	1	1⅛	1⅝	2⅛	2¾	3⅜	3¾
Weight per Dozen, Lbs.	10	14	31	38½	59	90	125½
Per Dozen	$15.00	18.00	22.00	28.00	38.00	48.00	58.00

6 to 12 in., Half-Dozen; 15 to 21 in., One-Third Dozen in a Wooden Box

INTERMEDIATE

Head and Bar Drop Forged in One Piece; Jaws Case Hardened; Iron Handle; Fitted with Easy Acting Screw

Nos.	6-I	8-I	10-I	12-I	15-I	18-I	21-I
Length, In.	6	8	10	12	15	18	21
Weight per Dozen, Lbs.	9½	16	27	39	58	90	112
Per Dozen	$15.00	18.00	22.00	28.00	38.00	48.00	58.00

6 to 12 in., Half-Dozen; 15 to 21 in., One-Third Dozen in a Wooden Box

REGULAR AGRICULTURAL

Extra Heavy Wrought Iron Bar and Head, Drop Forged in One Piece; Drop Milled Screw Thread; Shank extends through to End of Handle, Screwed to Cap at End; Plain Hardwood Grip

Nos.	6R	8R	10R	12R	15R
Length, In.	6	8	10	12	15
Jaws Open, In.	⅞	1⅛	1⅝	1¾	2¼
Weight per Dozen, Lbs.	9	16	22	26	39
Per Dozen	$10.00	12.00	14.00	18.00	24.00

Half-Dozen in a Package

No. 37—BEMIS & CALL SHORT NUT MONKEY

Very Strong and Durable; Adapted for Use of Large Mining and Industrial Companies

Black Finished; The Head, Bar and Shank in a One-Piece Steel Forging, Carefully Case Hardened; Hardwood Handle Securely Bound in Place by Ferrule and Cup Tip which prevents splitting

Nos.	10B	12B	15B
Length, In	10	12	15
Jaws Open, In.	1⅝	2¼	2¾
Weight per Dozen, Lbs.	19	30	45
Per Dozen	$14.00	16.00	24.00

Half-Dozen in a Box

WRENCHES

22½° Angle

ADJUSTABLE ENGINEERS'

CRESCENT, SINGLE END

For Use Around Automobiles, Gas Engines, Motor Boats, etc.

Highest Grade Drop Forged, Carbon Steel Handle, with Special Grade Alloy Steel Removable Jaws Hardened in Oil and Tempered; Full Polished except Web in Handle, which is Oil Finished.

Nos.	A14	A16	A18	A20
Length, In	4	6	8	10
Jaws Open, In	½	⅝	¾	1⅛
Weight Dozen, Lbs	1½	4	8	14
Per Dozen	$7 80	7.80	9.60	12 00
Nos.	**A112**	**A115**	**A118**	
Length, In	12	15	18	
Jaws Open, In	1⅝	1⅝	2⅛	
Weight Dozen, Lbs	24	32	84	
Per Dozen	$18.00	27.00	39.00	

One-Twelfth Dozen in a Box

CRESCENT, DOUBLE END

For Use Around Automobiles, Gas Engines, Motor Boats, etc.

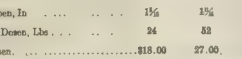
Highest Grade Drop Forged, Carbon Steel Handle, with Special Grade Alloy Steel Removable Jaws, Hardened in Oil and Tempered; Full Polished except Web in Handle, which is Oil Finished

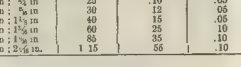
Nos.	B168	B1810
Length, In	6 to 8	8 to 10
Jaws Open, In	¾-⅞	⅞-1⅛
Weight Dozen, Lbs	8¼	13
Per Dozen	$16.00	18.00

One-twelfth Dozen in a Box

EXTRA PARTS FOR CRESCENT WRENCHES

Size of Wrench and Opening of Jaw	No. 2 Jaw	No. 3 Thumb-Screw	No. 4 Pin	No. 5 Spring
4 in ; ½ in	$0 25	$0 10	$0 05	$0 05
6 in ; ¾ in	25	.10	.05	.05
8 in ; ⅞ in	30	12	.05	.05
10 in ; 1⅛ in	40	15	.05	.05
12 in ; 1⅝ in	60	25	.10	.05
15 in ; 1⅞ in	85	35	.10	.05
18 in ; 2⅛ in.	1 15	55	.10	.05





MOTOR

For Automobiles, Motorcycles, Motor Boats, Gasoline Engines, etc.

Made from the Best of Material and Carefully Tempered. Handle and Head Highly Polished.

The Head is set on an Angle of 22° and is provided with a Straight Handle; the Jaws are made Thin enough for cheek nuts and close contracted spaces, and are Adapted for Hexagon as well as Square Nuts.

Size Nos.	88-4	88-6	88-8	88-10	88-12
Length, In	4	6	8	10	12
Capacity, In	⅜	½	⅝	1⅛	1⅝
Weight Dozen, Lbs	2½	4½	6½	16	26
Per Dozen	$7.80	7.80	9.00	12.00	15.00

B. & S. CRESCENT PATTERN

For Automobiles, Motorcycles, Motor Boats, Gasoline Engines, etc.

A new and improved design, combining Strength and Utility Drop Forged Throughout and Specially Heat-treated

Sizes, Nos.	98-6	98-8	98-10
Length In	6	8	10
Capacity, In	1⅛	1⅛	1⅝
Weight Dozen, Lbs	7½	14½	25½
Per Dozen	$10.00	12 00	18.00

WESTCOTT'S

Polished and Hardened Cast Steel Jaws; Japanned Finished Handles; Knurled Adjusting Screw; Sliding Jaw Works on Ground Surface in Hollow Part of Head

ADJUSTABLE S

Nos.	8WS	8WS	10WS	12WS
Length, In	6	8	10	12
Jaws Open In	⅝	1	1⅜	1⅝
Weight Dozen, Lbs.	5½	13	23	37
Per Dozen	$8 00	10.00	12.00	15.00

ADJUSTABLE PIPE

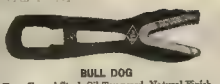
Nos.	8WP	10WP
Length, In	8	10
Holds Pipe, In	⅛ to ¾	⅛ to 1
Weight Dozen, Lbs	13	23
Per Dozen	$10.00	12.00

UNIVERSAL

An Indispensable Tool to Farmers and Blacksmiths; Removes Never-Slip Calks, Bolts, Nuts, Etc.

Drop Forged Steel, Tempered, Polished Jaws, Milled Teeth, Ground and Hardened, Blued Finish

	Per Dozen
No. A -7¾ in. Long, Jaw Opening 1 to 1⅝ in.; Holds ⅜ to ¾ in. Pipe; Threads ⅝-18, ⅜-16 and ½-13 U. S Standard Half-Dozen in a Box; Weight per Dozen, 11 Lbs.	$8 00

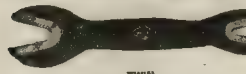


BULL DOG

Drop Forged Steel, Oil Tempered, Nickel Plated

Nos.	1	1½	1¾
Length, In.	6¾	9½	11½
Holds Pipe, In.	⅛ to ¾	⅛ to ⅞	⅛ to 1¼
Holds Round Iron, In.	¼ to ⅝	⅜ to ¾	⅜ to 1⅛
Weight Dozen, Lbs.	23½	38½	65¼
Per Dozen	$4 00	4 50	8.00

No. 1, One Dozen, Nos. 1½ and 1¾, Half-Dozen in a Box.
No. 1 has Flat Jaw; Nos. 1½ and 1¾ have Flanged Jaws.

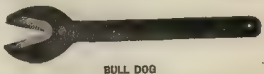


TWIN

Drop Forged Steel, Oil Tempered, Natural Finish

No.	100
Length, In.	10
Holds Pipe, In.	⅛ to ¾
Holds Round Iron, In.	¼ to 1
Weight per Dozen, Lbs.	11½
Per Dozen	$18.00

Half-Dozen in a Box



BULL DOG

Drop Forged Steel, Oil Tempered, Natural Finish

Nos.	2	3	4
Length, In.	9	10	22
Holds, Pipe, In.	⅛ to ¾	⅛ to 1⅛	1¼ to 2
Holds Round Iron, In.	⅛ to 1	¾ to 1⅜	1¾ to 2¾
Weight per Dozen, Lbs.	24	36	77½
Per Dozen	$12 00	24 00	36.00

No. 2, Half-Dozen; Balance, Open Stock

ALWAYS READY

Made from High Carbon Steel, of Special Analysis, Forged and Tempered in Oil

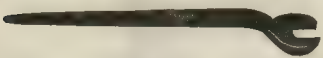
Bark Finish; Polished Jaws

Nos.	1AR	2AR	2½AR	3AR
Length, In.	5	7	9½	11½
Holds Nut or Pipe, In.	¼ to ¾	¼ to 1¼	¼ to 1⅝	¾ to 2
Weight Dozen, Lbs.	5½	9¾	20½	28½
Per Dozen	$4.60	6 30	10 00	15 25

Polished and Nickel Plated

Nos.	10AR	20AR	25AR	30AR
Length, In.	5	7	9½	11½
Holds Nut or Pipe, In.	¼ to ¾	¼ to 1¼	¼ to 1⅝	¾ to 2
Weight Dozen, Lbs.	5½	10½	20½	28½
Per Dozen	$5 00	6 75	10.50	16 00

Half-Dozen in a Box



STRUCTURAL

Round Tang, Pointed; Straight Opening; Offset Head

Forged Steel, Black Finish. The Round Tang is for Bringing Bolt and Rivet into Line. The correct tool for use in the construction of roofs, bridges, ship building, cars, etc., and can be inserted into convenient openings when wrench is not in use, always keeping tool in sight and preventing loss.

Nos.	479	479	480	481	482
For U. S. Standard Nuts; Bolt Sizes	¼	⅜	½	⅝	¾
Milled Opening, In.	1⅛	⅜	½	⅝	⅞
Length Overall, In.	8	8	9½	9½	11½
Thickness Head, In.	1½	1⅛	1⅜	1⅜	1⅝
Each	$0 33	.33	.40	.40	.52

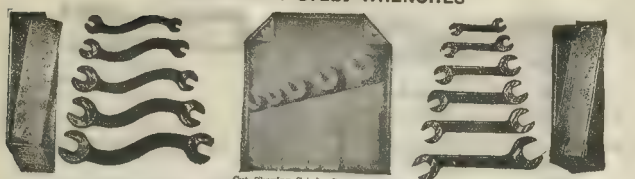
Nos.	483	484	485	486	487
For U. S. Standard Nuts; Bolt Sizes	¾	⅞	¾	⅞	1
Milled Opening, In.	1	1⅛	1⅛	1⅛	1⅜
Length Overall, In.	12½	14½	16	17½	19
Thickness Head, In.	1⅝	⅞	¾	⅞	⅞
Each	$0.52	.74	1.02	1.40	1.70

VICTOR ADJUSTABLE

Handle and Jaws Drop Forged from Highest Grade Crucible Tool Steel, Jaws Hardened, Smooth Jaw and Handle in One Piece; Adjustable Toothed Jaw, regulated by Knurled Adjusting Screw in Frame, which can be replaced in case of wear or breakage; Malleable Iron Frame, All Parts held by Steel Screws.

	Per Dozen
No. 1—Black Finish; 7 in. Long; ¾ in. Thick; Holds Pipe up to ⅝ in. and Nuts up to ¾ in. One in a Box; Weight per Dozen about 9 Lbs.	$10.00
Extra Removable Jaws for above Wrench	3.00

DROP FORGED STEEL WRENCHES



Cut Showing Set in Canvas Rolls

GENERAL PURPOSE WRENCHES

For Use in Erecting or Dismantling Plows, Wagons, etc.

Size Nos	500	501	502	503	504
Length, In.	6¼	7⅛	8¼	9⅝	10⅝
Thickness of Head, In.	⅝	¾	⅞	1	1⅛
Milled Opening, In.	⅞, ⅝	⅛, ¾	1, ⅞	1⅛, 1	1¼, 1⅛
Mfg. Stand. Nuts; Bolt Sizes, In.	¾, ⅝	⅞, ¾	1, ⅞	1⅛, 1	1¼, 1⅛
Weight Dozen, Lbs.	3½	5¼	8	12¼	17
Unfinished, Each	$0.18	.23	.39	.56	.90
Semi-finished, Each	.27	.34	.43	.55	.70
Finished, Each	.35	.47	.58	.72	.90

GENERAL PURPOSE WRENCHES IN SETS

One Each, Nos. 500, 501, 502, 503, 504

	Per Set
No. 1 —Unfinished; In Neat Wooden Box	$3.74
No. 1½—Unfinished; In Canvas Roll	3.74
No. 2 —Semi-finished; In Neat Wooden Box	2.45
No. 2½—Semi-finished; In Canvas Roll	2.74
No. 3 —Finished; In Neat Wooden Box	3.21
No. 3½—Finished; In Canvas Roll	3.50

Weight per Set About 3 Lbs.

MACHINISTS' WRENCHES

22½° Angle, Double Head, for U. S. Standard Hexagon Nuts

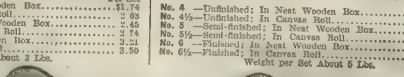
Size, Nos.	550	551	552	553	554	555
Length, In.	4½	5¾	7	8	9¼	10¼
Thickness, Head, In.	¼	⅜	½	⅝	¾	⅞
Milled Opening, In.	½, ⅜	⅝, ½	¾, ⅝	⅞, ¾	1, ⅞	1⅛, 1
Bolt Sizes, In.	⅜, ¼	½, ⅜	⅝, ½	¾, ⅝	⅞, ¾	1, ⅞
Weight Dozen, Lbs.	2¾	5¾	9	15¼	21½	31
Unfinished, Each	.80	.97	1.17	1.46	1.75	2.05
Semi-finished, Each	.27	.37	.46	.56	.68	.80
Finished, Each	.38	.46	.60	.73	1.08	1.40

MACHINISTS' WRENCHES IN SETS

One Each, Nos 550, 551, 552, 553, 554, 555

	Per Set
No. 4 —Unfinished; In Neat Wooden Box	$2.35
No. 4½—Unfinished; In Canvas Roll	2.64
No. 5 —Semi-finished; In Neat Wooden Box	2.33
No. 5½—Semi-finished; In Canvas Roll	3.62
No. 6 —Finished; In Neat Wooden Box	4.33
No. 6½—Finished; In Canvas Roll	0.12

Weight per Set About 5 Lbs.



DOUBLE END WRENCHES

15° Angle; For U. S. Standard Nuts, Either Square or Hexagon

Size, Nos.	29	30	33	34	37	39	40	41
U. S. Standard Nuts, Bolt Sizes.	¾, ⅝	⅞, ¾	⅞, ⅞	1, ⅞	1⅛, 1	1¼, 1⅛	1⅜, 1¼	1½, 1⅜
Milled Opening, In.	⅞, ¾	1, ⅞	1⅛, 1	1¼, 1⅛	1⅜, 1¼	1½, 1⅜	1⅝, 1½	1¾, 1⅝
Length Over-All, In.	4⅝	5⅜	6⅛	6¾	7⅜	8	8⅝	9⅜
Thickness of Head, In.	⅞	⅞	1	1⅛	1¼	1⅜	1½	1⅝
Weight Dozen, Lbs.	5½	7¼	9¾	12¾	16¾	21¾	27½	34¼
Unfinished, Each	$0.17	.20	.27	.36	.46	.58	.73	.93
Semi-finished, Each	.25	.30	.37	.46	.58	1.00	1.40	1.40
Finished, Each	.35	.42	.55	.68	.98	1.40	1.90	1.90
Size, Nos.	42	43	44	45	46	47	48	49
U. S. Standard Nuts, Bolt Sizes.	1¾, 1⅝	1, 1¼	1¼, 1⅛	1⅜, 1¼	1⅜, 1⅜	1¾, 1⅝	1¾, 1½	1⅞, 1¾
Milled Opening, In.	1⅞, 1¾	1⅝, 1½	1¾, 2	1¼, 2⅛	1¼, 2⅜	2, 2⅛	2, 2⅜	2⅛, 2⅜
Length Over-All, In.	10⅛	10⅞	10¾	11¾	11¾	12¾	13¼	13¾
Thickness of Head, In.	1⅞	1⅞	1⅞	1⅞	1 1/16	1 1/16	1 1/16	1 1/16
Weight Dozen, Lbs.	45	55	67	87	113½	140	140	140
Unfinished, Each	$1.90	1.90	2.60	3.80	3.80	5.90	5.90	5.90
Semi-finished, Each	2.85	2.85	3.60	5.25	5.25	7.00	7.00	7.00

Open Stock

SINGLE END WRENCHES, SEMI-FINISHED

15° Angle; For U. S. Standard Nuts, Either Square or Hexagon

Size, Nos.	3	4	5	7	8	9	10	11	12	13	14
U. S. Standard Nuts, Bolt Sizes	⅜	7/16	½	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½
Milled Opening, In.	11/16	¾	13/16	1	1⅛	1¼	1⅜	1½	1⅝	1¾	1⅞
Length Over-All, In.	3⅝	4⅛	4⅝	5⅜	6	6¾	7⅜	8	8⅝	9⅜	10⅛
Thickness of Head, In.	9/64	5/32	11/64	13/64	15/64	17/64	19/64	21/64	23/64	25/64	27/64
Weight Dozen, Lbs.	1½	2	2½	3½	5	7	9¾	13	17½	22½	28½
Each	$0.26	.32	.38	.57	.75	1.15	1.60	2.10	2.85	3.65	4.60

Open Stock

GALVANIZED WIRE CLOTHES LINES

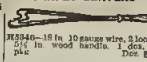
STAR VALUE 6 Strands—Galvanized wire, braided, guaranteed full north w. and number of strands.

Length	Gauge in Set	Doz
H5703	36 ft. ...20 25 ...	$2.25
H5704— 60 "	20 25 "	2.40
H5705— 90 "	20 25 "	2.95
H5706— 75 "	20 25 "	3.10
H5707—100 "	20 25 "	3.90
H5708—100 "	18 17 "	4.75

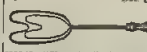
H5709—75 ft. light, solid 9 gauge heavy galvanized wire, will outlast any other line. Wrapped in a doz. in box. Doz $4.95

OUR TERMS
2% 10 DAYS
1% 30 Days
Net 60 Days

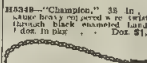
CARPET BEATERS



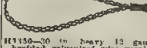
H5340—18 in. 10 gauge wire, 3 loops, 5½ in. wood handle. 1 doz. in pkg. Doz 87c



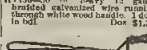
H5338—"Champion," 38 in. 10 gauge heavy reversed wire twisted through black enameled handle. 1 doz. in pkg. Doz. $1.20



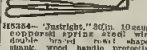
H5150—36 in. heavy 12 gauge braided galvanized wire running through white wood handle. 1 doz. in bdl. Doz $1.25



H5364—"Justright," 36in. 10 gauge coppered spring steel wire double braid oval shaped shank, wood handle protecting knuckles. 1 doz. in bdl. Doz $1.44



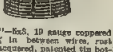
H5351—30 in., 13 gauge retinned steel spring wire twisted through wh. c wood handle. 1 doz. in pkg. Doz 87c



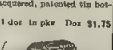
H5355—Holt & Lyon, 34½ in. hagnsi ston, 10 gauge retinned steel spring wire, twisted through white wood handle. 1 doz. in bdl. Doz $2.95

MOUSE TRAPS

"Midget"—6x3, 19 gauge coppered wire, ¾ in between wires, rust proof, lacquered, patented tin bottom.
H5475—1 doz. in pkg. Doz $1.75



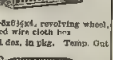
"Fairy"—8x3½x4, revolving wheel, galvanized wire cloth box
H5497—1 doz. in pkg. Temp. Out



"French"—6x4½x4, coppered spring wire interlocking ribs self setting
H5489—½ doz. in pkg. Temp. Out

"French"—15x8½x7-4, heavy coppered spring wire, interlocking ribs, self setting
H5475—½ doz. in crate, 15 lbs. Doz $6.00

"BELMONT" RAT TRAP



H5473 Each 17 ½ ... heavy coppered spring wire, interlocking ribs self setting. ½ doz. in crate, 20 lbs. ... Doz $7.95

SOAP DISHES

Hanging and Stand—5x3½, reinforced wire, round bottom, loop hangers, 4 feet.
H5415—1 doz. in pkg. Temp. Out

Combination Hanging—6 gauge oval wire, tooth and nail brush supports, braced sides, loop for hanging
H5648—1 dz. in pkg. Dz Temp Out

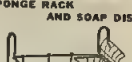
Double Faucet—3x3½, close mesh, polished wire, hangs bowl and rod, 3 wire faucets.
H5816—4 doz. in box... Doz 87c

Bath Tub—6x3½ in. nickeled
H5431—3 doz. in box... Doz. $1.08

Single Faucet—6x3½, heavy retinned wire, electrically welded, for kitchen sink.
H5815—4 doz. in pkg... Doz $1.20

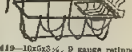
Bath Tub ... 4 while retinned ... in flat wire loop on, copper w.re, outer rim, curved back, flat edge of tub.
H5417 1 doz. in box. Doz $1.08

SPONGE RACK AND SOAP DISH



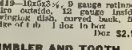
H5419—10x5x3-4, 9 gauge retinned wire outside, 12 gauge inside, nickeled dish, curved back, flat edge of tub. 1 doz in box Doz $2.10

TUMBLER AND TOOTH BRUSH RACK



H5079— 3½ x 2¾, retinned wire, strong wire end & dog in box Doz 60c Gro. $6.75

HANGERS FOR CHINA



H5600 H5601

Plate—6x3½, steel spring wire H5600—7 doz. in box Temp Out Total

Cup and Saucer—6x3½, steel spring wire retinned made singly but may be hooked together to any length H5601 2 doz in box Doz 42c Total 840

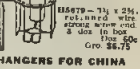
RUBBER COVERED EASELS

H5600 H5607

Salad Bowl—8x3½, 12 gauge steel wire smooth rubber covered. H5600—1 doz. in box . .Doz. 75c

Plate or Picture—5½x3½ 11 gauge steel wire, smooth rubber covered. H5607—1 doz. in box. . .Doz. 96c

PUNCH BOWL HOOK



H5601—13 gauge retinned wire, for hanging cups on punch bowls. 1 gro. in box.... .Temp. Out

FOLDING CARD RACKS

Polished heavy wire, spaces for letters photographs postals etc. 1 doz in box

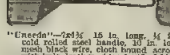
Holders		
H5620—12x5	24	Doz $0.84
H5621	18x18	36 " .95
H5622—22x16	55	" 1.33
H5623	28x15	72 " 1.44

FLY SWATTERS

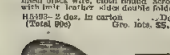
A line that has been greatly improved for this season. A variety display in a prominent place in your store will quicken sales—fly swatters are salable in almost any store. The profits are worth while when you depend on this source of supply for your stock. We save you money. Make a comparison now.

FLY SWATTERS

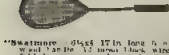
"Eneeda"—7x3½, 15 in. long, ¾ in. flat cold rolled steel handle, 10 in. long, 14 mesh black wire, cloth bound across and with twelve leather sides double folded
H5493—2 doz. in carton . . .Doz. 45c (Total 900) Gro. lots. $5.15



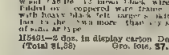
"Kahl-Miss—8x4¾, 24 in. long, 17 in. heavy tinned wire handle, 12 mesh black wire cloth, sides and sides double folded and bound with black cloth full double stitched
H5078—2 doz. in display carton. Doz. $4.80 (Total $1.080) Gro. lots. $9.60



"Swatmore"—8½x4 17 in. long 5 in. black wood handle 12 mesh black wire cloth folded on coppered wire frame bound with heavy black felt, larger than our line to be sold much more than any swatter of similar price
H5601—3 doz. in display carton Doz. 89c (Total $1.68) Gro. lots. $7.75



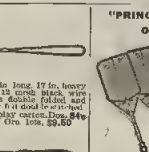
"Yankee"—8x4½, 27 in. long, 10 in. heavy tinned wire handle, 12 mesh black wire cloth, and sides double folded and bound with high grade double stitched felt
H5490—3 doz. in display carton Doz. 72c Total $1.44 Gro. lots. $8.00



"King"—8x4 17 in long 5 in. black wood handle 12 mesh black wire cloth and sides folded double stitched felt
H5481 3 doz. in carton Doz 92c (Total $1.84 Gro. lots $10.50

"Queen" 8x4 ... long ... black steam cord wood ... 12 mesh black wire cloth, ... sides folded and sewed with heavy black felt ... staples and
H5446 ... Doz 95c (Total $1 90) Gro. lots $10 75

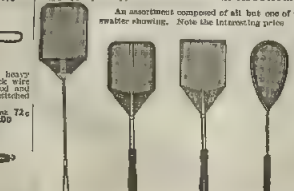
"PRINCESS" FLY SWATTER On Display Stand



H5487—8½x4¼, 14 mesh black wire cloth bound with black felt, 24 in. gold rolled steel shank, 5 in. black enameled handle. 1 doz in carton. With display stand. Doz. 87c

FLY SWATTER ASSORTMENT

An assortment composed of all but one of the numbers in our complete fly swatter showing. Note the interesting price

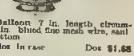


H5498—Comprises the best ... ing numbers on the market at a special assortment price ... 1 minute ... 1 doz. each of the following numbers: ... Yankee ... H5418 ... Queen ... H5481 ... King ... H5487 ... Princess ... 12 in all ... Complete ... Gro. lots $5.00

WIRE FLY TRAPS

"Original" Balloon—7 in. length, circumference 16 in. blued fine mesh wire, sanitary tin bottom
H5445—1 doz. in case Doz $1.68

"Eagle"—9¼ in high 4 in. diam. top 6 in. diam. bottom extra size, best materials sanitary tin bottom
H5446—1 doz. in case. Doz. $2.40



Large Size—... high ... diam. top ... in. bottom ... mesh galvanized cloth aluminized wire ... Doz $3.75 Total $ ...

BIRD CAGES & CAGE SPRINGS

Compare the prices we name here with what you would have to pay for the same goods elsewhere Note the big value assortments extensive variety with little investment Buy here—we can save you money

HENDRYX BIRD CAGE ASSTS.

H5630

H5634

H5638

H5636

H5630—6 styles, 3 square 7½x7½x16, 8x8x15½ and 8½x8½x15 in., 3 oblong 9½x6½x16½, 8½x8½x15½ and 11½x7½ inch sizes, white painted birds & white roof & white and green & white; charcoal tin bottoms, double wood-ed rails, self locking sliding door fastener, parchet cut & slotted cups. 6 in case 25 lbs Each $1.50

Total $9.00

H5634—6 oblong styles, 11x7½x16½, 11" x 16 x 18½, 8" x 17½ x 18½, 12x8½x18 and 11x8½x18 inch size spring wire Japanned and painted roofs, red trays and blue charcoal tin bottom double punched rails, self locking sprite door fastener parchets and cups in each 3 lbs Each $2.25

Total $13.50

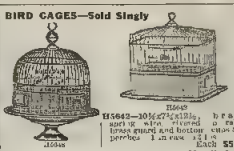
H5638—6 oblong styles, 9x8x16, 9½x8½x18½ and 10½x7½x18½, solid brass wire, lacquered riveted to rails, no solder brass bottom, satin finish tin inside tray patent spring door fastener, extra swings and metal tipped cedar perches patent opal seed cups. 6 in case 25 lbs Each, $2.40

Total $14.40

H5636—3 oblong styles, 3 each, 9x8x15, 9½x8½x18½ and 10½x7½x18½, solid brass wire, lacquered riveted to rails, no solder brass bottom, satin finish tin inside tray patent spring door fastener, extra swings and metal tipped cedar perches patent opal seed cups. 6 in case 25 lbs. Each, $2.25

Total $13.50

BIRD CAGES—Sold Singly



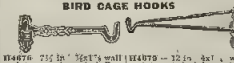
H5646

H5649

H5646—11x11x18½, brass spring wire solid rail, brass guard spun brass guard, satin finish white enamaled inside tray, cups, perches and swing 1 in case, 15 lbs Each $7.50

H5642—10½x7½x18½, brass spring wire riveted to rails brass guard and bottom wire and perches 1 in case 12 lbs Each $5.50

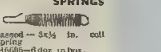
BIRD CAGE HOOKS



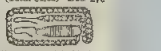
H4676—7½ in., 16 gauge nickel plate cast iron dark Berlin bronze finish swings in pockets 1 doz. in box Doz. 45c

H4679—12 in., 4x1 in., 16 gauge nickel plate polished brazed hook, Ashestos wood thread, swings in socket 1 doz. in box Doz. $1.35

BIRD CAGE SPRINGS



Brassed — 3x½ in. coil spring H5636—6 doz. in box. (Total $1.62) Doz. 27c



Solid Brass, with Chain—1¾" in coil 3/8" in. 12 in chain H5697 1 doz. in box Doz. $2.25

★ *Prices marked with a star (as ★80 are "special" for the current month. See "Standator Pages*

CLOTHES HANGERS

These items pile up a surprising total of sales in a season's time. Our own enormous business, larger than any other distributors, is due to our offering better values

WOOD CLOTHES HANGER

H5507—Stained and waxed finish 17 in round wood hanger, coppered hook 100 in crate Per 100, $3.50 Lots of 1 M, $33.00

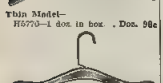
WOOD COMBINATION COAT AND TROUSERS HANGER

H5509 17 in dark grade stained hardwood bars, chrome, with hook inserted trousers bar 1 doz. in box Doz 96c

FANCY ENAMELED COAT HANGERS

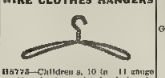
Selected hardwood superior baked enameled equally assid white, pink, blue and lavender

Thin Model—
H5770—1 doz. in box . Doz. 96c

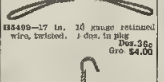


Shaped Model—
H5775—1 doz. in box Doz. $1.50

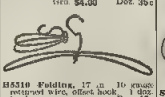
WIRE CLOTHES HANGERS



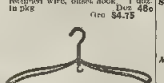
H5778—Children s, 10 in 11 gauge retinned wire, twisted 1 doz in pkg. . . . Doz. 29c
Gro $3.25



H5489—17 in, 16 gauge retinned wire, twisted, 1 doz. in pkg Doz. 36c
Gro $4.00



H5495—17 in., 10 gauge, 1 pc tinned twisted wire 1 doz in pkg Gro $4.80 Doz. 35c

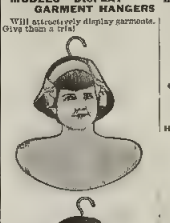


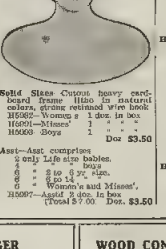
H5510 Folding, 17 in 16 gauge retinned wire, offset hook 1 doz in pkg Doz 46c
Gro $4.75

H5502—Folding, 17 in , 9 gauge, nickeled wire, offset hook 1 doz. in box . . . . . Doz $1.05

"MODELO" DISPLAY GARMENT HANGERS

Will attractively display garments. Give them a trial





Solid Sizes Custom heavy cardboard frame H500 in natural colors, giving retinned wire hook

H5502—Young s 1 doz. in box
H5501—Misses' 1 " "
H5503 Boys 1 " "
Doz $3.50

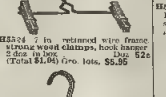
Asst—Asst comprises
2 only Life size babies.
4 " Boys
6 " 2 to 6 yrs. age.
6 " 6 to 14 "
6 " Women's and Misses',
H5507—Assid 2 doz. in box
(Total $7.00 Doz. $3.50

COMBINATION WIRE CLOTHES HANGER

H5772—17 in., 10 mugge twisted wire, offset hook, lower bar with wood trousers or skirt clamps 1 doz. in pkg. Gro. Temp Out

TROUSERS OR SKIRT HANGERS

H5515—7 in. retinned wire frame, wood clamps, loop hanger 2 doz in box Doz 36c
(Total 72c) Gro. lots, $4.10

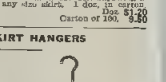


H5324 7 in retinned wire frame, nickel wood clamps, hook hanger 2 doz in box Doz 52c
(Total $1.56) Gro lots, $5.95

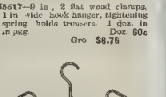
H5505—Faultless 8 in. waxed hardwood, 9 in spring hook running through frame, sliding clamp holds garments tight felt pad ends 2 doz. in box. Doz. 52c
(Total $1.04)

COMBINATION SUIT AND SKIRT HANGER

H6355—Heavy 8gauge retinned wire 18 in Hardwood self adjusting to any size skirt. 1 doz. in carton. Doz $1.20
Carton of 100, $9.50



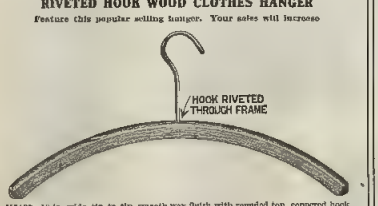
H5517—9 in , 2 flat wood clamps, 1 in wide hook hanger, tightening spring holds trousers 1 doz. in pkg Doz 80c
Gro $8.75



HN949 A metal hanger made of heavily tinned wire, self adjusting to any size skirt 1 doz in pkg Doz 89c

RIVETED HOOK WOOD CLOTHES HANGER

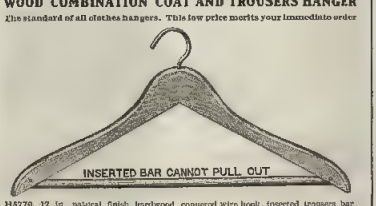
Feature this popular selling hanger. Your sales will increase



H5497 16 in wide sip to tip, smooth wax finish with rounded top coppered hook 100 in carton.
LOTS of 1M, **$33.00** CARTON of 100, **$3.50** LOTS of 1 doz , Doz. **43c**

WOOD COMBINATION COAT AND TROUSERS HANGER

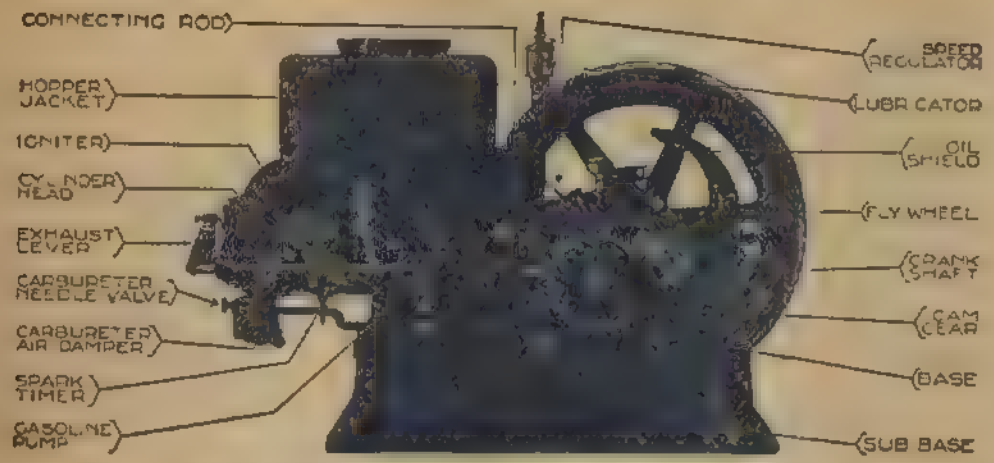
The standard of all clothes hangers. This low price merits your immediate order



H5770 17 in natural finish hardwood coppered wire hook, inserted trousers bar 100 in carton
LOTS of 1M **$65.00** CARTON of 100, **$6.75** LOTS of 1 doz., Doz. **89c**

THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES

MAROON LINE



Engine with fly wheel removed, showing working parts

The Alamo Type M Engine is the result of fifteen years of gasoline engine experience combined with engineering skill and the best factory practice. They are of the well known four-stroke cycle type, governed by the hit and miss principle, which is acknowledged the most satisfactory for general service and most economical in fuel.

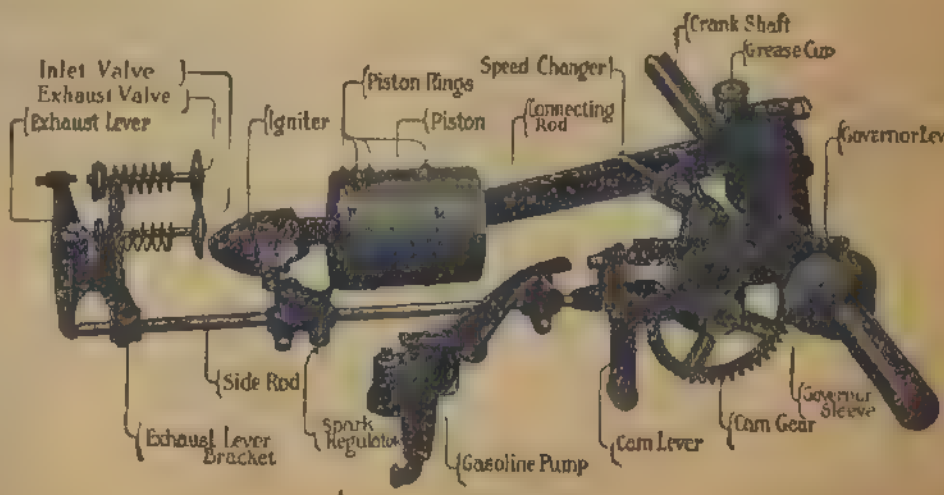
The engines are all attractive in appearance, symmetrical in design and substantial in operation, with liberal bearing surface for all moving parts. They have large hopper jackets, require a minimum amount of water for cooling, have electrical make and break system of ignition, which is the most simple and reliable for ordinary service. They are manufactured by modern methods in our up-to-date factory equipped with the latest and most efficient machine tools. Nothing but the highest grade material enters in their construction, and the workmanship is of the highest quality.

The Alamo Type M Engine has no parts that are not necessary, and nothing has been left off that would add to its service. All unnecessary parts have been eliminated and all complication simplified. All parts are made with ample weight and strength where they are subject to wear. All working parts are in plain sight so that the few adjustments that may be required can be made with ease and with the most simple tools. No special mechanical skill is required to operate an Alamo engine, and plainly written instructions accompany every engine, so that no former knowledge of machinery is required to handle these engines with ease.

The plain view at the side gives good idea of the simplicity of design. It also shows the distribution of metal, heavy bearings set at a thirty degree angle and the substantial design of the base between the cylinder and main bearings, where the greatest strength is required.

Perfect Balance—**All Alamo Type Engines are properly balanced. Having an engine in perfect balance eliminates much trouble and annoyance. It is not necessary to bolt down an Alamo Engine, and the portables do not require special braces or pits for the truck wheels. Vibration and wear of the working parts is reduced to a minimum.**

Governor—**All Type M Engines govern by the hit and miss principle, which is now recognized as the most satisfactory manner to govern engines for general hard service. It permits the engine when running on light load to run with a minimum amount of fuel and with the fly wheel, perfectly balanced, and correct working governor, the regulation of speed is exceptionally close.**



THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES

MAROON LINE

Illustrating the 2½ Horsepower Engine. Skids Extra

The Governor is of centrifugal type. On engines smaller than 9 H. P. the governor is mounted in the fly wheel. The larger sized engines have a fly ball gear driven governor. All have speed regulator so the speed may be varied about 25 per cent while the engine is in motion, and permits the engine to be regulated instantly to the proper speed for various machines.

Gears and Cam—Only two gears and one cam are used on the Alamo Type M Engine. The gears are machine cut and the cam is ground on a specially designed machine to exact size, to insure the perfect movement of the valves and igniter.

Gasoline Pump—The Gasoline Pump is unique in construction, being operated by a lever so curved as to make its action noiseless. The pump has no packing whatever, and as it is placed slightly above the level of the carburetor, there is no possible chance for any leak of gasoline. The plunger can be easily removed and the ball valve examined without disturbing other working parts of the pump. The gasoline pump for larger engines is slightly different in design and has more capacity.

Cylinder, Piston and Rings—All cylinders are cast from a special mixture of charcoal iron, which makes a casting of great strength, density and of the greatest wearing qualities. The cylinders are of a pattern which permits of perfect and equal expansion of the cylinder walls so that the cylinder remains perfectly round and straight under all conditions. The cylinder head is also thoroughly jacketed, and provided with large valves. The valves have cast iron heads and nickel steel stems.

The piston is of the trunk pattern, ample length, carefully machined and ground to size. All sizes are provided with four expansion rings perfectly fitted to the grooves in the piston andpinned in place. Oil grooves are also provided to make certain of perfect lubrication of all parts of the piston rings.

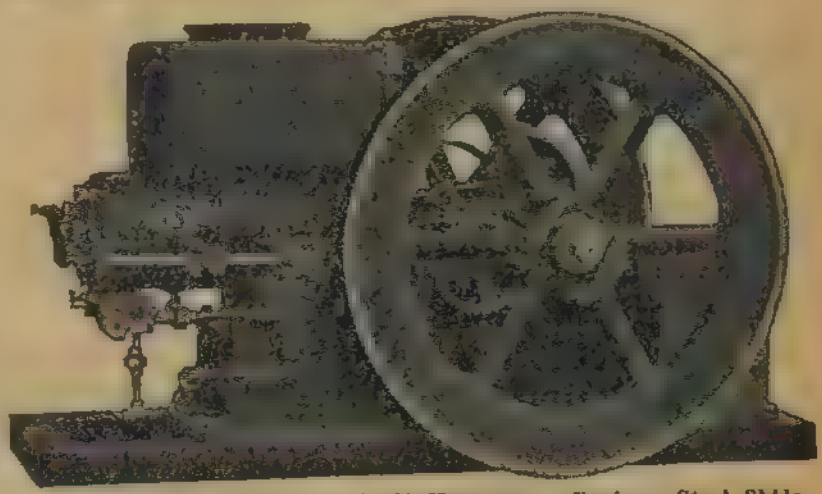
The piston wrist pin is of a large size, case hardened, ground and polished, and securely fastened in a manner which makes it quite impossible for it to become loose.

Alamo Type M Engines have long been notable for perfect fitting pistons and resultant excellent compression.

Crank Shafts—The crank shafts are forged from solid billets of open hearth crank shaft steel. They are carefully machined and ground accurately to size. The small size crank shafts are drop forged and the larger size hammer forged, and all are made from the same high grade quality of steel.

Connecting Rod—The connecting rod is of the I beam construction, carefully designed of ample length and strength and of steel especially fitted for this service. The piston end is fitted with bronze bushings and the crank end of genuine babbitt metal.

Carburetor—The Alamo carburetors are marvels of simplicity and efficiency. Each carburetor is carefully proportioned for the size of the engine to which it is fitted, and will perefctly control the mixture of gasoline and air under all conditions of service and climate. The size of the opening of the fuel nozzle inside is controlled by a needle valve which, when once set, seldom requires any changing, regardless of the changes of load or the conditions of the atmosphere. A perfectly working carburetor is of the greatest importance for satisfactory operation of the engine.



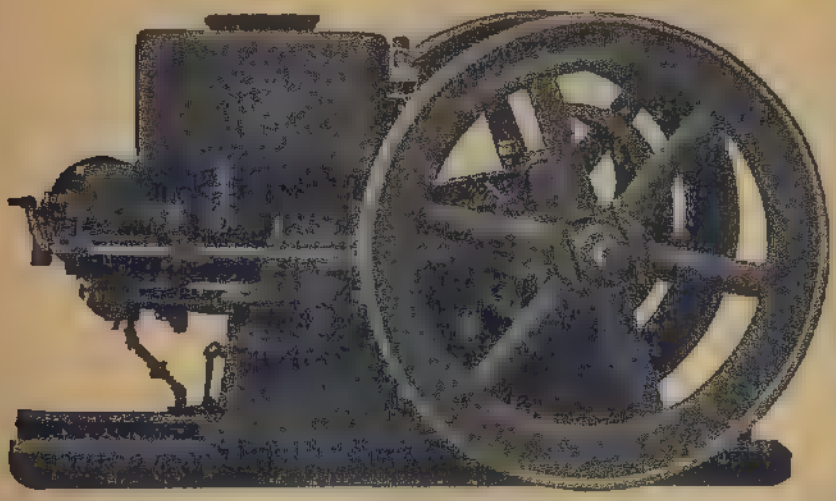
Illustrating the 3½ and 4½ Horsepower Engine. Steel Skids Extra

Magneto—Webster Oscillating furnished with all Alamo Type M Engines. This magneto does away with the use of batteries and furnishes a good spark for starting, as well as when running. It is fastened direct to the igniter, so that there is very little chance of failure by broken connections. A small attachment is provided for tripping the magneto by hand, so that the engine can be readily started by backing it against the compression.

Igniter—The construction of this is most important, as a good sparker is absolutely essential. The Alamo Type M Igniter is simple and rugged in construction. It is fitted to the side of the cylinder, and is held in place by two studs. It may be removed or replaced by only loosening or tightening two nuts. Pure mica is used for the insulation. An outboard bearing is provided for the rotating electrode which holds it in perfect alignment and insures its always working properly. The igniter points are made of a non-corrosive alloy, the best obtainable for the purpose, and can readily be replaced by any one, without the use of special tools.

Pulleys—Stationary engines of all sizes and hand portable engines are furnished with solid iron pulleys as part of their regular equipment. Portable engines mounted on team trucks are regularly furnished with friction clutch pulleys. The pulleys are keyed and set screwed to the engine shaft and set up close to the hub of the fly wheel. The size of the pulley to be used should always be carefully calculated, as it is of the greatest importance that machinery be run at the proper speed.

THE ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES



MAROON LINE

Illustrating the 6½ Horsepower Engine

Wood Skids Extra

ENGINES, SPECIFICATIONS AND EQUIPMENT

Nos.	2100	2000	2010	2020	2030	†2040	†2050	†2060
Horsepower	1½	2½	3½	4½	6½	9	12	15
Domestic approximate shipping weight, crated, lbs.	265	375	550	900	1400	2200	3000	3400
Export approximate shipping weight, boxed, lbs.	325	450	700	1100	1650	2550	3400	3800
Export boxed, cubic feet	20	22	28	35	48	80	110	120
Speed R. P. M.	600	500	400	385	360	300	280	280
Floor space, inch	21x42	25x37	28x40	34x48	35x57	41x68	48x75	48x75
Size of pulley, diameter, inch	4	5	8	10	12	18	20	22
Size of pulley, face, inch	4	4	4	6	6	8	10	10
Size of crank shaft, inch	1¼	1⅜	1½	1¾	2	2½	3	3
Size of exhaust pipe, inch	1	1¼	1½	2	2½	2½	2½	3

Alamo Type M engines are regularly equipped without extra charge with muffler attached, magneto, wrenches, oilers, oil can and can of gas engine oil. Small sizes have fuel tank in the base of the engine of sufficient capacity for one day's run. 12 horsepower and 15 horsepower engines are supplied with 60 gallon outside fuel tank. **Small sizes furnished with solid iron pulley.**

†9, 12 and 15 horsepower furnished without pulley. Plain or clutch pulley for these sizes furnished as an extra.

ALAMO DIRECT CONNECTED PUMPING OUTFIT

1½ AND 2½ HORSE POWER SIZE

These combination outfits are compact and especially suitable for pumping purposes. The engine used is our standard 1½ and 2½-horsepower Alamo gasoline or distillate engine, complete with all catalog fittings and fixtures, including the Webster oscillating type of magneto; engine fitted with our standard make and break ignition. Engine and pump standard fitted to a cast iron sub-base, as per illustration; engine being geared direct to a No. 366 Myers pump jack. This jack is of the standard Myers manufacture with machine cut gears, and is back geared 6 to 1, and has a stroke of 6 and 9 inches, eliminating the use of belt entirely. By removing four bolts from the engine base into the substantial cast iron sub-base, the engine can be removed and is then ready to be used for any other job for which it might be required.

All parts going into the construction of these outfits are uniform and interchangeable, which is a great convenience in ordering such repairs, and in view of the fact that the engine is our regular stock of the Alamo type of engine, and our jack our regular stock of cut gear jacks, this puts us in a position to at all times take care of requests for duplicate parts out of our stock, preventing delay in ordering such parts for combinations offered that are not our regular stock.

PUMP JACK, CAST IRON SUB-BASE AND PINION

FOR 1½ HORSE POWER ALAMO

Weight, lbs .....
Each .....

FOR 2½ HORSE POWER ALAMO

Weight, lbs .....
Each .....

Outfits 2160-366 and 2000-366 same as 2160 and 2000, but with direct connected No. 366 pump jack and cast sub-base.

Weight, lbs .....
Each .....

TYPE M ALAMO KEROSENE ENGINES
MAROON LINE

3½ H. P. Kerosene Engine.

The increased cost of gasoline and the non-production of distillate has created a demand for an engine which will successfully operate on cheaper fuel, such as kerosene. This demand has led us to develop a kerosene engine which has spoken for itself like all other established products of this company, namely, by seventeen years of engine experience.

The kerosene engine we here offer must not be confused or compared with the ordinary kerosene engine that is found on the market, as we have spent large sums for research and experimental work, therefore a product of scientific and basic principles only is represented. We offer you an engine that has perfect combustion, therefore almost entirely eliminating the smoke and obnoxious gas resulting from improperly designed and constructed kerosene engines.

Simplicity is the next important item for thorough consideration, which is best illustrated by stating that our kerosene engine after put in operation is entirely automatic, or self-regulating. Fuel and air are drawn into the engine at proper proportion, varying, of course, to a weak or rich mixture as required by load conditions. The water spray necessary for the successful operation of any kerosene engine is also in this case automatically controlled, and is supplied only at times when needed for heavy engine loads.

Designed to burn kerosene as successfully as it does gasoline and distillate.

3½ H. P. Kerosene Engine—Specifications and Equipment

Approximate shipping weight crated, domestic lbs.	550
Approximate shipping weight boxed, export, lbs.	700
Cubic feet boxed, export	28
Speed, R. P. M.	410
Floor space, inch	28x40
Diameter of pulley, inch	8
Face of pulley, inch	4
Size of crank shaft, inch	1½
Size of exhaust pipe, inch	1½

3½ H. P. kerosene engines are regularly equipped without extra charge, with oscillating magneto, muffler, solid iron pulley, wrenches, oilers, oil can and sample can of gas engine oil.

FRICTION CLUTCHES WITH PULLEYS FOR ALAMO GASOLINE AND KEROSENE ENGINES

To engage shaft of engine only.

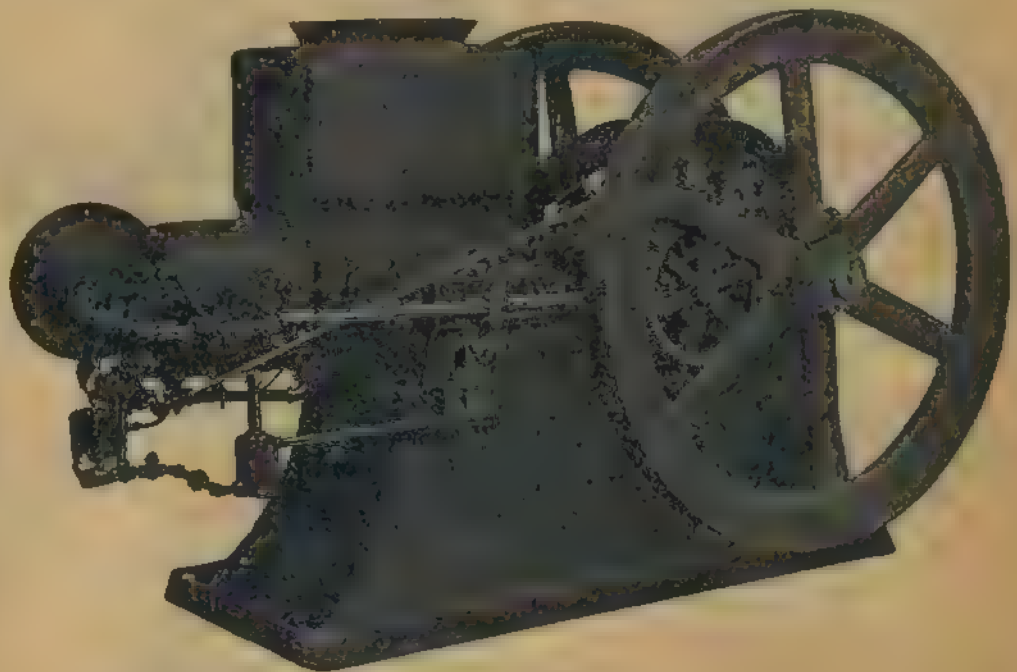
For 3½ Horsepower Engines				
Size of pulley, inch	8x4	10x4	12x4	14x4
Size of shaft, inch	1½	1⅝	1½	1⅝
Shipping weight each, lbs.	50	60	65	70
Each				
For 4½ Horsepower Engines				
Size of pulley, inch	10x6	12x6	14x6	16x6
Size of shaft, inch	1¾	1⅞	1¾	1¾
Shipping weight each, lbs.	60	65	70	75
Each				
For 6½ Horsepower Engines				
Size of pulley, inch	12x6	14x6	16x6	18x6
Size of shaft, inch	2	2	2	2
Shipping weight each, lbs.	70	70	80	90
Each				
For 9 Horsepower Engines				
Size of pulley, inch	18x8	20x8	22x8	24x8
Size of shaft, inch	2½	2⅝	2½	2⅝
Shipping weight each, lbs.	130	135	140	150
Each				
For 12 and 15 Horsepower Engines				
Size of pulley, inch	20x10	22x10	24x10	26x10
Size of shaft, inch	3	3	3	3
Shipping weight each, lbs.	155	165	170	180
Each				

TYPE M ALAMO KEROSENE ENGINES
MAROON LINE

4½ and 6½ H. P. Kerosene Engine

4½ H. P. stationary and portable engines are regularly equipped without extra charge, with oscillating magneto, solid iron pulley, muffler, wrenches, oilers, oil can and sample can of gas engine oil. 6½ H. P. stationary engines are regularly equipped, without extra charge, with oscillating magnetos, muffler, wrenches, oilers, oil can and sample can of gas engine oil. Clutch pulley furnished at an extra cost.

Style of engine	Shipping Weight in pounds crated domestic	Shipping Weight in pounds boxed export	Cubic feet boxed export	Speed R P M.	Floor space in inches	Size of pulley—diam	Size of pulley—face	Size of crank shaft	Size of exhaust pipe
4½ H. P. stationary	900	1100	35	395	34x48	10	6	1¼	2
6½ H. P. stationary	1400	1650	[illegible]	370	35x57	12	6	2	2½



9, 12, 15 H. P. Kerosene Engine

9, 12 and 15 H. P. stationary engines are regularly equipped, without extra charge, with oscillating magneto, muffler, wrenches, oilers, oil can and sample can of gas engine oil. The 9 H. P. stationary has fuel tank in base of engine; the 12 and 15 H. P. stationary are supplied with 60-gallon outside fuel tank.

Style of engine	Shipping Weight in pounds crated domestic	Shipping Weight in pounds boxed export	Cubic feet boxed export	Speed R P M.	Floor space in inches	Size of pulley—diam	Size of pulley—face	Size of crank shaft	Size of exhaust pipe
9 H. P. stationary	2200	2500	[illegible]	310	41x68	18	8	2½	2½
12 H. P. stationary	3000	3400	110	290	48x75	20	10	3	2½
15 H. P. stationary	3400	3800	120	290	48x75	22	10	3	3½

ALAMO TYPE M GASOLINE AND DISTILLATE PORTABLE ENGINE OUTFITS

4½, 6½, 9, 12 AND 15 H. P.

The above illustration is of the 4½, 6½, 9, 12 and 15 horsepower Alamo gasoline and distillate engines, which are the favorite sizes for use in ordinary farm work. All kinds of work can be done, from the running of a pumping plant to the operating of a wood saw or ensilage or feed cutter. These engines may be run on a minimum amount of fuel and yet have power enough for all but the heaviest class of farm machinery. For an all-round purpose engine there is nothing better made than the Alamo Type M distillate or gasoline engine.

The above engines have been pronounced by the best critics as being the most perfect engine yet produced for general utility purposes. Its perfect balance, ease of starting in all kinds of weather, and its simplicity and substantial construction is best appreciated by those who have used these engines under the most severe conditions.

Trucks—Made completely of steel and fully guaranteed; channel beams carrying engines very stiff and rigid; axles made of one piece of solid steel.

All mounted outfits are shipped with pole, but singletrees and doubletrees are not included

Pulleys—Regular equipment includes plain, solid pulleys. Friction clutches are extra if desired. See page 5565.

4½, 6½, 9, 12 and 15 H. P. Portable Outfits, Specifications and Equipment.

Horsepower	4½	6½	9	12	15
Diameter crankshaft, inch	1¾	2	2½	3	3
Speed	385	360	300	280	280
Pulley, diameter, inch	10	12	18	20	22
Pulley, face, inch	6	6	8	10	10
Size exhaust pipe, inch	2	2½	2½	2½	3
Shipping weight, lbs	1600	1800	2400	3200	3900

Alamo Type M portable engines are regularly equipped without extra charge with muffler attached, Webster oscillating magneto, wrenches, oilers, oil can and can of gas engine oil. Small sizes have fuel tank in the base of the engine of sufficient capacity for one day's run. 12 horsepower and 15 horsepower engines are supplied with 60 gallon outside fuel tank. All sizes furnished with iron pulley.

ALAMO TYPE M PORTABLE GASOLINE AND DISTILLATE ENGINE SPRAY OUTFIT

For specifications see page 5545.

For portable outfits equipped with kerosene engines add difference in price of engine.

ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES WITH PORTABLE SAWING RIGS

MOUNTED ON STEEL TRUCKS

4½, 6½, 9 H. P.

Back View

Front View

Equipped with No. 41 all steel sliding table, unless ordered with swing table.

The engines used on these sawing outfits are the regular Alamo Type M.

Truck—The same specifications apply to the truck as with the mounted engine, only the channel beams are made longer to receive the saw frame. These channel beams are 10 feet long, thus enabling the use of a belt of sufficient length. Wheel base, 7 feet, 10 inches.

Saw Frame—Steel sliding table styles firmly bolted to the channel beams. It will take a saw blade up to 30 inches in diameter. The saw arbor is 1½ inches in diameter. The pulley on the same is 6x6 inches. Saw blades furnished with each outfit, belting is included. If required, the saw frame can easily be removed from the channel beam, so that the engine can be used for other work. Equipped regularly with 26-inch saw.

Equipment—The engine is furnished with the same equipment as with the Alamo Type M mounted engines.

Pulleys—Engines are supplied with friction clutch pulley of suitable diameter, which gives the saw the proper speed.

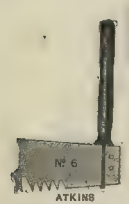
Specifications and Equipment

For portable outfits equipped with kerosene engines add difference in price of engine.

Outfit No.	W	Y	C
Horsepower	4½	6½	9
Crankshaft, inch	1¾	2	2½
Speed	385	360	300
Shipping weight, lbs.	2000	2500	3300
With Webster Magnetos			

CROSS CUT SAW HANDLES

LOOP HANDLES



ATKINS

Patent Swivel; Malleable Loop

Varnished Beech Handle; Malleable Iron Ferrule and Swivel; Combination Iron Plug and Nut.

Per Pair

No. 6—9 in. Handle; 4 in Loop; 1½ in Ferrule..$0.16

Weight, per Pair, 1¼ Lbs.

ATKINS

Malleable Iron Loop

Varnished Beech Handle; Malleable Iron Bell Ferrule and Cap; Solid Iron Combination Plug and Nut.

Per Pair

No. 8—10 in. Handle; 4½ in. Loop; 2 in Ferrule..$0.20

Weight, per Pair, 2 Lbs.

ATKINS

Malleable Iron Loop

Selected Hardwood Grip; Malleable Iron Ferrule and Revolving Washer; Loop Fastened to Handle by use of Heavy Bolt.

Per Pair

No. 26—10 in. Handle; 4 in Loop; 1½ in. Ferrule..$0.24

Weight, per Pair, 2 Lbs.

ATKINS

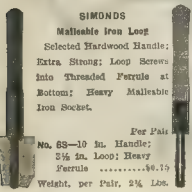
Wrough Loop

Varnished Hardwood Handle; Malleable Iron Bell Ferrule and Cap; Solid Iron Combination Plug and Nut.

For Pair

No. 12—9½ in. Handle; 4 in Loop; 2 in. Ferrule..$0.40

Weight, per Pair, 3 Lbs.



SIMONDS

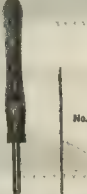
Malleable Iron Loop

Selected Hardwood Handle; Extra Strong; Loop Screws into Threaded Ferrule at Bottom; Heavy Malleable Iron Socket.

Per Pair

No. 8S—10 in. Handle; 3½ in. Loop; Heavy Ferrule..$0.15

Weight, per Pair, 2¼ Lbs.

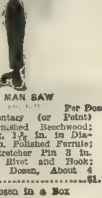


DISSTON

Per Pair

No. 122—Heavy Malleable Iron Cap with long Neck tapped to fit threaded end of Loop Rod; This Rod Extends through the Handle, making the connection and line of pressure, when on Saw, from top of Handle to bottom edge of Blade, giving a firm grip without wobbling; Hardwood Handle, 8 in. Long..$0.80

Weight, per Pair, 2 Lbs.



ONE MAN SAW

Per Dozen

No. 66—Supplementary (or Point) Handle; Varnished Beechwood; 5¾ in. Long; 1¾ in. in Diameter; 1⅝ in. Polished Ferrule; Malleable Stretcher Pin 3 in. Long, with Rivet and Hook; Weight, per Dozen, About 4 Lbs. ..$1.75

Half Dozen in a Box

ONE MAN SAW HANDLES

ATKINS

Per Dozen

No. 2—Regular (or Butt) Handle; Selected Beechwood, Plain Sides, Varnished Edges, not Bored and without Screws; 5½ in. Long, 5⅝ in. Wide; Weight, per Dozen, About 7 Lbs. ..$3.00

Half Dozen in a Box

SIMONDS

Per Dozen

No. 2223—Extra Large, Mitt Handle; Selected Beechwood Plain Sides, Stained and Varnished Edges; 9 in. Long; 6¾ in. Wide; 4¹³⁄₁₆ in. Opening ..$12.60

Weight, per Dozen, About 9 Lbs.

BOX HANDLES

Each

For Pit Saws; Used on Pit End and Fastened to Saw with Wedge. Hickory Handle, 18 in. Long; Weight, Each, About 1¾ Lbs. ..$1.00

Open Stock

TILLER HANDLES

Each

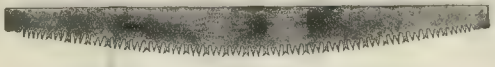
For Pit, Whip or Ice Saws; Beech Handle, 19 in. Long; Weight, Each, About 3¼ Lbs. ..$1.25

Open Stock

CROSS CUT SAWS

HENRY DISSTON & SONS

Made of the Best Grade Crucible Spring Steel, Perfectly Tempered in Oil, Carefully Sharpened and Set; Polished and Etched; Ground to an Even Gauge Throughout the Tooth Edge, with a Relative and Uniform Thickness Throughout the Body to a Thin or Extra Thin Edge at Back Edge, Giving the Saw a Maximum Amount of Clearance Without Sacrificing Its Elasticity and Stiffness.



VIRGINIAN

14 Gauge at Cutting Edge, 20 Gauge at Back of Saw; Two Cutting Teeth to Each Raker

Length, Feet	5	5½	6	6½
Width at Center, In.	6½	7	7¾	7½
Weight Each, Lbs.	5	5½	7	8
Each, Without Handles	$4.55	5.20	6.20	7.10

NEW ZIP

14 Gauge at Cutting Edge, 19 Gauge at Back of Saw; Two Cutting Teeth to Each Raker

Length, Feet	5	5½
Width at Center, In.	6	5½
Weight Each, Lbs.	4½	5¾
Each, Without Handles	$4.55	5.30

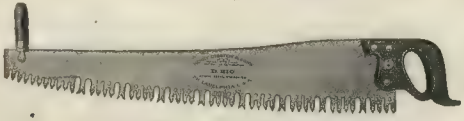
ONE-MAN SAWS

Made of High Quality Crucible Steel; The Hardening, Tempering, Hammering, Grinding, Tensioning, Blocking, Setting and Sharpening are all done on Scientific Principles that make the Saws Capable of Standing all Necessary "Thrust" Pressure Without Buckling, and at the same time, Easy, Rapid Cutters. Selected, Thoroughly Seasoned Hardwood Handles, with Extra Large Grip, Four Brass Screws.

No. D10—TWO CUTTER

Disston's Skewlock Saws are Ground Thin Towards the Back, Narrower in Width than Regular One-Man Saws; Teeth Long and Slim, Extra Wide Gullets, Bakers Special Shaped with "Undercut" for Clearance; Four Inch Blank Butt

Length, Feet	3½	4	4½
Weight Each, Lbs.	4	5	6
Each	$3.15	3.60	4.05



No. D210—ESPECIALLY ADAPTED FOR CUTTING CEDAR

Skewback Blade, Ground Thin Towards the Back, Narrower in Width than Regular Saws; Teeth are Long and Slim, with Extra Wide Gullets; The Rakers are of Special Shape, with "Undercut" which will clear to much better advantage them ordinary rakers in this class of work.

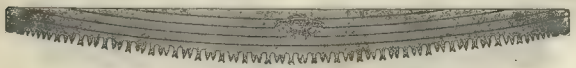
Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	3½	4	5	6	7
Each	$2.70	3.15	3.60	4.05	4.50

CROSS CUT SAWS

SIMONDS MFG. CO.

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched

The Improvement in the Simonds Crescent Ground Saw Consists in Grinding the Saw in Crescent Lines, Parallel to the Cutting Edge in which case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while the Ends are Increased Two Gauges in Thickness. In Consequence the Saw can be Ground Thinner on the Back, and it Does not Bind in the Kerf. It Requires Less Set, for Each Tooth Does an Equal Amount of Work, and has Equal Thickness or Strength to Hold the Set Required for Clearance. Being Two Gauges Heavier and Connected by Stiffer at the Ends, the Operator can Push as well as Pull without Causing it to "Buckle," and for Pulling Trees it has been Demonstrated that it has no Superior.



No. 13—CHAMPION TOOTH

14 Gauge at Center of Cutting Edge 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge

Length, Feet	4½	5	5½	6	6½
Weight, Each, Lbs.	4¼	5	6	7¼	8½
Each, Without Handles	$3 60	4 30	5.10	5.90	6.80

No. 22—PERFORATED LANCE TOOTH

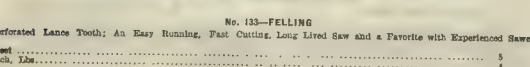
14 Gauge at Center of Cutting Edge 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge

Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs.	4½	4¾	5½	7¼	8½
Each, Without Handles	$3 60	4 30	5 10	5.90	6.80

No. 113—FELLING

Two Cutting Teeth to One Raker Tooth

Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs	3¾	4	4¾	5¼	6¾
Width at Center, In.	5½	5⅝	5¾	5⅞	6⅛
Each, Without Handles	$3 60	4 30	5 10	5.90	6.80



No. 133—FELLING

Perforated Lance Tooth; An Easy Running, Fast Cutting, Long Lived Saw and a Favorite with Experienced Sawers

Length, Feet	5	5½
Weight Each, Lbs	4	4¾
Each	$4.30	5.10

SAWS

E. C. ATKINS & CO.

PIT SAWS

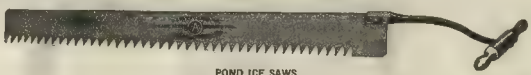
For Ripping Purposes Only; To be Used by Two Men where One Man has to Work Down in a Pit
Highest Grade Silver Steel, Polished and Etched. 14x16 Gauge.

Length, Feet	5½	6	6½
Width at Point, In.	4	4	4
Width at Butt In.	10½	11	11½
Weight Each, Lbs.,	7½	8¾	10
Each, Without Handles	$5.50	6.00	6.50

WHIP SAWS

Generally Used About Shipyards for Sawing out Knees
Highest Quality Silver Steel, Polished and Etched

Length, Feet	5½	6	6½
Width at Point, In.	3¼	3¼	3¼
Width at Butt, In.	7	7⅜	8
Weight Each, Lbs.	7½	8	8¾
Each, Without Handles	$3.30	3.60	3.90



POND ICE SAWS

11 Gauge; Tapers from 7 in. at Butt to 5 in. at Point
Atkins Special Steel, Extremely Hard, Tough Tempered; Sharpened, Set and Ready for Use

Length, Feet	5	5½
Weight Each, Lbs.	11¼	12½
Each, Without Handles	$4.25	4 70

HAND ICE SAWS

High Grade Special Steel, Teeth Sharpened and Set Ready for Use; Easy Grip, Malleable Iron Handle, Aluminum Bronze Finish.
Fastened to Blade by Two Screws

	Per Dozen
No. 28—Length 28 in., Weight per Dozen 37 Lbs.	$22 00

BUTTING OR DRAG SAWS

Atkins Silver-Steel Drag Saws are made in all styles and shapes of teeth to meet every requirement. They guarantee an absolutely uniform temper of the proper degree of hardness, insuring saws which will stand up to their work with the least cost for refitting. Unusual attention is given to grinding and stoning, thereby securing an even thickness on the cutting edge, combined with proper tension to obtain the best results in operation.

Width, Inches	Price, Per Foot			
	10 Gauge	11 Gauge	12 Gauge	13 Gauge
Tapered 8 inch Butt, 6 inch Point.....Per Point	$1.25	$1.20	$1.20	$1.20
Tapered 7 inch Butt, 5 inch Point.....Per Point	1.15	1 10	1.05	1.05
Tapered 6 inch Butt, 4 inch Point.....Per Point	1.05	1.00	.95	.95

Tapered drag saws wider or thicker than the above will be figured by the Mill, Mulay and Drag Saw list using the average width as the basis. If **Filed and Fitted**, add to the list for 10 gauge and heavier, 30 cents per foot; 11 gauge and thinner, 15 cents per foot. Drag Saws filed and set unless otherwise specified.

Note: 10 Gauge, 8 in. Butt, 5, 5½, 6 and 6½ in. Lengths carried in Minneapolis stock; Balance F. O. B. Indianapolis, Ind.

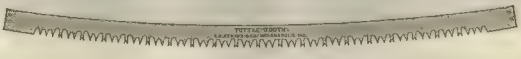
CROSS CUT SAWS

E. C. ATKINS & CO.

No. 336—FEATHER EDGE, THIN-BACK

Atkins Special Steel, 14 Gauge on Tooth Edge, 18 Gauge on Back Edge

Length, Feet	4	4½	5	5½
Weight Each, Lbs.	3.56	4 30	4 98	5 97
Each, Without Handles	$2.08	2 34	2.60	2.86



No. 379—HOLLOW BACK, TUTTLE TOOTH

Atkins Special Steel, Carefully Tempered. 3¼ inches Wide at Ends and Center in All Lengths

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	3 04	3.4	3.74	4.
Each, Without Handles	$1.17	1.30	1.43	1.56

ONE MAN SAWS

E. C. Atkins & Co.

No. 389—CEDAR KING

Atkins High Grade Special Steel; Skew Back; The Toothed Edge is of Even Thickness, but the Blade Gradually Tapers Towards the Point on the Back. Easy Grip Handle.

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	1 99	2 53	3.95	4.55	5.25
Each	$2 10	2.45	2.80	3.15	3.50

No. 392—VICTOR

Straight Back

Special Crucible Steel; Exceedingly Hard Tough Temper; Carefully Ground to Uniform Thickness, Selected Air-Dried Beech Handles

Length, Feet	3½	4	4½	5
Weight Each, Lbs.	2 57	3.51	4.33	5.13
Each	$2.24	2.56	2.88	3.20

No. 490—SHEFFIELD TUTTLE TOOTH

Special Steel, Straight Back; Selected Beech Handles

Length, Feet	2½	3	3½	4
Weight Each, Lbs.	1 64	2 42	2 87	3.51
Each	$1.25	1 63	1 89	2 16

No. 396—TUTTLE TOOTH

Straight Back

Special Crucible Steel, Exceedingly Hard Tough Temper; Carefully Ground to Uniform Thickness; Selected Air-Dried Beech Handles.

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	2 42	2 87	3.51	4.33	5.13
Each	$1 68	1 96	2 24	2.52	2.80

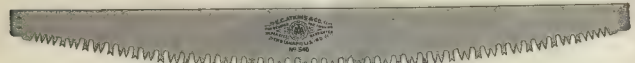
No. 654—LANCE TOOTH, Perforated

Atkins High Grade Special Steel, Ground 17 Gauge on Toothed Edge, 19 Gauge on Back at the Point. The Center is 20 Gauge and at the butt near handle 19 Gauge. Large Easy Grip Handle.

Length, Feet	3	3½	4	4½
Weight Each, Lbs.	4	4½	5½	6½
Each	$3 00	3 50	4 00	4 50

CROSS CUT SAWS

E. C. ATKINS & CO.



No. 540 REX

Silver Steel, Segment Ground; 14 Gauge on Toothed Edge, 17 Gauge at end and 20 Gauge on Center of Back

Length, Feet	5	5½	6
Weight Each, Lbs.	4 60	5 80	6 8
Each, without Handles	$4 10	4.80	5.60

No. 4—PERFECTION

Silver Steel, Segment Ground; 14 Gauge on Toothed Edge, 17 Gauge on Back at Ends, and 20 Gauge on the Center of the Back. Blades are 3 in. at Ends, and 6 in. Wide at Center

Length, Feet	5	5½	6
Weight Each, Lbs.	4 6	5 80	6 8
Each, without Handles	$4 10	4.80	5 60

No. 6 HEMLOCK KING

Silver Steel, Segment Ground: 14 Gauge on Toothed Edge, 17 Gauge on the Back at Ends; and 20 Gauge at Center of Back

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	4 2	4 46	5	5 6
Each, Without Handles	$3 60	4 10	4 80	5 60

No. 225—"VICTOR" CANADA'S FAVORITE

Special Steel; Perforated Tooth; 14 Gauge on Toothed Edge; 18 Gauge on Back Edge

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	3.91	4.55	5 38	6 64
Each, Without Handles	$2 98	3.20	3.52	3.84

DIAMOND POINT

Special Steel, Thin Back Tuttle Tooth

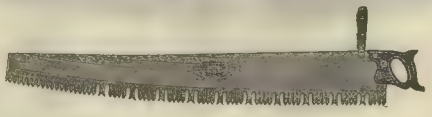
Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs.	3 3	4 98	5 67	6 34	7 65
No. 330—14x16 Gauge. Each, Without Handle	$2 16	2 40	2 64	2 88	-
No. 331—14x18 Gauge. Each, Without Handle	2.34	2 60	2 86	3 12	-
No. 332—14x19 Gauge. Each, Without Handle	2.84	3 10	3 36	3 62	3 88

ONE MAN CROSS CUT SAWS

SIMONDS MFG. CO.

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched

The Improvement in the Simonds Crescent Ground Saw Consists in Grinding the Saw in Crescent Lines, Parallel to the Cutting Edge in which case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while the Ends are Increased Two Gauges in Thickness. In Consequence the Saw can be Ground Thinner on the Back, and it does not Bind in the Kerf. It Requires Less Set, for Each Tooth Does an Equal Amount of Work, and has Equal Thickness or Strength to Hold the Set Required for Clearance, Being Two Gauges Heavier and Consequently Suffer at the Ends the Operators can Push as well as Pull without Causing it to "Buckle," and for Felling Trees it has been Demonstrated that it has no Superior.



No. 223—MONARCH, PERFORATED LANCE TOOTH

Crescent Ground, 14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 17 Gauge at Center of Back Edge

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	3¾	4½	5	5½	7½	8
Each	$3.00	3.30	4.00	4.50	5.00	5.50

No. 112—CHAMPION TOOTH

Straight Ground; Sway Back; 16 Gauge at Cutting Edge; 18 Gauge at Back Edge; Two Cutting Teeth to Each Raker

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	4	4½	5	6	7	8½
Each	$2.25	2.65	3.00	3.40	3.75	4.15

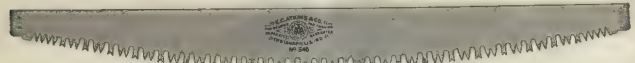
No. 224—PERFORATED LANCE TOOTH

Straight Ground; Sway Back; 15 Gauge at Cutting Edge; 17 Gauge at Back Edge; Two Cutting Teeth to Each Raker

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	4	4½	5	6	7	8½
Each	$2.40	2.80	3.20	3.60	4.00	4.40

CROSS CUT SAWS

E. C. ATKINS & CO.



No. 540 REX

Silver Steel, Segment Ground; 14 Gauge on Toothed Edge, 17 Gauge at end and 20 Gauge on Center of Back

Length, Feet	5	5½	6
Weight Each, Lbs.	4 60	5 80	6 8
Each, without Handles	$4 10	4.80	5.60

No. 4—PERFECTION

Silver Steel, Segment Ground; 14 Gauge on Toothed Edge, 17 Gauge on Back at Ends, and 20 Gauge on the Center of the Back. Blades are 3 in. at Ends, and 6 in. Wide at Center

Length, Feet	5	5½	6
Weight Each, Lbs.	4 6	5 80	6 8
Each, without Handles	$4 10	4.80	5 60

No. 6 HEMLOCK KING

Silver Steel, Segment Ground: 14 Gauge on Toothed Edge, 17 Gauge on the Back at Ends; and 20 Gauge at Center of Back

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	4 2	4 46	5	5 6
Each, Without Handles	$3 60	4 10	4 80	5 60

No. 225—"VICTOR" CANADA'S FAVORITE

Special Steel; Perforated Tooth; 14 Gauge on Toothed Edge; 18 Gauge on Back Edge

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	3.91	4.55	5 38	6 64
Each, Without Handles	$2 98	3.20	3.52	3.84

DIAMOND POINT

Special Steel, Thin Back Tuttle Tooth

Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs.	3 3	4 98	5 67	6 34	7 65
No. 330—14x16 Gauge. Each, Without Handle	$2 16	2 40	2 64	2 88	-
No. 331—14x18 Gauge. Each, Without Handle	2.34	2 60	2 86	3 12	-
No. 332—14x19 Gauge. Each, Without Handle	2.84	3 10	3 36	3 62	3 88

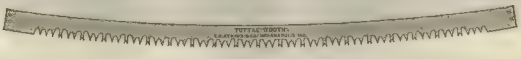
CROSS CUT SAWS

E. C. ATKINS & CO.

No. 336—FEATHER EDGE, THIN-BACK

Atkins Special Steel, 14 Gauge on Tooth Edge, 18 Gauge on Back Edge

Length, Feet	4	4½	5	5½
Weight Each, Lbs.	3.56	4 30	4 98	5 97
Each, Without Handles	$2.08	2 34	2.60	2.86



No. 379—HOLLOW BACK, TUTTLE TOOTH

Atkins Special Steel, Carefully Tempered. 3¼ inches Wide at Ends and Center in All Lengths

Length, Feet	4½	5	5½	6
Weight Each, Lbs.	3 04	3.4	3.74	4.
Each, Without Handles	$1.17	1.30	1.43	1.56

ONE MAN SAWS

E. C. Atkins & Co.

No. 389—CEDAR KING

Atkins High Grade Special Steel; Skew Back; The Toothed Edge is of Even Thickness, but the Blade Gradually Tapers Towards the Point on the Back. Easy Grip Handle.

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	1 99	2 53	3.95	4.55	5.25
Each	$2 10	2.45	2.80	3.15	3.50

No. 392—VICTOR

Straight Back

Special Crucible Steel; Exceedingly Hard Tough Temper; Carefully Ground to Uniform Thickness, Selected Air-Dried Beech Handles

Length, Feet	3½	4	4½	5
Weight Each, Lbs.	2 57	3.51	4.33	5.13
Each	$2.24	2.56	2.88	3.20

No. 490—SHEFFIELD TUTTLE TOOTH

Special Steel, Straight Back; Selected Beech Handles

Length, Feet	2½	3	3½	4
Weight Each, Lbs.	1 64	2 42	2 87	3.51
Each	$1.25	1 63	1 89	2 16

No. 396—TUTTLE TOOTH

Straight Back

Special Crucible Steel, Exceedingly Hard Tough Temper; Carefully Ground to Uniform Thickness; Selected Air-Dried Beech Handles.

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	2 42	2 87	3.51	4.33	5.13
Each	$1 68	1 96	2 24	2.52	2.80

No. 654—LANCE TOOTH, Perforated

Atkins High Grade Special Steel, Ground 17 Gauge on Toothed Edge, 19 Gauge on Back at the Point. The Center is 20 Gauge and at the butt near handle 19 Gauge. Large Easy Grip Handle.

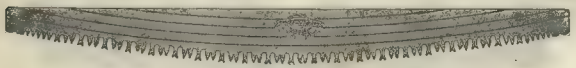
Length, Feet	3	3½	4	4½
Weight Each, Lbs.	4	4½	5½	6½
Each	$3 00	3 50	4 00	4 50

CROSS CUT SAWS

SIMONDS MFG. CO.

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched

The Improvement in the Simonds Crescent Ground Saw Consists in Grinding the Saw in Crescent Lines, Parallel to the Cutting Edge in which case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while the Ends are Increased Two Gauges in Thickness. In Consequence the Saw can be Ground Thinner on the Back, and it Does not Bind in the Kerf. It Requires Less Set, for Each Tooth Does an Equal Amount of Work, and has Equal Thickness or Strength to Hold the Set Required for Clearance. Being Two Gauges Heavier and Connected by Stiffer at the Ends, the Operator can Push as well as Pull without Causing it to "Buckle," and for Pulling Trees it has been Demonstrated that it has no Superior.



No. 13—CHAMPION TOOTH

14 Gauge at Center of Cutting Edge 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge

Length, Feet	4½	5	5½	6	6½
Weight, Each, Lbs.	4¼	5	6	7¼	8½
Each, Without Handles	$3 60	4 30	5.10	5.90	6.80

No. 22—PERFORATED LANCE TOOTH

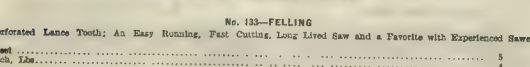
14 Gauge at Center of Cutting Edge 16 Gauge at Back on Ends, 19 Gauge at Center of Back Edge

Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs.	4½	4¾	5½	7¼	8½
Each, Without Handles	$3 60	4 30	5 10	5.90	6.80

No. 113—FELLING

Two Cutting Teeth to One Raker Tooth

Length, Feet	4½	5	5½	6	6½
Weight Each, Lbs	3¾	4	4¾	5¼	6¾
Width at Center, In.	5½	5⅝	5¾	5⅞	6⅛
Each, Without Handles	$3 60	4 30	5 10	5.90	6.80



No. 133—FELLING

Perforated Lance Tooth; An Easy Running, Fast Cutting, Long Lived Saw and a Favorite with Experienced Sawers

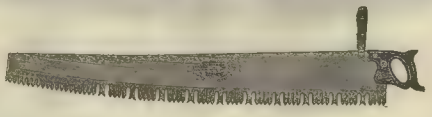
Length, Feet	5	5½
Weight Each, Lbs	4	4¾
Each	$4.30	5.10

ONE MAN CROSS CUT SAWS

SIMONDS MFG. CO.

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched

The Improvement in the Simonds Crescent Ground Saw Consists in Grinding the Saw in Crescent Lines, Parallel to the Cutting Edge in which case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while the Ends are Increased Two Gauges in Thickness. In Consequence the Saw can be Ground Thinner on the Back, and it does not Bind in the Kerf. It Requires Less Set, for Each Tooth Does an Equal Amount of Work, and has Equal Thickness or Strength to Hold the Set Required for Clearance, Being Two Gauges Heavier and Consequently Suffer at the Ends the Operators can Push as well as Pull without Causing it to "Buckle," and for Felling Trees it has been Demonstrated that it has no Superior.



No. 223—MONARCH, PERFORATED LANCE TOOTH

Crescent Ground, 14 Gauge at Center of Cutting Edge, 16 Gauge at Back on Ends, 17 Gauge at Center of Back Edge

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	3¾	4½	5	5½	7½	8
Each	$3.00	3.30	4.00	4.50	5.00	5.50

No. 112—CHAMPION TOOTH

Straight Ground; Sway Back; 16 Gauge at Cutting Edge; 18 Gauge at Back Edge; Two Cutting Teeth to Each Raker

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	4	4½	5	6	7	8½
Each	$2.25	2.65	3.00	3.40	3.75	4.15

No. 224—PERFORATED LANCE TOOTH

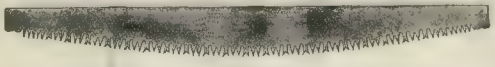
Straight Ground; Sway Back; 15 Gauge at Cutting Edge; 17 Gauge at Back Edge; Two Cutting Teeth to Each Raker

Length, Feet	3	3½	4	4½	5	5½
Weight Each, Lbs.	4	4½	5	6	7	8½
Each	$2.40	2.80	3.20	3.60	4.00	4.40

CROSS CUT SAWS

HENRY DISSTON & SONS

Made of the Best Grade Crucible Spring Steel, Perfectly Tempered in Oil, Carefully Sharpened and Set; Polished and Etched; Ground to an Even Gauge Throughout the Tooth Edge, with a Relative and Uniform Thickness Throughout the Body to a Thin or Extra Thin Edge at Back Edge, Giving the Saw a Maximum Amount of Clearance Without Sacrificing Its Elasticity and Stiffness.



VIRGINIAN

14 Gauge at Cutting Edge, 20 Gauge at Back of Saw; Two Cutting Teeth to Each Raker

Length, Feet	5	5½	6	6½
Width at Center, In.	6½	7	7¾	7½
Weight Each, Lbs.	5	5½	7	8
Each, Without Handles	$4.55	5.20	6.20	7.10

NEW ZIP

14 Gauge at Cutting Edge, 19 Gauge at Back of Saw; Two Cutting Teeth to Each Raker

Length, Feet	5	5½
Width at Center, In.	6	5½
Weight Each, Lbs.	4½	5¾
Each, Without Handles	$4.55	5.30

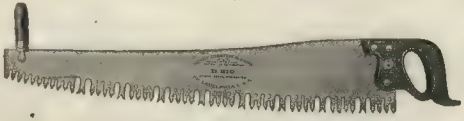
ONE-MAN SAWS

Made of High Quality Crucible Steel; The Hardening, Tempering, Hammering, Grinding, Tensioning, Blocking, Setting and Sharpening are all done on Scientific Principles that make the Saws Capable of Standing all Necessary "Thrust" Pressure Without Buckling, and at the same time, Easy, Rapid Cutters. Selected, Thoroughly Seasoned Hardwood Handles, with Extra Large Grip, Four Brass Screws.

No. D10—TWO CUTTER

Disston's Skewlock Saws are Ground Thin Towards the Back, Narrower in Width than Regular One-Man Saws; Teeth Long and Slim, Extra Wide Gullets, Bakers Special Shaped with "Undercut" for Clearance; Four Inch Blank Butt

Length, Feet	3½	4	4½
Weight Each, Lbs.	4	5	6
Each	$3.15	3.60	4.05



No. D210—ESPECIALLY ADAPTED FOR CUTTING CEDAR

Skewback Blade, Ground Thin Towards the Back, Narrower in Width than Regular Saws; Teeth are Long and Slim, with Extra Wide Gullets; The Rakers are of Special Shape, with "Undercut" which will clear to much better advantage them ordinary rakers in this class of work.

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs.	3½	4	5	6	7
Each	$2.70	3.15	3.60	4.05	4.50

SAWS

E. C. ATKINS & CO.

PIT SAWS

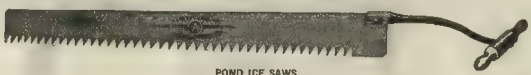
For Ripping Purposes Only; To be Used by Two Men where One Man has to Work Down in a Pit
Highest Grade Silver Steel, Polished and Etched. 14x16 Gauge.

Length, Feet	5½	6	6½
Width at Point, In.	4	4	4
Width at Butt In.	10½	11	11½
Weight Each, Lbs.,	7½	8¾	10
Each, Without Handles	$5.50	6.00	6.50

WHIP SAWS

Generally Used About Shipyards for Sawing out Knees
Highest Quality Silver Steel, Polished and Etched

Length, Feet	5½	6	6½
Width at Point, In.	3¼	3¼	3¼
Width at Butt, In.	7	7⅜	8
Weight Each, Lbs.	7½	8	8¾
Each, Without Handles	$3.30	3.60	3.90



POND ICE SAWS

11 Gauge; Tapers from 7 in. at Butt to 5 in. at Point
Atkins Special Steel, Extremely Hard, Tough Tempered; Sharpened, Set and Ready for Use

Length, Feet	5	5½
Weight Each, Lbs.	11¼	12½
Each, Without Handles	$4.25	4 70

HAND ICE SAWS

High Grade Special Steel, Teeth Sharpened and Set Ready for Use; Easy Grip, Malleable Iron Handle, Aluminum Bronze Finish.
Fastened to Blade by Two Screws

	Per Dozen
No. 28—Length 28 in., Weight per Dozen 37 Lbs.	$22 00

BUTTING OR DRAG SAWS

Atkins Silver-Steel Drag Saws are made in all styles and shapes of teeth to meet every requirement. They guarantee an absolutely uniform temper of the proper degree of hardness, insuring saws which will stand up to their work with the least cost for refitting. Unusual attention is given to grinding and stoning, thereby securing an even thickness on the cutting edge, combined with proper tension to obtain the best results in operation.

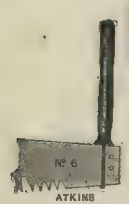
Width, Inches	Price, Per Foot			
	10 Gauge	11 Gauge	12 Gauge	13 Gauge
Tapered 8 inch Butt, 6 inch Point.....Per Point	$1.25	$1.20	$1.20	$1.20
Tapered 7 inch Butt, 5 inch Point.....Per Point	1.15	1 10	1.05	1.05
Tapered 6 inch Butt, 4 inch Point.....Per Point	1.05	1.00	.95	.95

Tapered drag saws wider or thicker than the above will be figured by the Mill, Mulay and Drag Saw list using the average width as the basis. If **Filed and Fitted**, add to the list for 10 gauge and heavier, 30 cents per foot; 11 gauge and thinner, 15 cents per foot. Drag Saws filed and set unless otherwise specified.

Note: 10 Gauge, 8 in. Butt, 5, 5½, 6 and 6½ in. Lengths carried in Minneapolis stock; Balance F. O. B. Indianapolis, Ind.

CROSS CUT SAW HANDLES

LOOP HANDLES



ATKINS

Patent Swivel; Malleable Loop

Varnished Beech Handle; Malleable Iron Ferrule and Swivel; Combination Iron Plug and Nut.

Per Pair

No. 6—9 in. Handle; 4 in Loop; 1½ in Ferrule..$0.16

Weight, per Pair, 1¼ Lbs.

ATKINS

Malleable Iron Loop

Varnished Beech Handle; Malleable Iron Bell Ferrule and Cap; Solid Iron Combination Plug and Nut.

Per Pair

No. 8—10 in. Handle; 4½ in. Loop; 2 in Ferrule..$0.20

Weight, per Pair, 2 Lbs.

ATKINS

Malleable Iron Loop

Selected Hardwood Grip; Malleable Iron Ferrule and Revolving Washer; Loop Fastened to Handle by use of Heavy Bolt.

Per Pair

No. 26—10 in. Handle; 4 in Loop; 1½ in. Ferrule..$0.24

Weight, per Pair, 2 Lbs.

ATKINS

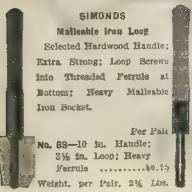
Wrough Loop

Varnished Hardwood Handle; Malleable Iron Bell Ferrule and Cap; Solid Iron Combination Plug and Nut.

For Pair

No. 12—9½ in. Handle; 4 in Loop; 2 in. Ferrule..$0.40

Weight, per Pair, 3 Lbs.



SIMONDS

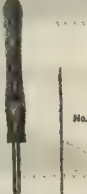
Malleable Iron Loop

Selected Hardwood Handle; Extra Strong; Loop Screws into Threaded Ferrule at Bottom; Heavy Malleable Iron Socket.

Per Pair

No. 8S—10 in. Handle; 3½ in. Loop; Heavy Ferrule..$0.15

Weight, per Pair, 2¼ Lbs.

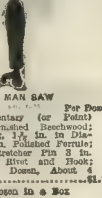


DISSTON

Per Pair

No. 122—Heavy Malleable Iron Cap with long Neck tapped to fit threaded end of Loop Rod; This Rod Extends through the Handle, making the connection and line of pressure, when on Saw, from top of Handle to bottom edge of Blade, giving a firm grip without wobbling; Hardwood Handle, 8 in. Long..$0.80

Weight, per Pair, 2 Lbs.



ONE MAN SAW

Per Dozen

No. 66—Supplementary (or Point) Handle; Varnished Beechwood; 5¾ in. Long; 1¾ in. in Diameter; 1⅝ in. Polished Ferrule; Malleable Stretcher Pin 3 in. Long, with Rivet and Hook; Weight, per Dozen, About 4 Lbs. ..$1.75

Half Dozen in a Box

ONE MAN SAW HANDLES

ATKINS

Per Dozen

No. 2—Regular (or Butt) Handle; Selected Beechwood, Plain Sides, Varnished Edges, not Bored and without Screws; 5½ in. Long, 5⅝ in. Wide; Weight, per Dozen, About 7 Lbs. ..$3.00

Half Dozen in a Box

SIMONDS

Per Dozen

No. 2223—Extra Large, Mitt Handle; Selected Beechwood Plain Sides, Stained and Varnished Edges; 9 in. Long; 6¾ in. Wide; 4¹³⁄₁₆ in. Opening ..$12.60

Weight, per Dozen, About 9 Lbs.

BOX HANDLES

Each

For Pit Saws; Used on Pit End and Fastened to Saw with Wedge. Hickory Handle, 18 in. Long; Weight, Each, About 1¾ Lbs. ..$1.00

Open Stock

TILLER HANDLES

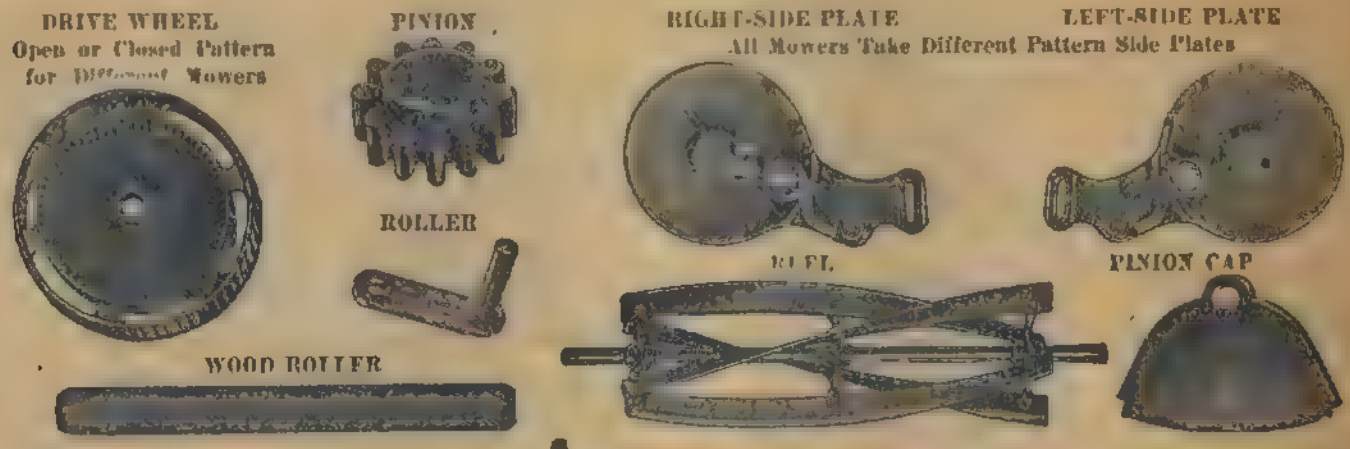
Each

For Pit, Whip or Ice Saws; Beech Handle, 19 in. Long; Weight, Each, About 3¼ Lbs. ..$1.25

Open Stock

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted, size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.



CRESTLAWN

	Parcel Post or Express
No. C6-10—Drive wheel; weight, 8 lbs; each	$3 00
No. C03—Right-side plate; weight, 6½ lbs; each	3 00
No. C04—Left-side plate; weight, 6¼ lbs; each	3.00
Reel, 5 blade, complete, all sizes. (State size of mower, number of blades and cutter bar number); express only; each	7.50
L614—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 5¾ lbs; each	3.00
L616—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 6½ lbs; each	3.00
L618—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 6¼ lbs; each	3 00
L620—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 6¾ lbs.; each	3 00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs; each	.75
Wood handle, complete, express only; each	3 00
Wrench; weight, 7 oz.; each	.35
Steel wheel spindle, complete; weight, 5 oz.; each	2 25
Right C15, Left C16—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30
No. 6—Cones, both sides alike; mail; weight, 2 oz.; each	.60

	Parcel Post or Express
No. A63—Pin on cap, both sides alike; mail; weight, 2 oz., each	$0.20
No. 1912—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz; each	.10
No. 3—Ball-bearing case, both sides alike; mail; weight, 1 oz; each	.50
No. 42—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each (Extra balls, 5 cents each).	.60
Cutter bar adjusting bolts, with nuts; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Pin for cutter bar adjustment; mail; weight, 1 oz.; each	.10
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail; weight, 2 oz.; each	.60
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Shrub rod nuts; mail; weight, 1 oz.; each	.10
Cutter bar adjusting nuts; mail; weight, 1 oz.; each	.10
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30
Pins for ball-bearing device; mail; weight, 1 oz.; each	.10
Springs for ball-bearing device; mail; weight, 1 oz; each	.30
Pinion cap machine screws, with nuts; mail; weight, 1 oz.; each	.10
Steel wheel sleeve, complete; mail; weight, 3 oz.; each	2 00

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

HERCULES

	Parcel Post or Express
No. H34-10½—Drive wheel; weight, 7 lbs.; each	$1 75
No. H11—Right side plate; weight, 4½ lbs.; each	2 25
No. H22—Left side plate; weight, 4½ lbs.; each	2.25
Reel, 4 blade complete, all sizes (state size of mower, number of blades and cutter bar number); express only; each	5.50
H14-in.—Cutter bar complete, with tempered steel blade (state size wanted, give number appearing on the cutter bar); weight, 3¾ lbs.; each	2.00
H16-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on the cutter bar), weight, 4 lbs.; each	2.00
H18-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2.00
H20-in.—Cutter bar, complete with tempered steel blade (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each	2 00
Handle irons, both sides alike (state size of mower and cutter bar number), weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number), weight, 2 lbs.; each	.75
Steel wheel axle shrub rod; weight, 3 lbs.; each	2 50
Wrench; weight, 7 oz.; each	.10
End reel spiders; weight 6 oz.; each	.60
Center reel spiders, weight, 5 oz., each	50
Wood handle, complete, express only, each	2 00
Right B5, Left B6—Pinion, mail; weight, 4 oz., each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30

	Parcel Post or Express
No. 2—Cones, both sides alike; mail; weight, 2 oz.; each	$0 60
No. 3—Pinion cap, both sides alike; mail; weight, 2 oz.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number; mail; weight, 1 oz. each	.50
No. 1—Ball bearing case, both sides alike; mail; weight, 1 oz.; each	.10
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz., each	.60
(Extra balls, 5c each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail, weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail, weight, 1 oz.; each	.10
Pinion cap machine screws, with nut; mail; weight, 1 oz.; each	.10
Set screws for fastening side plate to axle rod, mail; weight, 1 oz; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz; each	.10
Handle grip joint bolt, with nut; mail, weight, 2 oz., each	.10
Upper handle cap; mail; weight, 2 oz., each	15
Lower handle cap; mail, weight, 4 oz.; each	30
Springs for ball bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each	.30
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail, weight, 2 oz., each	60
Steel sleeve for wheel spindle; mail; weight, 2 oz, each	1 00

FENDEN

	Parcel Post or Express
No. F31-10—Drive wheel; weight, 4¾ lbs; each	$3 00
No. F1—Right-side plate; weight, 4 lbs.; each	2 25
No. F2—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4 blades, complete, all sizes (state size of mower, number of blades and cutter bar number); express only; each	5.50
H14-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	3.00
H16-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 4 lbs.; each	3.00
H18-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	3.00
H20-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar, weight, 4½ lbs.; each	3 00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs., per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Steel wheel axle for shrub rod; weight, 3 lbs.; each	2.50
Wrench; weight, 7 oz.; each	.10
No. F647—End reel spiders; weight, 6 oz.; each	.60
No. F648—Center reel spiders; weight, 5 oz., each	.50
Wood handle, complete, express only; each	2 00
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30

	Parcel Post or Express
No. 2—Cones, both sides alike; mail; weight, 2 ozs.; each	$0.60
No. 3—Pinion cap, both sides alike; mail; weight, 4 ozs.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 1—Ball-bearing case, both sides alike; mail, weight 1 oz.; each	.50
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5 cents each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nuts; mail; weight 1 oz.; each	.10
Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail; weight, 2 oz.; each	.60
Steel sleeve for wheel spindle; mail; weight, 2 oz; each	1.00

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using the mower. Be sure and give diameter of drive wheel.

MELROSE

	Parcel Post or Express
No. H56-10—Drive wheel. Weight, 8¼ lbs; each	$2.25
No. H67—Right-side plate. Weight, 5 lbs.; each	2.25
No. H68—Left-side plate. Weight, 5 lbs.; each	2.25
Reel, 5-blade, complete, all sizes. (State size of mower, number of blades and cutter bar number.) Express only	7.50
No. H14—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 3⅜ lbs.; each	3.00
No. H16—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4 lbs.; each	3.00
No. H18—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4¼ lbs.; each	3.00
No. H20—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each	3.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wrench; weight, 7 oz.; each	.10
Wood handle, complete; express only	2.00
Right C15, Left C16—Pinion; mail; weight, 4 oz; each	.35
No. 4—Roller arms; both sides alike; mail; weight, 4 oz.; each	.30
No. 6—Cones; both sides alike; mail; weight, 2 oz.; each	.60
No. L. W.—Wheel washers; both sides alike; mail; weight, 1 oz.; each	.10
No. 1912—Hardened steel pawls; both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 8—Ball-bearing case; both sides alike; mail; weight, 1 oz.; each	.50
No. 42—Ball retainer; both sides alike; with balls; mail; 2 oz.; each	.60
(Extra balls, 5 cents each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nuts; mail; weight, 2 oz.; each	.10
Wheel bolts; mail; weight, 1 oz.; each	.10
Shrub rod nuts; mail; weight, 1 oz.; each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30

ADMIRAL

	Parcel Post or Express
No. 34-10—Drive wheel; state letter cast in wheel whether A, B, H, K or S; weight, 7 lbs.; each	$2.25
No. 411—Right-side plate; weight, 4½ lbs; each	2.25
No. 422—Left-side plate; weight, 4½ lbs.; each	2.25
Reel, 4 blades, complete, all sizes (state size of mower, number of blades, and cutter bar number); express only; each	5.50
No. A612—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar; weight, 3½ lbs.; each	2.00
No. A614—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	2.00
No. A616—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4 lbs.; each	2.00
No. A618—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2.00
No. A620—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wrench; weight, 7 oz.; each	.10
Wood handle, complete, express only; each	2.00
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms; both sides alike; mail; weight, 4 oz., each	.30
No. 2 Cones, both sides alike; mail; weight, 2 oz., each	.60
No. 4—Wheel washers, both sides alike; mail; weight, 1 oz., each	.10
No. 3 Pinion cap; both sides alike, mail; weight, 2 oz.; each	.20
No. 15 Hardened steel pawls both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 1—Ball-bearing case; both sides alike; mail, weight, 1 oz.; each	.40
No. 27—Ball retainer; both sides alike; with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5 cents each)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nuts; mail; weight, 1 oz.; each	.10
Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Upper handle cap; mail, weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each	.30

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left," are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

PARAGON

	Parcel Post or Express
No. J20—Drive wheel, weight, 4¾ lbs; each	$1.40
No. J11—Right side plate, weight, 4 lbs.; each	2.25
No. J22—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4 blades complete, all sizes (state size of mower, number of blades, and cutter bar number), express only; each	5.50
A508—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar), weight, 2½ lbs., each	2.00
A510—Cutter bar, complete, with steel blade (state size wanted give number appearing on cutter bar); weight, 3 lbs.; each	2.00
A512—Cutter bar complete, with steel blade (state size wanted give number appearing on cutter bar), weight, 3½ lbs., each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs., each	2.00
A516—Cutter bar complete, with steel blade (state size wanted give number appearing on cutter bar), weight, 4 lbs., each	2.00
A518—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar), weight, 4¼ lbs., each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar), weight, 4½ lbs., each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60

	Parcel Post or Express
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs., each	$0.75
Wrench; weight, 4 oz.; each	.10
Wood handle, complete, express only; each	2.00
Right B5, Left B6—Pinion, mail, weight, 4 oz., each	.35
No. 4—Roller arms, both sides alike, mail, weight, 4 oz., each	.30
No. 2—Cones, both sides alike, mail, weight, 2 oz., each	.60
No. L. W.—Wheel washers, both sides alike; mail, weight, 1 oz; each	.10
No. 3—Pinion cap, both sides alike, mail, weight, 2 oz.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number), mail, weight 1 oz., each	.10
No. 1—Ball bearing case, both sides alike, mail, weight, 1 oz.; each	.50
No. 27—Ball retainer, both sides alike with balls; mail; weight, 2 oz.; each	.60
(Extra balls 5 cents each)	
Cutter bar adjusting screws, mail; weight, 1 oz; each	.10
Cutter bar pivotal screws; mail, weight, 1 oz., each	.10
Roller arm bolts with nuts; mail, weight, 1 oz., each	.10
Handle iron bolts, with nuts, mail, weight, 2 oz.; each	.10
Handle grip joint bolt, with nut, mail weight, 2 oz., each	.10
Wheel bolts, mail, weight, 1 oz., each	.10
Shrub rod nuts; mail; weight, 1 oz.; each	.10
Upper handle cap; mail, weight, 2 oz., each	.15
Lower handle cap, mail; weight, 4 oz., each	.30
Springs for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz., each	.30

DIRECTOR BALL BEARING

	Parcel Post or Express
No. 34-9—Drive wheel, state whether letter cast in wheel is A, B, R or S, weight, 5½ lbs., each	$1.75
No. 411—Right-side plate, weight, 4½ lbs.; each	2.25
No. 422—Left-side plate; weight, 4½ lbs.; each	2.25
Reel, 4 blade, complete, all sizes. (State size of mower, number of blades, and cutter bar number) express only; each	5.50
A512—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight 3½ lbs.; each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	2.00
A516—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4 lbs.; each	2.00
A518—Cutter bar, complete with steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wood handle, complete, express only; each	2.00
Wrench, weight, 7 oz.; each	10

	Parcel Post or Express
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	$0.35
No. 4—Roller arm, both sides alike; mail, weight, 4 oz.; each	.30
No. 2—Cones, both sides alike; mail; weight, 2 oz.; each	.60
No. A—Wheel washers, both sides alike; mail weight, 1 oz.; each	.10
No. 3—Pinion cap, both sides alike, mail; weight, 2 oz.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 1—Ball-bearing case, both sides alike; mail; weight, 1 oz.; each	.50
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5c each).	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight 1 oz.	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nut; mail; weight, 1 oz.; each	.10
Set screws for fastening side plate to axle rod, mail; weight, 1 oz.; each	.10
Handle iron bolts and nuts; mail, weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail, weight, 2 oz., each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each	.30

REPAIRS FOR F. & N. LAWN MOWERS

BABY GRAND

	Parcel Post or Express
No. 20—Drive wheel; weight, 4¾ lbs; each	$1.75
No. 211—Right-side plate; weight, 4 lbs.; each	2.26
No. 222—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4-blade, complete, all sizes (state size of mower, number of blades and cutter bar number); express only, each	5.50
A508—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 2½ lbs., each	2.00
A510—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 3 lbs., each	2.00
A512—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight 3½ lbs., each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 3¾ lbs.; each	2.00
A516—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4 lbs.; each	2.00
A518—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4¼ lbs; each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wrench; weight, 7 oz.; each	.10
Wood handle, complete, express only; each	2.00
Right No. B5, Left No. B6—Pinion; mail, weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30
No. 2—Cones, both sides alike, mail; weight, 2 oz; each	.60
No. L. W.—Wheel washers, both sides alike; mail, weight, 1 oz.; each	.10
Springs for ball-bearing device; mail; weight, 1 oz., each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz., each	.30

CLOVER LEAF

	Parcel Post or Express	
No. 20—Drive wheel; weight, 4¾ lbs	Each	$1.75
No. 111—Right-side plate. Wt, 4 lbs	"	1.75
No. 122—Left-side plate. Wt, 4 lbs	"	1.75
Reel, 3 blades, complete, all sizes. (State size of mower, number of blades, and cutter bar No.), express only	"	4.00
A508—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 2½ lbs	"	2.00
A510—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3 lbs	"	2.00
A512—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3½ lbs	"	2.00
A514—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3¾ lbs	"	2.00
A516—Cutter bar, complete with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 4 lbs	"	2.00
A518—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 4¼ lbs	"	2.00
A520—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt 4½ lbs	"	2.00
Handle irons, both sides alike (state size of mower and cutter bar No.). Wt, 3½ lbs	Per pair	.60
Wood roller, all sizes. (State size wanted and cutter bar No.). Wt, 2 lbs	Each	.75
Wrench. Wt, 7 ozs	"	.10
Wood handle, complete, express only	"	2.00
Right B5, Left B6—Pinion; mail. Wt, 4 oz	"	.35
No. 4—Roller arms, both sides alike; mail. Wt, 4 oz.	"	.30
No. L. W.—Wheel washers, both sides alike; mail. Wt, 1 oz	"	.10

PANAMA

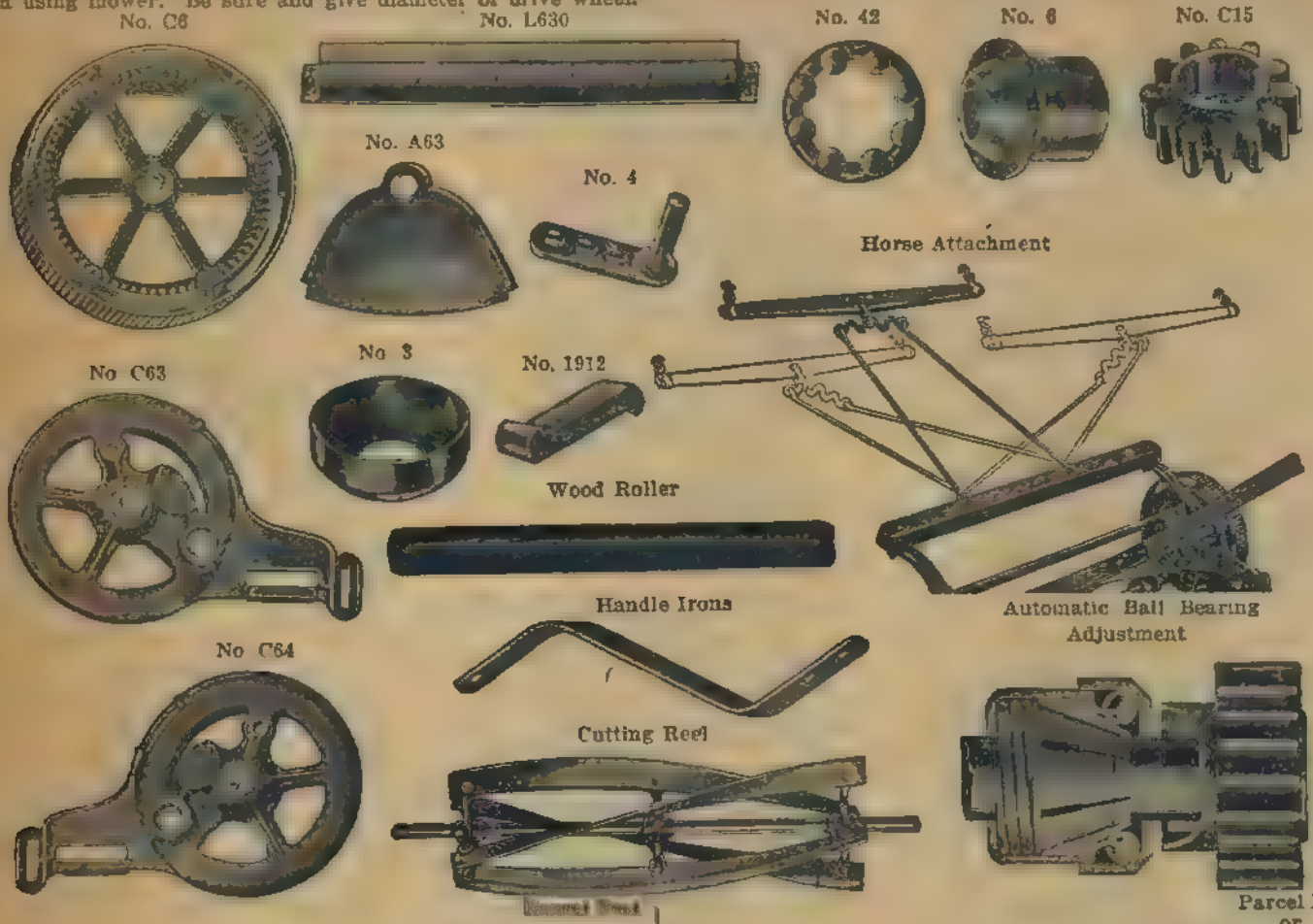
	Parcel Post or Express	
No. J20—Drive wheel. Wt, 4½ lbs	Each	$1.75
No. J33—Right-side plate. Wt, 4 lbs	"	1.75
No. J44—Left-side plate. Wt, 4 lbs	"	1.75
Reel, 3 blade, complete, all sizes. (State size of mower, number of blades, and cutter bar No.), express only	"	4.00
B508—Cutter bar, Complete with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 2½ lbs	"	2.00
B510—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3 lbs	"	2.00
B512—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3½ lbs	"	2.00
B514—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3¾ lbs	"	2.00
B516—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4 lbs	"	2.00
B518—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4¼ lbs	"	2.00
B520—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4½ lbs	"	2.00
Handle irons, both sides alike. State size of mower and cutter bar No.). Wt, 3½ lbs	Per pair	.60
Wood roller, all sizes. (State size wanted and cutter bar No.). Wt, 2 lbs	Each	.75
Wrench. Wt, 7 ozs	"	.10
Wood handle, complete, express only	"	2.00
Right B5, Left B6—Pinion; mail. Wt, 4 ozs	"	.35
No. 4—Roller arms, both sides alike; mail. Wt, 4 ozs	"	.30
No. L. W.—Wheel washers, both sides alike; mail. Wt, 1 oz	"	.10
No. J—Pinion cap, both sides alike; mail. Wt, 2 ozs	"	.20

The following parts are alike for Baby Grand, Clover Leaf and Panama lawn mowers

	Parcel Post or Express	
No. 15—Hardened steel pawls, both sides alike. (State side plate No.), mail. Wt, 1 oz	Each	$0.10
Cutter bar adjusting screws, mail. Wt, 1 oz	"	.10
Cutter bar pivotal screws, mail. Wt, 1 oz	"	.10
Machine screws, with lock nuts for reel bearing adjustment, mail. Wt, 1 oz	"	.10
Roller arm bolts, with nuts, mail. Wt, 1 oz	"	.10
Handle iron bolts, with nuts, mail. Wt, 2 ozs	Each	$0.10
Handle grip joint bolt, with nut, mail. Wt, 2 ozs	"	.10
Wheel bolts, mail. Wt, 1 oz	"	.10
Shrub rod nuts, mail. Wt, 1 oz	"	.10
Bronze bearings, mail. Wt, 1 oz	"	.10
Upper handle cap, mail. Wt, 2 ozs	"	.15
Lower handle cap, mail. Wt, 4 ozs	"	.30

REPAIRS FOR F. & N. LAWN MOWERS
CRESTLAWN PONY MOWER

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.



	Weight	Express
No. C6-11—Drive wheel	4¾ lbs., each	$6.00
No. C63—Right-side plate	4 lbs., each	6.00
No. C64—Left-side plate	4 lbs., each	6.00
Reel, 4 blades, complete. (State size of mower and cutter bar number.) Express only		22.00
Cutter bar, complete, with lipped edge steel blade (give number appearing on cutter bar). Express only		16.50
Handle irons, both sides alike. (State size of mower and cutter bar number)	3½ lbs., pair	1.50
Wood roller, all sizes (state size wanted and cutter bar number)	2 lbs., each	1.50
Wood handle, complete, express only		8.00
Wrench	7 oz., each	.35
Steel wheel spindle, complete	5 oz., each	2.25
		Mail
Right C15, Left C16—Pinion	4 oz., each	.35
No. 4—Roller arms; both sides alike	4 oz., each	.30
No. A63—Pinion cap; both sides alike	2 oz., each	.20
No. 1912—Hardened steel pawls; both sides alike (state side plate number)	1 oz., each	.10
No. 3—Ball bearing case; both sides alike	1 oz., each	.50
No. 42—Ball retainer; both sides alike, with balls (Extra balls, 5c each.)	2 oz., each	.60
Cutter bar adjusting bolts, with nuts	1 oz., each	.10

	Parcel Post or Weight	Express
Roller arm bolts, with nuts	1 oz., each	$0.10
Handle iron bolts with nuts	2 oz., each	.10
Handle grip joint bolt, with nut	2 oz., each	.10
Pin for cutter bar adjustment	1 oz., each	.10
Stationary cone for wheel (give number of wheel)	1 oz., each	.60
Outside adjusting cone for wheel (give number of wheel)	2 oz., each	.60
Upper handle cap	2 oz., each	.15
Lower handle cap	4 oz., each	.30
Shrub rod nuts	1 oz., each	.10
Cutter bar adjusting nuts	1 oz., each	.10
Metallic sleeve for ball bearing device	1 oz., each	.20
Pins for ball bearing device	1 oz., each	.10
Springs for ball bearing device	1 oz., each	.20
Pinion cap machine screws, with nuts	1 oz., each	.10

Horse Attachment

D27—Horse attachment arm, left hand	.40
D28—Horse attachment arm, right hand	.40
D29—Clamp for No. 27	.40
D30—Clamp for No. 28	.40
D31—Draft rod clevis	.40
D32—Horse attachment draft rod and clip	.40
D33—Horse attachment bar	.70
D34—Whiffletree handle	.70
D35—Whiffletree	.70

REPAIRS FOR F. & N. LAWN MOWERS

FENDEN HORSE MOWER

Always give number or letter with description of parts wanted; size and name of machine. If broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

	Parcel Post or Express Each
E3—Right hand side plate	$20 00
E4—Left hand side plate	12 00
E5—Left hand gear shield	9 00
E20—Small lid on gear shield	1.00
E7—Right hand reel bearing hanger	2.40
E8—Left hand reel bearing hanger	2 40
E1—Back cross bar (state size), 30-inch	8 00
E1—Back cross bar (state size), 35-inch	9.00
E1—Back cross bar (state size), 40-inch	10.00
E21—Front cross bar (state size), 30-inch	8.00
E21—Front cross bar (state size), 35-inch	9.00
E21—Front cross bar (state size), 40-inch	10 00
E14—Tool box	3.00
E6—Ring bracket for tool box lid	1.00
E15—Lid for tool box	1.20
L8—Clutch arm (throwing mower in and out of gear)	.80
E18—Clutch handle (throwing mower in and out of gear)	1.20
E10—Small front wheels (both alike)	4.00
L10—Fork hangers for front wheels (both alike)	4.00
E11—Pinions for lowering or raising front wheels (both alike)	1.00
E12—Pinion caps for E11 (both alike)	1.00
L2—Long lever arm for lowering or raising device	2.00
L4—Small clutch arm for L2	1 00
L5—Clips on L2 lever arm (both alike)	.60
L1—Short connecting arm to L2	.80
L6—Long connecting arm to L2	1.00
L3—Quadrant latch for L2	1.00
L7—Notched quadrant ring	1 20
L11—Shaft clips (fit on E21)	1 60
E13—Hangers for drive roller shaft bearings (both alike)	1 60
E16—Clutch on drive roller shaft	2 00
Right hand drive roller (state size of mower), 30-inch	16.00
Right hand drive roller (state size of mower), 35-inch	18.00
Right hand drive roller (state size of mower), 40-inch	20 00
Left hand drive roller (state size of mower), 30-inch	16.00
Left hand drive roller (state size of mower), 35-inch	18.00
Left hand drive roller (state size of mower), 40-inch	20.00

	Parcel Post or Express Each
Drive roller shaft, 30-inch	$ 5.00
Drive roller shaft, 35-inch	6.00
Drive roller shaft, 40-inch	7 00
E17—Large single gear on drive roller shaft	6.00
E19—Large double gear on stud in center of gear shield	10 00
E2—Small gear on revolving reel shaft	1 20
E23—Pawl holder	2 40
E9—Pawls (all alike)	.40
Wood roller (state size of mower)	10 00
E24—Bracket for wood roller (both alike)	1.00
E20, E35 and E40—Cutter bar castings for 30-inch	10 00
E30, E35 and E40—Cutter bar castings for 35-inch	12 00
E20, E35 and E40—Cutter bar castings for 40-inch	14 00
Bottom knife—Flat blade, 30-inch	17 00
Bottom knife—Flat blade, 35-inch	18 00
Bottom knife—Flat blade, 40-inch	19.00
Bottom knife—Upturned lip, 30-inch	19.00
Bottom knife—Upturned lip, 35-inch	20 00
Bottom knife—Upturned lip, 40-inch	21.00
Single reel blades, 30-inch	5 50
Single reel blades, 35-inch	6 00
Single reel blades, 40-inch	6.50
E847—Single reel braces (all alike) for 4-blade mowers	3 00
E857—Single reel braces (all alike) for 5-blade mowers	3 00
Brass bushings for reel bearings (both alike)	3 00
Reel shaft, 30-inch	5 00
Reel shaft, 35-inch	6.00
Reel shaft, 40-inch	7.00
Reel complete, 30-inch	38 00
Reel complete, 35-inch	40 00
Reel complete, 40-inch	42 00
Wrought iron handle	15 00
Seat	6.00
Seat spring	6 00
Foot board	4 00
Screws, bolts, nuts (state for what part or number wanted), small standard sizes	.10
Screws, bolts, nuts (state for what part or number wanted), large specials	.20

"PARAMOUNT"

COMMERCIAL BODIES FOR FORD CARS

"Paramount" Bodies are **made right.** They are built to meet all conditions of service. The demand for commercial bodies for Ford cars is increasing every day. Think how many prospective purchasers there are in your locality. Sell them.

Shipped directed from factory in Central Illinois. F.O.B. 48 hours service.

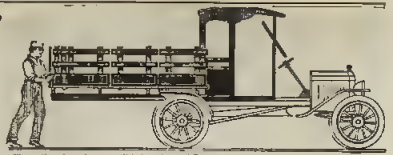


Illustration shows how easy it is to put on a "Paramount" commercial body. NO EXTRA EXPENSE. They can be slipped on in 5 minutes and attached, ready for use in 20 minutes

"PARAMOUNT" SLIP-ON BODY FOR FORD ROADSTERS

In stock in Jersey City for immediate shipment

SPECIFICATIONS

BODY—Is 30 wide, 17 in high over all. Hardwood flare boards with 8 double steel braces on each side. Heavy pads on flare boards cannot mash them down. 1½x2 in hard wood crosses at balance of body made from 2x2 in. stock. Heavy strap hinges on end gate with snap catch to fit body perfectly. Black. Carried in stock for immediate shipment

PAINTING—Black

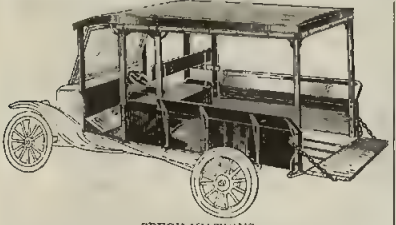
SHIPPING WT.—Knocked down and crated, 145 lbs., all parts drilled and bored so that body is ready to fit further necessary bolts furnished

4K4981 (1) Inches long . . . . . Each **$11.50**

4K4978 (8) **12.50**

"PARAMOUNT" EXPRESS BODY

Can be used for practically any kind of business that calls for general trucking or delivery car. All shipments F. O. B. Factory, Chicago, Ill



SPECIFICATIONS

BODY—Sills made of carefully selected and seasoned hardwood, panels are 16 in. high inside, heavy flare boards. Full wide folding gate back on driver's seat

CUP—Heavy, well rounded 18 pressed steel cups designed to withstand rough usage, heavy rubber covered dock, heavy, black enameled duck roll up curtains all around, supported by cross curtains with steel mop hooks on either side of drivers seat

PAINTING—Blue

LOADING SPACE—42x82 in. 34 in. high, full width rear end gate with chains, adjustable to any style of load

SHIPPING WT.—Knocked down and crated under 700 lbs.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons, all irons necessary for attaching to chassis

4K4979 1 in crate . . . . . Each, **$65.75**

4K4981 Windshield extra **17.75**

"PARAMOUNT" EXPRESS BODY FOR ANY MODEL T FORD CAR

Well adapted to use of Farmer, Dairyman, Hardware and General Use. All shipments F. O. B. Factory, Chicago, Ill

SPECIFICATIONS

BODY—Panels 10 in. high. Corners metal bound. Entire body well ironed and braced with 4 double steel braces on each side. Floor protected by iron strips. All cross rails, stills and flare boards hardwood. Balance of body made of selected stock

PAINTING—Black

LOADING SPACE—42x82 in. Full width rear end gate with chain

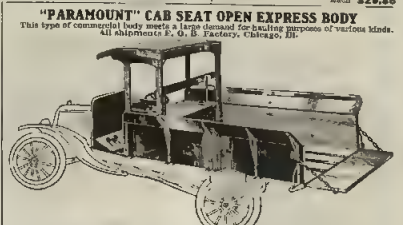
SHIPPING WEIGHT—Crated, 350 lbs.

EQUIPMENT—Includes toe boards and irons, also all irons necessary for attaching to chassis. Rear lamp bracket

4K4975 1 in crate . . . . . Each **$29.85**

"PARAMOUNT" CAB SEAT OPEN EXPRESS BODY

This type of commercial body meets a large demand for hauling purposes of various kinds. All shipments F. O. B. Factory, Chicago, Ill.



SPECIFICATIONS

BODY—Panels are 10 in. high inside, corners metal bound entire body well ironed and braced floor protected by iron strips, 4 double steel braces on each side. Easy back entire width of seat

PAINTING—Black, regular

LOADING SPACE—42x82 in. full width rear end gate, with chains enabling one to adjust body to any style of load. Hardwood sills, cross rails, and flare boards.

SHIPPING WT.—Crated under 34 in., 800 lbs.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons, also all irons necessary for attaching to chassis

4K4977 1 in crate . . . . . Each, **$47.95**

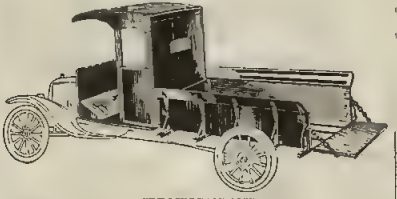
4K4981 Windshield extra **17.75**

BODIES FOR FORD ONE TON CHASSIS

"PARAMOUNT" EXPRESS BODY

The body for the new Ford One Ton Truck is not supplied by the Ford Motor Company and there is, therefore, a big demand to be supplied by the dealers.

All shipments F. O. B. Factory, Chicago, Ill.



SPECIFICATIONS

BODY—Well seasoned hardwood sills and floors protected with steel strips, panel 14 in. high, 3 doors with heavy wrought braces inside and heavy malleable braces outside, 2 in. flare boards supported with wrought braces and protected by double steel strips. End gate beveled ironed and equipped with chains.

PAINTING—Black

LOADING SPACE—Inside 60x90 in.

SHIPPING WT.—Knocked down and crated under 34 in., 800 lbs.

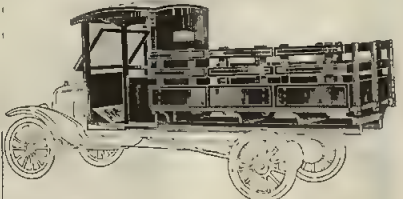
4K9824—1 in crate . . . . . Each **$89.25**

4K4981—Windshield extra **17.75**

"PARAMOUNT" COMMERCIAL STAKE BODY

The body for the new Ford One Ton Truck is not supplied by the Ford Motor Company and there is, therefore, a big demand to be supplied by the dealers.

All shipments F. O. B. Factory, Chicago, Ill.



SPECIFICATIONS

BODY—Sills of well seasoned hardwood, cross sills heavily ironed to longitudinal sills, floors hardwood protected with steel strips. Platform body with removable sections on each side, removable

PAINTING—Black

LOADING SPACE—Inside 60x90 in.

SHIPPING WT.—Knocked down and crated under 34 in., 800 lbs.

4K4972 1 in crate . . . . . Each **$86.75**

4K4981 Windshield extra **17.75**

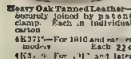
FOR FORD CARS

FAN BELTS

Heavy Oak Tanned Leather—securely joined by Basset clamp. Each in individual carton

4K3271—For 1916 and earlier models ..... Each 22c

4K3... For ...1917 and later mod... Each 24c



Specially Fronted Fabric—Oil and waterproof. Positively forced service guaranteed against defects. In carton

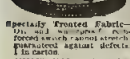
4K3570—1916 and earlier models ..... Each 26c

4K3571—1917 and later models ..... Each 28c

Quick Detachable Belts—Quick detachable, of rubber stands to get out of, better than any other belt. Each in individual carton

4K3717—For 1916 and earlier models ..... Each 28c

4K3718—For 1917 and later models ..... Each 30c

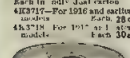


Silent Running Belts—Selected oak tanned leather, oil and waterproof. S in. invisible waterproof splice. Each in individual carton

4K4560—For 1916 and earlier models ..... Each 28c

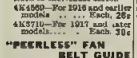
4K3719—For 1917 and later models..... Each 30c

"PEERLESS" FAN BELT GUIDE



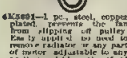
4K3691—1 pc., steel, copper plated, prevents the fan from slipping off pulley. Easily installed to keep to remove radiator or any part of motor adjustable to any position. Adjustable to fit the belt. belt need not be tight. Each in box. Each, 12c

"APCO" FAN BELT GUIDE



4K4940—Made from 2 pcs. steel, easily attached to engine bolt. Keeps belt in correct position, prevents coming off ..... Each, 17c

FAN BELT GUIDE

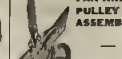


4K3578—Adjustable, readily attached to side of timer gear housing without extra bolt or bolt. 1 in pkg. Each, 17c

TRANSMISSION LINING SET

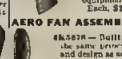
4K7783—Twill woven lining set for the original Ford. Using this lining in place of any other weave prevents slipping or unsmooth operation of the transmission, especially when grease or oil gets on it. Will last three times as long as any other weave. Set of three bands to be riveted with brass rivets ..... Set $.65

FAN AND PULLEY ASSEMBLY



4K4895 Ford No. 3960. Duplicate of regular Ford equipment ..... Each, $1.00

AERO FAN ASSEMBLY



4K5878—Built on the same principle and design as aeroplane fans. Creates twice the volume of air as a Fan bladed fan and throws the cool air directly on the cylinders. 33½ in. motor. Sturdy construction—black finish ... in pkg. Each 95c

MALLEABLE IRON BRAKE SHOES

Heavy malleable iron construction springs fits any Ford car since 1917 inclusive. 2 shoes to set. 1 set in box Set

4K4826—1 pc. unlined 40c

4K4827—2 pc. unlined 45c

4K4951—2 pc. asbestos lined, Set, 80c

STEEL BRAKE SHOES

Braced steel emergency brake shoes guide medium conforms shoe to drum gives 30% additional braking surface

4K4820 Non-adjustable, asbestos lined, fits any model Ford car also 1917 inc. Pr. $1.40

4K4821 Adjustable, asbestos lined fits any model T Ford car, adjusting feature gives efficient brake pull. Lining is entirely worn out. Pr. $1.30

"ADJUSTCO" BRAKE SHOE

4K4281—Adjustable, Raybestos lined, fits any model T Ford car, 2 pc special adjustment feature operated from outside of brake and emergency brake pedal can be set proper tension without relining or running, will outlast 3 ordinary shoes. Pr. $2.15

TRANSMISSION LINING SETS

8 strips cut to correct length with brass rivets without wires to prevent short circuit

National—Close mesh lining wearing fabric twill weave, treated to prevent curling 4K9?4—1 set ..... Set 50c

"Risco"—80% long fiber asbestos, loose weave, high quality lining. Set

4K3?1—1 set in box 85c

"TUFTEX" TRANSMISSION LINING SET

4K3?56—Non-rattle, twill reinforced, cushion, treated to prevent burning, stated evenly advertised 1 set in box with rivets Set, $.80

CORK INSERT TRANSMISSION LINING

4K9?39 Cork runs quietly and smoothly, gives hard reverse without jerking, steady, even, smooth braking action, runs close, grips pressure on pedal, no grabbing, slipping, chattering, outwears three sets of original linings, nationally advertised. 1 in pkg. Each $2.40

"GARCO" TRANSMISSION LINING SET

4K7840 Asbestos and cotton compounded, close mesh, durable, gives smooth, sure brake action, prevents chattering, nationally advertised. 1 set in box with rivets Set, $1.15

"DEPENDABLE" REAR BUMPER AND TIRE CARRIER

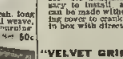
4K3650—Heavy angle steel no rust parts holds 1 or 2 tires, spare wheels on demountable rims, complete with license and lamp brackets and directions for attaching. No straps furnished. fits any Ford or Chevrolet. Each, $3.65

Each in carton with all fittings.

TRANSMISSION BAND ADJUSTER

4K8684—Cold rolled steel turned on arbor to fit perfectly. Pins are pressed in by power press, no danger of dropping out. Improved diagonal lock washer. 1 pc. in set. No adjustments necessary to install, adjustment can be made without removing cover to crank case. Set in box with directions Set $3.00

"VELVET GRIP" TRANSMISSION HAND ADJUSTER



4K3?62 Anti-rattle drop forged and nickel plated stampings of high flange shape which can be used on all models. Each equipped hand secures 3 ends of handrod. Screwed guide hand from the dash, giving clear control around drum. Complete in box with instructions for attaching. Each, +1.10

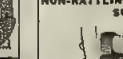
NON-RATTLING SOCKETS

Finest grade malleable iron black enameled hardened steel socket, heavy spring takes up wear and absolutely prevents rattling, adjustable screw ping with lock. Order 1 pr. steering wheel socket and 1 radius wheel sockets for complete set.

4K4604—Steering rod sockets, Pr. 27c

4K4685—Rad ius rod sockets, Each 27c

"LYON" BUMPERS

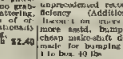


The largest selling bumper on the market, extensively advertised, has obtained an unprecedented record for efficiency (Additional 81% thereof on more for 1? in stock hand. Designed. No cheap make-shift device, but made for bumping purposes. 1 to box 40 lbs.

4K3770—(Mrs No. 7), black enamel trimmings, Each, $7.50

4K3771—(Mrs No. 8), nickel black trimmings, Each, $9.00

"DEPENDABLE" FRONT BUMPER



4K3681—Heavy angle steel no rust parts. Each in box with fittings, 10 lbs. Each, $3.50

"W-X" SHOCK ABSORBERS

High grade malleable iron, black enamel, springs can be attached without extra tools, compression springs cause recoil like auto's also prevent breaking with noise, squeak or rattle. Each set in box with 4 rust ins for attaching.

4K4982—Roadster ... } Set
4K4983—Touring ... } $4.25

"HARTFORD" SHOCK ABSORBERS

4K3?81 1 shock absorbers 1 front and 2 rear complete with attachments set in box. Set, $22.50

CANTILEVER SHOCK ABSORBERS

Double arm shock absorbers for Ford cars, steel arms, heavy coil springs, heavy coil springs, heavy coil springs

FOR FORD CARS

RUNNING BOARD TIRE HOLDERS

4K8686—Malleable iron, properly ribbed back reinforced, curved flange eliminates vibration tires are supported at three different points one or two sizes or demountable rims can be carried. Floor plate bolted to the running board. Complete upper bracket, floor plate and three straps. 1 set in carton.
Set, $1.20

Black enameled steel frame electric welded joints, attached to left running board, tire lock hasp base tight and strong. 1 in carton.
4K8895—Holds 2 tires.
Each $2.25
4K8896—Holds 1 tire.
Each $1.35

REAR TIRE & LIGHT HOLDERS

Black japanned baked steel frame electric welded joints designed to carry blackout and license pad. 1 in carton.
4K8891 Holds 1 tire $2.35
4K8839— " 2 " ... 3.75

CUSHIONS

Regular type [illegible] Top has one row of buttons nicely padded, comfortable and gives car first class appearance. 1 in pkg.
4K8190 [illegible] Each
4K8191 [illegible] $4.35
4K8192 [illegible]

"EMCO" TIRE CARRIERS

Adopted as standard equipment on all 1930 enclosed Fords. Black enameled sheet steel, easily attached, no bolt or straps required, simply pull with hand releases tire and slight push anchors it fast, canvas work loose.

4K2880—Double clincher, for 2 clincher tires without rims, size 30x3 and one tube. 1 in pkg. Each $3.00
[illegible] Pr. 5.80

4K1901 [illegible] for 2 clincher tires without rims, for Ford and Lincoln models. 1 in pkg. Each, $4.20
Lots of 6 or more. Ea. $3.90

LINOLEUM COVERED RUNNING BOARD

4K8862—Close California rubber [illegible] Made from 3 ply [illegible] Aluminum covered bolts supplied, easy to attach. 1 pr. in carton. Pr. $5.10

DISPLAY

Do you realize the pulling power of an attractive display? Good window showings lead customers right into your store.

REAR CURTAIN LIGHTS

For replacing discolored or broken lights.
4K3387—Size 6¼ x 11⅝ in., black enameled reinforced edges sheet celluloid [illegible] 1 in pkg.
Each 30c

4K1911 [illegible] heavy clear [illegible] Complete with [illegible] 1 in pkg. Each, 45c
Lots of 12 or more, Ea. 40c

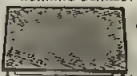
"ARISTOCRAT" GLASS REAR WINDOW SET

4K3478 For [illegible] model four grain leather with chas. highly polished stainless steel frame [illegible] Easily installed [illegible] Quite [illegible] 1 in carton.
Set, $1.85

RUBBER MATS

High grade rubber reinforced at heel-wearing spots, [illegible] holes for lever and pedals finished edge, same grade mat as [illegible] with [illegible] Ford [illegible] 1 in pkg.
4K1911 [illegible] and later [illegible] Each $1.05
4K4955—For earlier models than 1915 ..... Each, $1.05

"KOKO" MATS FOR RUNNING BOARDS



Aluminum frame, patent locking spring clamp, securely and quickly attaches to running board. 1 in pkg.
4K3626—Wrench "Koko" Size Each, $0.85
4K3627—Rubber, [illegible] 1.05

TONNEAU MAT

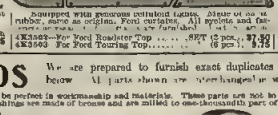
4K4586 Heavy serv.rouble [illegible] with [illegible] finish, [illegible] [illegible] model T Ford cars. Ea. 95c

BACK CURTAINS

4K3504—One pc. with [illegible] Complete with all hooks, binding tape and fasteners. Can be supplied in a few minutes. 1 in box. Each, $3.75

4K4503 [illegible] with [illegible] 6¼ x 6½ in. inside measurements. Japanned metal frame. Made of 38 oz. rubber. Complete with all fastenings. 1 in carton. Each, $4.50

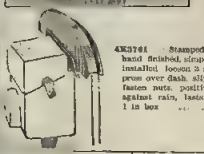
SIDE CURTAIN SETS



[illegible] equipped with generous [illegible] fabric. Adjustable to [illegible] rubber, same as origina. Ford curtains. All eyelets and fastenings [illegible] Can be furnished [illegible]
4K3562—For Ford Roadster Top ..... SET (2 pcs.) $7.50
4K3563 For Ford Touring Top..... (6 pcs.) 9.75

COIL BOX PROTECTORS

4K9737—Heavy [illegible] cup rubber, fits snugly over coil. Absolutely non-vulcanite. Rolls up to windshield when not in use. Tailored to fit. Complete with directions. 1 in box. Each 65c



4K3701 Stamped sheet steel, hand finished, simple and easily installed, loosen 2 nuts on dash, press over dash, slip in position, fasten nuts. positive protection against rain, lasts life of car. 1 in box ... Each 45c

"STURDY" EXTENSION PEDAL SET

4K5888—Made of malleable iron, heavy pyramid [illegible] eliminates vibration, [illegible] [illegible] [illegible]

FOR FORD CARS

"KINGSTON" CARBURETOR

4K4458 — Efficient flexible [illegible] carburetor which makes [illegible] prepares all air with accurate gasoline makes starting [illegible] throttle [illegible] Each, $4.80

"D. & B." SPECIAL CARBURETOR

4K4709—Float chamber of [illegible] mixture at all [illegible] Each $7.35

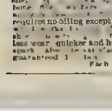
"SCHEBLER" CARBURETOR

4K4508—This new plain tube Schebler carburetor models "A" is a non-movable part [illegible] Each $1.35

CONNECTING ROD

4K4945 [illegible] Each, $12.00

"APCO" TIMER



4K4681—Heavy pressed steel [illegible] Each 75c

"GOODRICH" TIMER

4K4584 [illegible] Each, 95c

"HIGHWAY" OIL-LESS TIMER

4K4586 [illegible] stamped steel shell, bone dry fiber ring hardened to give least wear and rot-absorb oil, brush of special machine hardened bronze slightly curved to fit ring, can be [illegible] when worn and is the only part necessary to be renewed. Guaranteed to last the life of the car Each 95c

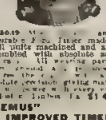
ANCO "SHORTPROOF" TIMER

4K4584 [illegible] hardened and [illegible] perfectly timed, gives a hotter and faster spark. Each in attractive carton. Each $1.35

"RED STAR" TIMER

4K4194—Stamped steel shell, copper coated and nickel plated real fiber cam resists oil and water wear and will not [illegible] pin fitted with case hardened cam sleeve, case hardened steel roller, carefully inspected. 1 in box. Each $1.40

"MILWAUKEE" TIMER



4K4549 [illegible] and durable. Fiber made, all units machined and assembled with absolute accuracy, all working parts are protected from [illegible] will not [illegible] Each 90c

"BEMUS" IMPROVED TIMER

4K4546 [illegible] pressed steel case, makes starting [illegible] Each $1.75

"GILL" PISTON RINGS

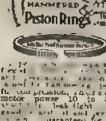
"one piece, simple and efficient [illegible] Piston Rings will adjust themselves to [illegible] Each

4K4547 [illegible] 85c
4K4548 [illegible] 85c
4K4549 [illegible] 85c

Replacement Ring—Step cut or lap joint. Gray iron. Individually cast eccentric shape, carefully gauged and [illegible] Each 12c

Complete Cast Eight Ring in one piece. Gives more power on less fuel and oil, reduce carbon and increases [illegible] Each $7.50

4K4503—3x3x3/4 [illegible] Each
4K4504—3x3x1, (Odd) [illegible] Each



4K4602—3¼ in diam. Fits 75c Doz. lots $5.75
4K4603—Oversize .031 in. Fits [illegible] Each 75c

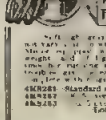
"APCO" EXHAUST PIPE CLIP

4K4948 — Prevents vibration which loosens exhaust pipe, causing rattle, cracks and [illegible] Pr. 40c

TADER COMBINED MUFFLER AND CUTOUT

4K4939 [illegible] power for hill climbing by [illegible] Having motor, 1 in carton. Sticky, Ea. 3.95 Lots of 6 or more, Each $3.68

GRAY IRON PISTONS



Standard and Oversize. Complete with rings and wrist pins

OVERSIZE PISTON for Ford Car

[illegible] Each $1.35

4K4284 Standard size .....
4K4285 .030 oversize .....
4K4283 .060 oversize .....
Lots of 50, Each $1.30

CUT-OUT OUTFITS

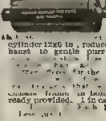
Competition Set: [illegible] foot pedal with locking device, spring cable and pulley, one-piece lever. No trouble-some adjusting lever, carefully ground, bored accurately

4K4550—1 outfit in carton Each 53c

"Flyrods"—Black enameled valve and handle cast one piece. Valve is thick, with beveled edges in closing insures a tight valve. Powerful tension [illegible] Overrule with pedal and cable.

4K4801—1 set in box. Set, 65c

MUFFLER



4K4[illegible] cylinder iron [illegible] exhaust to gentle purr and [illegible] Each $1.35

"APCO" MUFFLER AND CUTOUT

4K4941 Cast 1 pc., black enameled, self contained muffling device, large open cut out controlled by [illegible] special bracket eliminates vibration and side play exhaust pipe opening accurately [illegible] Each, $3.30

"GET-A-WAY" ACCELERATOR

4K4[illegible] [illegible] Each 35c

"RED-I-FIT" ACCELERATOR

4K4211 [illegible] Complete with fittings. 1 in box. Each, 85c

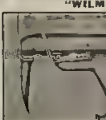
"APCO" CORK GASKET SET

4K4950—Prepared cork, practical, durable, economical, advertised 14 pcs. in set. 1 set in box. Set, 85c

"GARCO" GASKETTE

4K4541—Asbestos composition [illegible] gaskets [illegible] Roll $1.50

WELL KNOWN "VICTOR" GASKETS



Every real [illegible] dealer should carry a stock of these gaskets and should. Most of copper, brass and asbestos. When replacing head of [illegible] necessary for grinding in valves, etc., a new gasket is necessary and to make a new one from asbestos sheet is quite a task. 1 in package

4K4726—Cylinder head gasket only. Each, 32c
4K4729—Cylinder head gasket, inlet and exhaust pipe gasket and transmission drain plug gasket Each, 42c

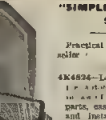
"WILMO" MANIFOLD

4K4468 — Exhaust pipe & intake manifold [illegible] 1 pc., easy access to valve adjustments, no holes to [illegible] run smoother, advertised in the leading Motor Magazines, 1 in carton with complete directions. Each $4.25

ANCO EVENHEAT MANIFOLD

4K4284 — Fits all models of Ford cars in place of old style manifold with [illegible] cuttings, [illegible] [illegible] [illegible] no moving parts [illegible] [illegible] Each $5.50

ACCELERATOR



4K4[illegible] [illegible] Each 60c

GOODRICH MOTOR TESTING VALVE

4K4[illegible] [illegible] essex coupe [illegible] Each $1.15

WILL WAIT ALL 4[illegible] Wire wheels are rapidly [illegible]

"SIMPLEX JR." STARTER

Practical and a big seller [illegible]

4K4634—Lever principle [illegible] parts, easily operated and installed, crank [illegible] to turn engine [illegible] Each $7.50

FOR FORD CARS

BAILEY BALL THRUST BEARING

4K2488—Ball thrust bearing, with washers at each end, for steering gear of Ford or Chevrolet 490 cars. Each ... $1.25

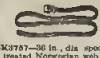
HYATT REAR AXLE ROLLER BEARING

4K5899—Right hand. Ea. $5.95
4K5700—Left ... $5.95

SIMPLEX STEERING WHEEL LOCK

4K3827—A real protection against theft. Perfect lock mechanism. Cannot be sawed, pried or broken off. Can be used on any car. Locks steering wheel to dash. Will not damage car. Light weight. Easily put on or taken off. Made of steel. Size 5½x5½ when closed. 16% reduction in price on 6 to 12 lots. Can be shipped Easily installed. 1 in box. ... $3.85

WEB TIRE STRAP



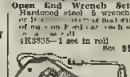
4K3787—36 in., dia. special, treated Norwegian web with steel buckle, white mark. 4 times stronger than leather. 1 doz. in bull. ...Doz. $2.85

QUICK DEMOUNTABLE WHEEL ATTACHMENT

4K3722—Makes the regular Ford wheels, quick demountable. Used on rear wheels only and can be put on or taken off in a few minutes. Can be used on any car. Made of steel. Size 5½x5½ when closed. Furnished in set. 2 set in crate ... Set, $11.85

MOSSBERG WRENCH SETS

Open End Wrench Set—Hardened steel S wrenches of 16 inch, assorted sizes, offset and parallel, in set in a roll.
4K3955—1 set in roll. Set 95c

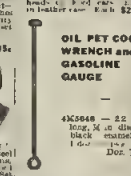


Offset Wrench Set—set of 4 solid bar with crowned steel socket ends and thumb nuts, bright finish, packed in cases. In leatherette bag. Set.
4K3955—1 set in box. Set $2.25

LANE'S UNIQUE RATCHET WRENCH

4K4885—Made throughout of sockets turned from Hammered steel, case hardened and vermetted, and to take any size nut, one piece. The screw driver is reversible for both right and left hand use. Has 6 sockets in all and one handle. Packed each in leather case. Each $2.25

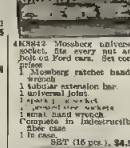
OIL PET COCK WRENCH and GASOLINE GAUGE



4K3648—22 in. long, 16 oz. drop forged, nickel plated, black enamel handle. Dozen ... Doz. 78c

MOSSBERG SOCKET WRENCH SETS

4K3942—Mossberg universal socket, fits every nut and bolt on Ford cars. Set comprises:
1 Mossberg ratchet handle wrench
1 tubular extension bar
1 universal joint
1 spark plug socket
1 speed screw driver
1 monel metal wrench
Complete in indestructible fibre case
1 in case.
SET (16 pcs.), $4.50



4K3943—Mossberg universal socket, fits every nut and bolt on Ford cars. Set comprises:
1 Mossberg ratchet handle wrench
1 extension bar,
1 universal joint,
1 spark driver bit,
1 6-in. adjustable wrench
12 pressed steel sockets.
Complete in wood box, 1 set in case. SET (19 pcs.) ... $6.75

BLACK ENAMELED STEEL TOOL BOX

4K3944—Made of heavy sheet steel, well braced, japanned in rich black enamel, electrically welded seams and hinges, top stamped and edges rolled giving added strength, strong lock. 2 nickel trimmings. 1 in carton ... Each $1.45

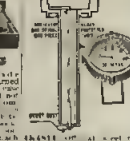
BEARDSLEY "NEVER SLIP" VALVE LIFTER

4K3945—Made of best quality steel on a money back guarantee if not satisfactory, stamped steel can't pinch fingers, allows free use of both hands, permits grinding valves in position. Each, 67c

ADJUSTABLE WHEEL PULLER

4K4884—Black enameled malleable iron, quickly arranged to any 4 bolt wheel by simply turning thread. 1 in box. Each 40c

FILLER CAP GASOLINE GAUGE



4K4818—Of all steel tube and brass, 16 in. high, bright finish, with graduated dial and indicator, 1 in box. Each, 70c

CRANK CASE OIL GAUGE

4K4871—Glass sight oil feed polished brass set cock on top, 1 other opening at side for connecting to crank case. 1 in box. Each 55c

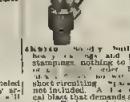
"APCO" METAL OIL GAUGE

4K4870—Can be used in place of any other oil gauge. Simply unscrew the old one and screw this one in its place. 1 in box. Each 65c

SAFETY WARNING WHISTLE

4K3949—Solidly built of brass, no cast metal stampings, nothing to break or get out of order, heavy duty, positive in action, will not clog or freeze, will not tarnish. A 1 in. metal black finish demands attention. Each complete in box. Each 84c

JERICHO FOG HORN



4K3971—For Ford and Metz cars equipped with battery ignition. Can be used on any car having 6 volt battery. Complete with all wires cut out, attaches between engine and muffler complete with pedal clamps, cable and directions. Each $3.95

HUB CAP

4K3377—Heavy solid brass, nickel plated. Fits all Ford cars. Each 18c

"LONG LIFE" BALL-BEARING ASSEMBLY For Front Wheels

4K5818—For model 490 similar to regular bearing but in one unit complete ball race to come eliminates loose balls, dust, grit, etc. Easily installed. 2 outer and 2 inner bearings. Set of 4 in box. SET (4 pcs.) $2.95

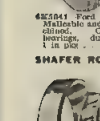
COMPLETE BALL-BEARING ASSEMBLY for FRONT WHEELS

4K4131—Standard set, 2 inside and 2 outside retainers, 4 ball bearings. Set of 4 in a set. SET $1.12

FRONT HUB AND BEARING ASSEMBLY

4K5941—Ford No. 3908C. Malleable and carefully machined. Complete with bearings, cups and cone. 1 in pkg. ... Each, $1.45

SHAFER ROLLER BEARING

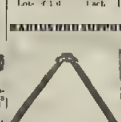


4K3531—For Ford car or Chevrolet, No. 490 front wheels eliminate friction, prevent loss of oil, protect from destructive wear caused by present ball assemblies, prevent rattling and wobbling and make steering easier. 4 bearings in wheel with all cartons complete. Set, $7.50

"KETCH-A-KICK"

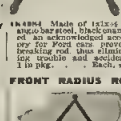
4K3324—Fits all models ratchet brace. Kick of the ratchet prevents brace from slipping. 1 in box. Each $1.00
Less Field ... Each 50c

RADIUS ROD SUPPORT



4K4894—Made of 1x1x⅛ in. angle bar steel, black enamel, an acknowledged accessory for Ford cars, prevents breaking rod, thus eliminating trouble and accidents. 1 in pkg. ... Each, 85c

FRONT RADIUS ROD

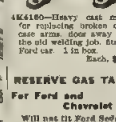


4K5917—Made of 1x1x⅛ in. bull rolled steel. Forging for front ends are cold rolled steel bent to shape and finished. Furnished in ¾ round stock, rear end swaged to ¾ round. All holes are bushed. Diameter of ball end ¾ in. Each $1.70

HUDSON CRANK CASE REPAIR ARM

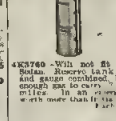
4K6180—Heavy cast metal, for replacing broken crank case arms, done away with the old welding job. Fits any Ford car. 1 in box. Each, $1.10

RESERVE GAS TANK
For Ford and Chevrolet 490
Will not fit Ford Sedan



4K3760—Will not fit Ford Sedan. Reserve tank, cap and gauge combined, holds enough gas to carry 75 miles. In an emergency worth more than its cost. Each 95c

RADIATOR HOSE



4K3721—Inlet Hose, size 1¾x2¾. In ... Each, 35c
4K3722—Outlet Hose, size 1¾x2¾. In ... Each 12c

Pure quality tube, friction and cover with the to be built to withstand the action of hot water and oil. Fits all models.

1 PC. RADIUS ROD SUPPORT

4K5668—1x1x⅛ in. angle steel, extra clamp holds auxiliary closely into crotch of the radius rod, will last the life of the car and give added strength ... Each 60c

MOSSBERG TRIPLE END WRENCH

4K3846—For cylinder head screws and rear axle housing bolts and nuts. 1 in pkg. ... Each, 65c

MOSSBERG CONNECTING ROD WRENCH

4K3849—Offset construction makes it easy to fit to a rod reasonably difficult to reach. 1 in pkg. ... Each, 35c

DROP FORGED WRENCH SET

4K3866—Consists of 6 drop forged case hardened wrenches, all milled both ends, straight bar angle and 1 pin wrench with offset bar for reverse gear and brake adjustments, fit every nut on Ford car. Set of 6 in roll ... Set $2.25

PEERLESS RADIATOR CAP

4K3945—Heavy nickel metal each tissue wrapped in carton. Each, 14c

KLAXON MOTOR DRIVEN AUTO HORN

4K4190—Mfrs. No. 6. Motor driven for Fords with self starter provides a real warning signal. Regular Klaxon ... Each $3.00

FOR FORD CARS

Thousand of Fords and other small cars are in need of these accessories daily which naturally creates a demand that can be easily fulfilled by the dealer who has the goods at the right prices. Our unlimited resources in buying accessories for Ford cars enable us to have the most called for items, priced to help you to meet all competition. A representative stock from BUTLER BROTHERS will more than prove satisfactory to you.

"PEERLESS" RADIATORS

For 1916 and Earlier Models | For 1917 and Later Models

4K4907 | 4K4908

Same design as regularly furnished by the Ford Motor Co. Honeycomb core practically indestructible and very strong and efficient, large water capacity, cooling surface 25% more than type of core now used. Guaranteed to keep engine cool under the most severe conditions. Cooling will not burn it, particularly efficient in Ford cars when converted into a Truck Unit or Tractor

Black Enamel Trim

4K4907—1916 and earlier models. Each, $18.50. Lots of 6, 16.00

4K4908—Fits 1917 and 1918 models and Ford trucks. Each, $19.50. Lots of 6, 18.00

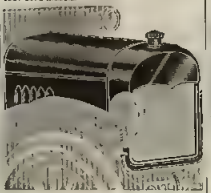
Nickel Trim

4K5697—1917 and later models otherwise same as 4K4908. Each, $21.00

"BULL DOG" RADIATOR SHELL AND HOOD

For 1915 and 1916 Model Ford Cars only

NOTE—We can supply Shell and Hood for 1909 to 1914 models, with a delay of 10 days after receiving order. Also special shells for 1917-1918 models.



4K4911

4K4911 Rad. Dog type heavy grade die slips over radiator, completely covering entire front except radiating surface, front of hood side on shell, nine rods on dash, giving graceful stream line effect, desired by every car owner. Shell has pointed style front, 4 piece hood with waterproof hinges at side and top, 2 coats black baked enamel matches color of car. 1 set in crate

Set $12.50

"LIVINGSTON" BULL DOG RADIATOR AND STREAMLINE HOOD

Genuine Honeycomb radiator guaranteed to prevent overheating and loss of power, cools perfectly lengthens life of motor water cap. 3½ gals., black enamel steel shell, and streamline, ventilated hood, design construction under efficiency unequaled. 1 in case, 95 lbs.

4K3803—For 1915-16 models | Each $33.50

4K4904 For 1917-18-19 models

RADIATOR HOOD, SHELL AND SHIELD OUTFIT

4K3329 Screen type hood front shield covers front opening radiator with indestructible wire efficient in use as will not burst in cold weather. Black enamel hood and shield in corrugated carton.

Outfit complete $27.00

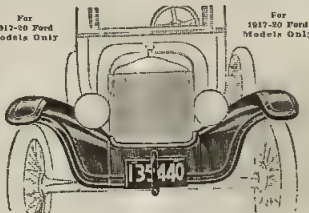
BLACK ENAMELED STREAMLINE HOOD

4K3307—Fits 1917 and later models. best workmanship and material richly black enameled, hard rubber finish, highly polished, in crate

Each, $4.95

"MOSCO" BLACK ENAMELED STEEL FRONT APRON

For 1912-20 Ford Models Only | For 1917-20 Ford Models Only



4K9800—Heavy steel, reinforced at corners, 2 coats baked enamel, complete with bolts, nuts and lock washers, instructions for attaching, improves appearance of car, prevents splashing of mud guards. Retails at $6.50.

Each $4.30

(Total $10.50) 5 in crate Each, 3.90

COMMERCIAL FENDERS

When a Ford car is converted into a commercial car, a pair of these fenders is necessary as the fenders which are furnished with the Ford chassis will not allow body to be set on

4K4906 | 4K3383

Heavy gauge steel, two coats, lustrous black enamel, baked on. Matches front fenders of the Ford car. Easily attached. 2 in set. 1 set in crate

4K4906 Crown type for regular Ford chassis..... Set, $5.50

4K3383—Especially adapted to fit the new Ford truck being manufactured by the Ford Motor Co. .. Set, $5.50

4K3884—Adapted for all truck units . " 5.50

"CROWN" FENDERS

Be sure to specify year and model of car

Front Only—In set

4K3326—For 1916 and earlier models. .. .. 1 Set, $10.50

4K3326—Fits 1917 and later models. .. .. " "

Rear Only—2 in set.

4K312 Fits all models Set, 37.45

Complete Set—20 gauge steel, finished with two coats lustrous black enamel baked on, adds class to the Ford car, easily attached 1 set of 4 in crate.

4K4906—Fits 1909 to 1916 models. .. .. Set, $14.50

4K3383—Fits 1917 and 1918 models.

GUARANTEED SPRINGS

4K4917 | 4K4918 | 4K4919

4K4917 "Titanic" Guaranteed front axle spring has exclusive bolt or center rib to prevent spring arch, wedge rib and wedge shaped plate takes place of rivet and rib strengthens instead of weakens spring . . Each $4.00

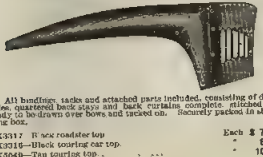
4K4918 **Guaranteed rear spring**, high grade special analyses spring steel with spring steel clip, painted black enamel to protect against rust, workmanship and material

Each $7.00

4K4919 Guaranteed front spring, 7 leaf. Each $1.85

Lots of 10 or more Each $1.75

TOP RECOVERS



All bindings, tacks and attached parts included, consisting of deck sides, quartered back steps and back curtains complete, stitched up ready to be drawn over bows and tacked on. Securely packed in shipping box.

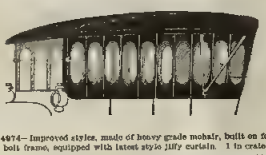
4K3317 Black roadster top Each $ 7.50

4K3315 Black touring car top. " 9.75

4K5040—Two tourist top . . . . " 10.85

4K5041 Black motor cloth touring top . " 11.85

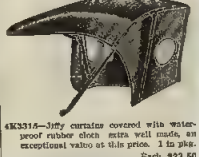
STORMPROOF ONE-MAN TOP



4K4974—Improved styles, made of heavy grade mohair, built on four bolt frame, equipped with latest style jiffy curtain. 1 in crate.

Each, $29.00

ROADSTER ONE-MAN TOP



4K3315—Jiffy curtains covered with waterproof rubber cloth extra well made, an exceptional value at this price. 1 in pkg.

Each $23 50

FOR FORD CARS

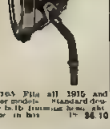
HEADLIGHT ASSEMBLY

4K4587—For models prior to 1919. 6 in black enameled lamp distance between pegs, 7 in., bright polished parabolic reflectors, double rell 3 pc. doors, 15 c. p. 9 volt Mazda bulb, double contact type, complete assembly including all necessary parts for installing. Pr. 1 in box and 1 gram w. bulb assembly ready ..... Set $4.95

ELECTRIC HEADLIGHT

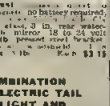
4K4641 For 1915 and later models to take special headlight bulb, 6 in. black enameled shell, 7 in. bright nickeled reflector, 15 c. p. 9 volt Mazda bulb, furnished with double wiring only. 1 pr. in box ..... Pr. $4.15

DOUBLE BULB ELECTRIC HEADLIGHT



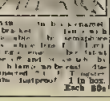
4K4645 Fits all 1915 and later models. Standard dimensions. 1 pr. in box ..... Pr. $6.10

MAGNETO SPOTLIGHT



4K4651 ..... magneto, no battery required, ... 3 in., ... reflector, 18 candle power bright bulb. Fits ..... Each $3.15

COMBINATION ELECTRIC TAIL LIGHT AND LICENSE HOLDER



4K4319 ..... in black enamel finish ..... with ..... Complete with ..... 1 in box. Each 89c

TAIL LAMP ASSEMBLY

4K3239—Tail lamp switch with resistance coil mounted inside, 12 ft. cable. When car is stopped the lamp takes current from magneto when engine is running. Each $1.35

ELECTRIC TAIL LAMP

4K3336—Suitable for 1915 and later models, dimensions 3 in. black enameled, 3 in. nickeled to accommodate ruby glass, this type only used on closed cars, can be easily disconnected. Lamp is fitted with a special bulb ..... for the late model ..... Pr. ..... with ..... lens for illuminating ..... number. 1 in box. Each, 65c

HEADLIGHT REFLECTOR

4K4686—Drawn parabola shape, highly polished and silver plated. 1 pr. in box. Pr. $1.85

HEADLIGHT PARTS

Headlight, Door and Glass—For 1915 and later models, ... black enameled headlight ..... 1 in box.

4K3362—1 in box. Each 55c.

Door Only—For 1915 and later models, 9 in. black enameled.

4K3687—1 in box. Each, 42c

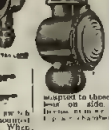
Oil Feunt with Burner ..... Complete for oil and ..... fairings. Black enameled.

4K3343—1 in box. Each, 60c

"YANKEE" 1 PC. OIL TAIL LAMP

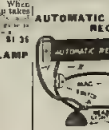
4K7958 For ..... body ..... rear ..... from 1 pc brass guaranteed not to blow out, neatly filled in enamel, back ..... red and white ..... Each $2.15

OIL TAIL LAMP



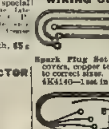
4K4641 For ..... round style all black enamel 1 pc. ..... body, all parts ..... no solder used special bulb ..... fastener ..... mounted to three cars crystal lens on side. ..... Each $1.65

AUTOMATIC LIGHT REGULATOR



4K3705—On city attached to any model Ford car, gives brilliant lights at lowest engine speed, prevents lights from burning out when the engine runs above Ford magneto and same system of wiring, automatic in operation. 1 in box, with diagram ..... Each $9.95

WIRING OUTFITS



Spark Plug Set.—Braided cotton, copper terminals, cut to correct size.

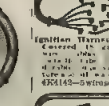
4K5410—1 set in pkg. Set, 25c

Ignition Harness, Braid Covered—18 gauge copper wire, rubber insulated braid ..... terminals and different ..... 1 set in pkg.

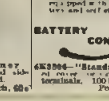
4K6154—4 wire set. Set, 47c

4K6165—5 wire set. Sch wire for electric light. Set 55c

4K6154 4 wire set. Set 55c



Ignition Harness, 4K6470. Covered ..... terminals ..... 4 wire set complete ..... 4K6162—5 wires. Set, 55c



Ignition Harness, Loom Covered—18 gauge copper wire, rubber insulated, heavy loom, proof against moisture & oil, will not short circuit

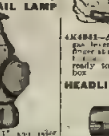
4K6147 ..... wire set 50c.

4K6148 ..... wire set. Each ..... equipped with ..... and ..... starter wire. Set, 65c

BATTERY CONNECTOR

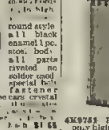
4K3306—"Standard." braided ..... terminals. 100 in pkg ..... Per 100, $1.75

"APCO" HORN BUTTON



4K4845—Attached to spark or gas lever in under driver's ..... 3 small ..... consists of ..... bracket ..... ready to attach ..... box ..... Set, 57c

HEADLIGHT INTENSIFIER

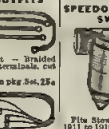


4K4186 ..... socket is an appliance that will increase the light of your Ford headlights 100%. Simple in construction and fully guaranteed. 1 in carton. Each 50c

DASH COIL UNIT

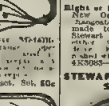
4K9765 In this Kingston coil only light grade materials are used and are guaranteed ..... Each $1.95

SPEEDOMETER SHAFTS



4K7990 ..... for 1915 and ..... speedometer ..... Stewart speedometers. 1 in box. Each $1.50

SPEEDOMETER SWIVEL JOINTS



Fits Stewart speedometers, 1911 to 1918 models. 1 in box.

Right Hand Drive

4K5650—2 in 1 box. Each $1.50

Left Hand Drive

4K5651—2 in 1 box. Each $1.50

Right or Left Hand Drive

New Ogden type. Interchangeable ..... can be made to fit any model Stewart speedometer. For either ..... hand drive ..... position ..... 1 in box. Ea. $1.80

STEWART SPEEDOMETER

4K5345 — Stewart "Model 1915" Magneto type 3 in. dial, ... to 60 miles, ... speed dial ..... trip ..... registers ..... 1/10 mile ..... trip ..... reset to zero ..... 1/10 mile ..... 9 miles ..... Complete with equipment ..... 1 in case. Each, $8.00

Lots of 10 to 50. ..... 7.90

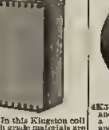
GOODRICH SWITCH WITH YALE LOCK

Absolutely ..... against theft. Fits over ..... coil and takes place ..... switch, when locked ..... screws which attach it. Every Ford owner needs one.

4K7921 ..... switch ..... when locked, key turns switch on and off ..... attached ..... 1 in box ..... Each $2.35

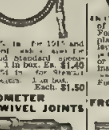
Lots of 1 doz. with counter display card ..... Doz. $27.00

K. W. AUTOLOCK



4K3643 Approved by Insurance Underwriters, who allow a 15% reduction on fire insurance. Locks automatically and simultaneously with ..... Each $2.75

"GOODRICH" COIL BOX LOCK

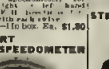


4K7740—Approved by Board of Underwriters. Fits any Ford with metal coil box, replaces old top, locks operates levers which lock ..... top removed until key is inserted and turned. The ..... Each $6.00

Ford cars. 1 in box

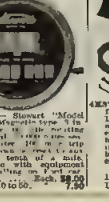
FRONT LICENSE BRACKETS

4K3586—Black enamel finish, ... inside the front number ..... rigidly, fastens under front ..... spring clip nuts, 3 pcs heavy metal stampings. 1 set in ..... Set, 12c



4K5693—Offset type, high grade enamel finish made of ..... half hard spring wire with ..... tension ..... covered with ..... pure white rubber tubing, ... and attractive. Easily ..... by removing ..... Each 19c

STEWART SPEEDOMETER WITH COWL BOARD



4K3730—Stewart "Model 150-B" ..... Magnetic type 3 in. dial face, 60 mile rotating speed dial, 10,000 miles ..... register, 100 mile trip register can be reset to any mile or ..... Complete with ..... Ford ..... with ..... cable ..... brackets ..... 1 in case. Each $8.75

Lots of 10 to 50 ..... 8.25

Lots of 50 or more 8.00

VENTILATING WINDSHIELD

4K4699 Fits 1915 to 1920 models. Includes ..... fully finished in black enamel and nickel plate. Transforms the glass of the old Ford windshield into an ..... type, rain vision and ventilating. Easily installed. Each in strong ..... carton. ..... Each $7.50

"VANGUARD" ADJUSTABLE WINDSHIELD

4K4594 With ..... model ..... Ford ..... Each $2.35

WINDSHIELD ATTACHMENT

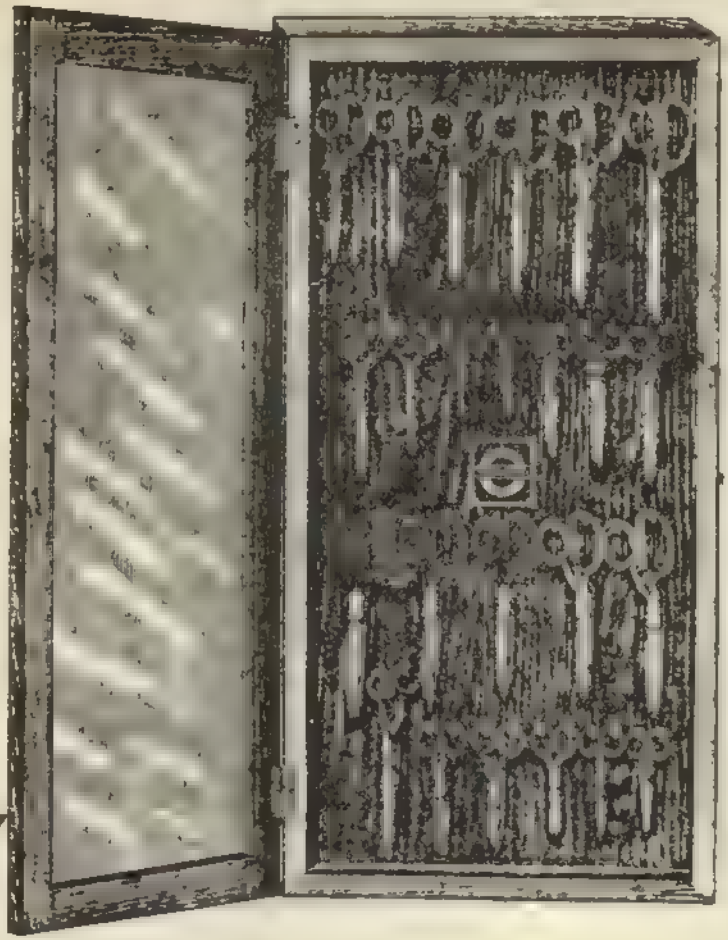
4K4591—For converting windshields ..... fitted with 1915-1916-1917-1918 ..... Ford cars. ..... Each $2.95

WINDSHIELD CONVERTING HINGE

Makes regular Ford windshield ventilating and provides rain vision.

4K4468 — Black enameled stamped steel extension swivel hinges, adjustable to any position forward, backward or ..... with direct use. Pr. $1.10

WALL CASE ASSORTMENT



A WELL PROPORTIONED EXCEPTIONALLY ATTRACTIVE CASE

HEINISCH SHEARS AND SCISSORS

An Especially Good Assortment [illegible] Shears and Scissors [illegible] Permanent Display Feature Well Suited to Every Call for Their Goods [illegible] any Store in the District Feature Line

¼ DOZEN EACH OF THE FOLLOWING

No. 212	7 Inch Bent Trimmers
No. 212	8 Inch Bent Trimmers
No. 311	7 Inch Straight Trimmers
No. 311	7½ Inch Straight Trimmers
No. 311	8 Inch Straight Trimmers
No. 312	6 Inch Straight Trimmers
No. 312	6½ Inch Straight Trimmers
No. 312	7 Inch Straight Trimmers
No. 312	7½ Inch Straight Trimmers
No. 312	8 Inch Straight Trimmers
No. 312	8½ Inch Straight Trimmers
No. 412	8 Inch Straight Shears
No. 512	5 Inch Embroidery Scissors
No. 512	5½ Inch Embroidery Scissors
No. 722	3½ Inch Embroidery Scissors
No. 512	6 Inch Embroidery Scissors
No. 722	4 Inch Embroidery Scissors
No. 522	5 Inch Embroidery Scissors
No. 522	6 Inch Embroidery Scissors
No. 922	3½ Inch Manicure Scissors
No. 912	3½ Inch Nail Scissors
No. 742	4½ Inch Button Hole Scissors
No. 622	5 Inch Pocket Scissors
No. 632	4 Inch Pocket Scissors

Display Assortment with Show Case.

17 inches wide, 33 inches high, 3 inches deep

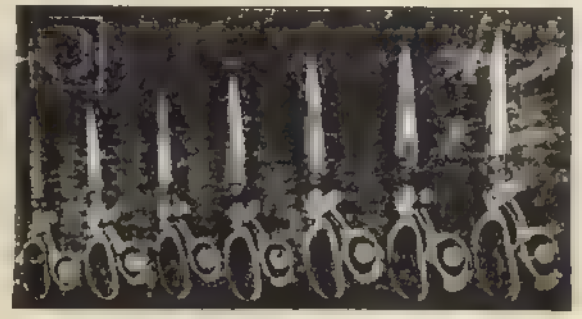
Per Assortment With Case

No. 3500—..... **$151.50**

One assortment and case packed ready for Shipment

DISPLAY PANELS

HEINISCH SHEARS



Per Case

No. 202 Nickeled Bent Trimmers No. 212 [illegible] One Each of Sizes 6, 6½, 7, 7½, 8, 8½ and 9 Inches **$47.45**

Per Pair

No. 302 Nickeled Straight Trimmers No. 312 One Each of Sizes 6, 6½, 7, 7½, 8, 8½ and 9 Inches **$16.15**

One panel in a box

HEINISCH SHEARS

STRAIGHT TRIMMERS

No. 311—Japanned Handles. Nickel Plated Blades

Inches	5½	6	6½	7	7½	8	8½	9	10	11	12
Length of Cut	2¼	2¼	3	3¼	3¼	3¾	4	4¼	5	5¼	6
Per Dozen	$18.00	19.20	20.40	21.60	22.80	24.00	25.20	30.00	37.00	42.00	45.40

Half dozen pair in a box

STRAIGHT TRIMMERS

No. 312 –Full Nickel Plated

Inches	6	6½	7	7½	8	8½	9	10
Length of Cut	2¼	3	3¼	3¾	3¾	4	4¼	5
Per Dozen	$22.40	24.20	25.80	27.00	28.40	30.00	35.60	44.00

Half dozen pair in a box

STRAIGHT TRIMMERS. LEFT HAND

No. 321—Japanned Handles.

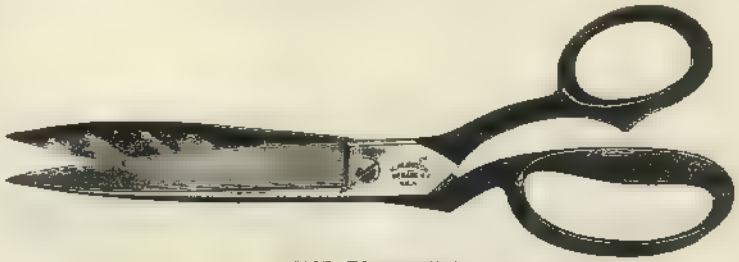
Inches	8	8½
Length of Cut	3¼	3¾
Per Dozen	$29.80	31.00

Half dozen pairs in a box

No. 322—Full Nickel Plated

Inches	7	8	8½
Length of Cut	3¼	3¾	3¾
Per Dozen	$32.60	35.80	37.00

Half dozen pairs in a box.



BENT TRIMMERS

No. 211—Japanned Handles. Nickel Plated Blades

Inches	6	6½	7	7½	8	8½	9	10	11	12	13
Length of Cut	2¾	3	3¼	3¾	3¾	3¾	4¾	5	5¼	6	6¾
Per Dozen	$28.40	31.60	22.80	24.00	25.20	28.60	33.60	40.40	44.40	48.00	52.00

Half dozen pairs in a box

BENT TRIMMERS—RIGHT HAND

No. 212—Full Nickel Plated.

Inches	6	6½	7	7½	8	8½	9	10
Length of Cut	2¾	3	3¼	3¾	3¾	3¾	4¼	5
Per Dozen	$24.40	24.60	27.00	28.50	30.00	34.00	40.00	48.40

Half dozen pairs in a box.

HENKEL SCISSORS

American Make Solid Steel. Full Nickel-plated

MANICURE

3½-In. Curved Blade. Fine Points

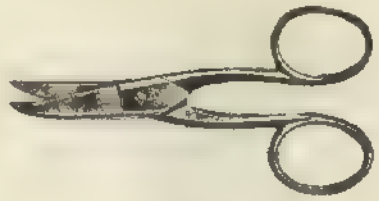
	Per Dozen
No. 4003	**$17.50**

One dozen in a box.

POCKET

No. 4350—Size, Ins.	3½	4	4½	5
Per Doz.	**$14.50**	**15.00**	**15.50**	**16.00**

Half dozen in a box.



NAIL

3½-In. Curved Blade.

	Per Dozen
No. 4023	**$15.00**

One dozen in a box.

LADIES'

Flat Pattern.

No. 4156—Size, Ins.	4	4½	5	5½	6
Per Doz.	**$14.00**	**14.50**	**15.00**	**16.00**	**17.50**

Half dozen in a box.

EMBROIDERY

No. 4057—Size, Ins.	3½	4	4½
Per Doz.	**$13.50**	**14.50**	**15.00**

Half dozen in a box.

We Especially Solicit and Pay Particular Attention to Mail Orders

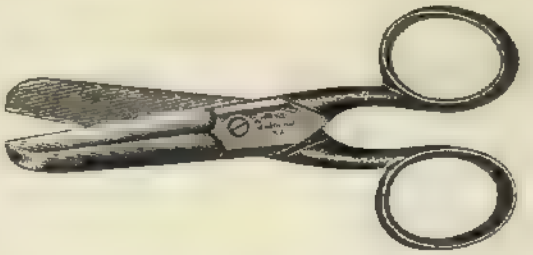
HEINISCH SCISSORS

LADIES'

No. 722—Solid Steel. Full Nickel Plated. Double Points.

Inches	3	3½	4	4½	5	5½	6
Per Dozen	$18.48	19.20	20.00	20.80	21.60	22.40	24.20

Half dozen pairs in a box.

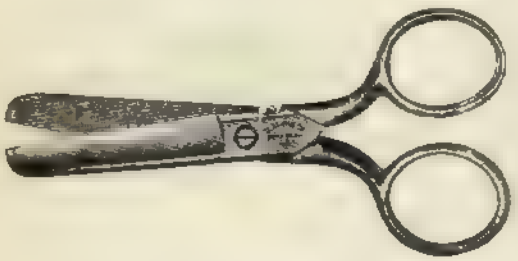


POCKET

No. 622—Swedged Pattern. Solid Steel. Full Nickel Plated

Inches	4	4½	5
Per Dozen	$21.20	22.00	23.80

Half dozen pairs in a box.



POCKET

No. 612—Solid Steel. Full Nickel Plated

Inches	4	4½	5
Per Dozen	$20.00	20.80	21.60

Half dozen pairs in a box.

POCKET

No. 632—Solid Steel. Full Nickel Plated.

Inches	3	3½	4
Per Dozen	$19.20	20.00	28.80

Half dozen pairs in a box

If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

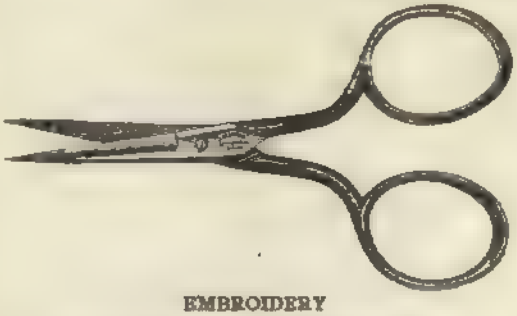
HEINISCH TAILORS' POINTS

No. 711—Japanned Handles. Nickel Plated Blades.

Inches	5	5½	6
Length of Cut	2	2¼	2½
Per Dozen	$17.60	18.40	19.20

One pair in a box

HEINISCH SCISSORS

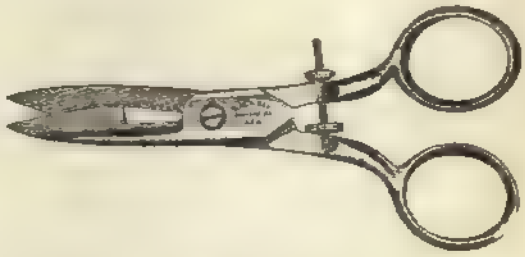


EMBROIDERY

No. 732—Solid Steel Full Nickel Plated

Inches	3	3½	4
Per Dozen	$20.00	20.80	21.60

Half dozen pairs in a box

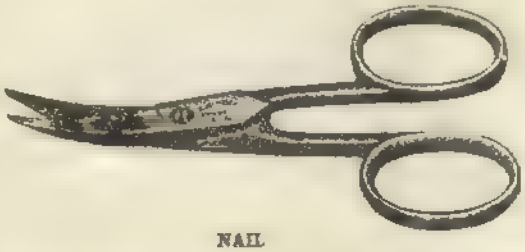


BUTTON HOLE

No. 742—With Set Screw and Lock Nut Full Nickel Plated

Inches	4¾	5¼
Per Dozen	$25.60	27.00

Half dozen pairs in a box



NAIL

No. 912—Curved Blades. Solid Steel Full Nickel Plated

Inches	3	3½	4
Per Dozen	$25.60	28.40	30.00

Half dozen pairs in a box

LADIES'

No. 612—Full Nickel Plated Flat Pattern

Inches	4½	5	5½	6
Per Dozen	$20.00	20.80	21.60	22.40

Half dozen pairs in a box.

LADIES'

No. 822—Solid Steel Full Nickel Plated Flat Pattern

Inches	4	4½	5	5½	6
Per Dozen	$21.20	22.00	22.80	24.00	25.60

Half dozen pairs in a box.

HEINISCH SHEARS

BENT TRIMMERS

No. 231—Heavy Pattern. Raised Nickel Plated Blades. Japanned Handles.

Inches	10	11	12
Length of Cut, Ins.	5	5½	6
Per Dozen	$46.60	50.00	53.60

BARBER SHEARS

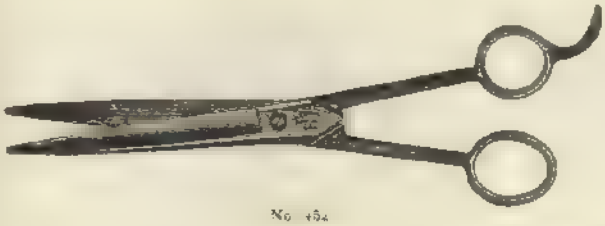
No. 411—Japanned Handles. Nickel Plated Blades

Inches	7	7½	8	8½	9
Length of Cut, Ins.	3	3¼	3½	3¾	4¼
Per Dozen	$21.60	22.80	24.40	26.20	30.00

No. 412—Full Nickel Plated.

Inches	7	7½	8	8½	9½
Length of Cut, Ins.	3	3¼	3½	3¾	4½
Per Dozen	$25.60	27.00	28.40	30.00	35.60

Nos. 411, 412



No. 452

No. 452—French Pattern. Solid Steel. Nickeled Handles Polished Blades.

Inches	7	7½	8
Length of Cut, Ins.	2¾	3¼	3¾
Per Dozen	$32.00	54.00	37.60

OFFICE SHEARS

No. 811—Japanned Handles. Nickel Plated Blades.

Inches	8	9	10
Length of Cut, Ins.	4½	5	6¼
Per Dozen	$24.40	30.00	37.00

No. 812—Full Nickel Plated.

	Per Dozen
Size, 9 Ins. Length of Cut, 5 Ins.	$35 00

Nos. 811 812

BANKER OR PAPERHANGHER SHEARS

Nos. 841, 842

No. 841—Trimmer Handles. Japanned Handles. Nickel Plated Blades.

Inches	12	14	16
Lgth of Cut, Ins	7	8¼	10
Per Dozen	$45.20	57.20	74.00

No. 842—Trimmer Handles. Full Nickel Plated.

	Per Dozen
Size, 12 Ins. Lgth. of Cut, 7 Ins.	$54.00

Half dozen pairs in a box.

HEINISCH SHEARS

TAILORS'

Japanned Handles. Straight Blade. Fitted with Plain Screw and Nut

Nos.	00	0
Inches	10½	11½
Length of Cut	5	5½
Per Pair	$5.00	6.00

One pair in a box

Raised Blade. Japanned Handles. Fitted with Plain Screw and Nut

No.	2½
Inches	12¼
Length of Cut	6
Per Pair	$5.10

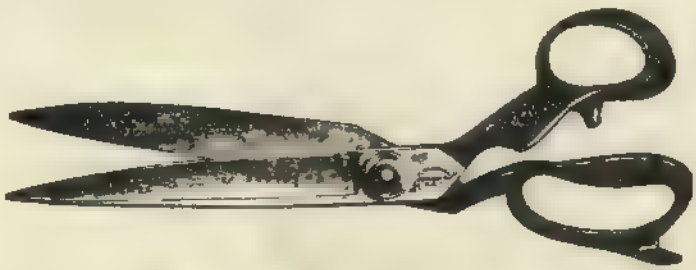
One pair in a box.

CUSTOM CUTTER

Long Blades Japanned Handles

No.	2
Inches	15¼
Length of Cut	8
Per Pair	$23.00

One pair in a box



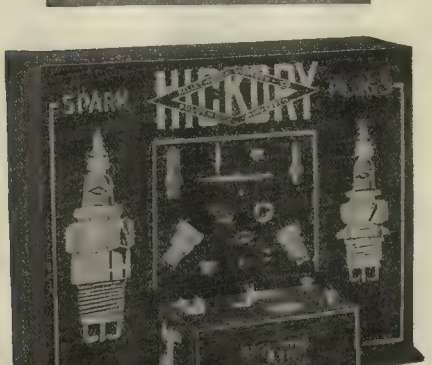
Japanned Handles. Brass Bolt and Nut.

Nos.	3	3½	4	4½	5	6	7	8	9	10	11	12
Inches	13	13¼	13¾	13	13	13¾	14	14¼	14¾	15¼	15¾	16¼
Length of Cut	6	6¼	6½	6¾	6¾	6¾	6¾	7¼	7¼	7½	8	8½
Per Pair	29.00	10.00	13.50	15.00	20.00	23.00	26.50	28.00	30.00	33.00	36.00	38.00

One Pair in a box

5068 *Kelley-How-Thomson Co. of Duluth*

SPARK PLUGS



HICKORY SPARK PLUG ASSORTMENTS

A Mahogany Case or Cabinet, with Large, Beautifully Finished Demonstrating Coil for Plugs, Lamps, Horns and other Electric Equipment; a Large Wall Poster Showing Spark Plug Sizes, a Counter Sign for General Display and Consumer Descriptive Circulars, are the chief elements The Case itself would be an ornament in a Tiffany window, and it shows in actual color the parts, construction and assembly of the HICKORY line of Plugs.

We shall be pleased to give you details as to how you may obtain this advertising, coupled with the co-operation and assistance we expect to place at your disposal.

These Plugs are Offered in Two Models—the Giant or Heavy Duty, and the Junior or Standard Type. Either of these models will be furnished in any and all sizes, whether standard or special. The assortments we are offering this year will take care of the requirements of practically any and all types of gasoline motors, yet there are included in the assortment no sizes which will be slow moving or will lie indefinitely on the shelves of the dealer.

The HICKORY Special Blue Stone Insulator has become an added Identifying Mark of the Highest Quality and Serviceability, and the HICKORY Plug is recognised as the Leader in the Northwest field.

We should be glad to send you full descriptive literature, giving the Details of Construction and Special Features, if you will write us.

	Per Assortment
No. 1—Consisting of **120 Junior Plugs** and Counter Display Cabinet	$96 00
No. 2—Consisting of **75 Giant Plugs** and Counter Display Cabinet	90 00
No. 3—Consisting of **75 Junior and 30 Giant Plugs** and Counter Display Cabinet	96.00

Kelley-How-Thomson Co. of Duluth

SPARK PLUGS

In the Hickory Line of Spark Plugs we are offering a Special Design and features which render it the greatest value on the market today. We have chosen this type to carry our Hickory Trade Mark because it embodies the Uniform Quality and High Efficiency which must characterize all merchandise featured under this Trademark.

These Plugs are oversize in every part, with Reinforced Electrode to provide against warping and distortion under heat, Loose-Assembled into the Porcelain against Soft Copper and Highly Tempered Verona Spring Washers, Every Metal Part is turned from Bar; Electrodes, both Center and Ground, are Staked, not Welded, while each Plug is subjected to rigid final inspection and test before passing to our packing and shipping departments.

⅝ IN. S. A. E.

This Particular Model is Built in Accordance with Specifications Laid Down by the Society of Automobile Engineers and is the size which is standard in the majority of American Built Cars.

Each

No. 1—⅝ **in. S. A. E.**.....$1 00

⅝ In. EXTENSION

This Model carries and Extension Below the Thread to Allow Deeper Penetration into the Firing Chamber. It is Designed Specially for such Cars as the Buick, Dodge, Interstate and others.

Each

No. 2—⅝ **In. Extension**....$1.00

½ IN. STANDARD

Adapted for Stationary Farm Gasoline Engines and all Cars Requiring Regular ½ in., such as E. M. F. 30, Regal, Studebaker, etc.

Each

No. 3—½ **In. Standard** $1.00

FORD SPECIAL

The Ford Motor is usually subjected to Extremes of Service not encountered in the larger car Maximum efficiency is essential from the Spark Plug as from every working part. In this model we are offering a design superior to any Ford Plug on the market. Interchangeable in other cars with ½ in. Standard

Each

No. 4—Ford Special.....$1 00

THE BEST KNOWN
HARDWARE MARK
IN THE NORTHWEST

HICKORY GIANT

The "Hickory Giant" is made for service and in appearance, design and general construction excels all others in the spark plug field.

Every part of the "Hickory Giant" is oversize and the highest grade materials enter into its construction throughout. The porcelains are of highly glazed specially selected and blended clays, and offer the greatest possible degree of resistance to heat, oil and vibration. Other items of superiority are cold rolled steel shell, loose-assembled center stem and double contact spark points.

Each

No. 11—⅝ in.; Required for such cars as the Ford, Studebaker, Overland and engines requiring Regular ⅝ in. size. The heavy duty type is especially adaptable where excessive lead and oil are encountered ..$1 50

No. 22—⅞ in. S. A. E.; Especially recommended for all high powered motors using this type of threa 1 50

No. 33—½ in. Tractor Special; Especially designed for use in high powered Tractor Motors where extreme heat, oil and vibration are encountered and in extreme oversize 1 50

No. 44 ⅞ **in. S. A. E. Extension**; This Model is generally known as the Buick type plug. The Giant types always recommended for high speed and high powered motors. 1 50

All Hickory Spark Plugs are put up One in a Handsome Lithographed Carton; Average Weight About 6 Oz. Each

HICKORY SPARK PLUG PORCELAINS

Hickory Porcelains are not Moulded, but are Turned from Special Kaolin of Foreign Blend, insuring against even slight variation of clay body or form. In addition, these cores carry an Extra Heavy Glaze of Hickory Blue which serves the double purpose of reinforcing the core and sealing against oil seepage.

Each

Hickory Regular Porcelains will fit ⅝ S. A. E. and ½ in. Standard.. .. .. . $0 50

Hickory Extension Porcelain will fit ⅝ in. Extension and Ford Special 50

Hickory Giant Porcelains.. .. .. .

SPARK PLUGS

CHAMPION

Champion Spark Plugs are Standard Factory Equipment on four out of every five Automobiles, Tractors and Stationary Gas Engines made in America. Fourteen Separate and Distinct Inspections must be passed before a single Spark Plug leaves the factory. Every Part is machined and Gauged with Extreme Care, and the Assembling is Thorough.

CHAMPION "STUDEBAKER"

For Studebaker Cars made previous to 1920 models, and Truck, Tractor Farm and Stationary Engines.

	Each
No. A13—⅝ inch	$0.90

CHAMPION "LONG"

For Reo Cars

Recommended for the Reo car and other automobiles and engines requiring a long type of plug.

Extra long extension for the Meta car.

	Each
No. A23—Long, ½ inch	$1.00
No. A34—Extra Long, ½ inch	1.00

CHAMPION "O"

For Overland Cars

The Overland plug. Specially recommended to meet the requirements of the Overland motor.

	Each
No. A14—½ inch	$1.00
Champion ½ inch Standard, Specially adapted for Tractor, Truck, Farm and Stationary Engines where a ½ inch plug is used	$1.00

CHAMPION "X"

Adopted by the Ford Motor Co. as Standard Equipment on Ford Cars since 1911

There is nothing to be gained by experimenting with different makes of plugs. The make of plugs with which Ford engines are equipped when they leave the factory are best adapted to the requirements of the Ford motor.

	Each
No. A15—⅝ inch	$0.90

CHAMPION "FORDSON"

Equipment on Fordson Tractors and for use in engines requiring this type of plug.

	Each
No. A24—½ in. Long	$1.00

CHAMPION "MAXWELL"

Maxwell Factory Equipment Plug

For use in Allen, Dixie Flyer, Dodge, Elcar, Elgin, Glide, Grant, Hollier, Jones, Lexington, Meta, Mitchell, Packard, Paige-Detroit, Pierce-Arrow, States, Studebaker "1920" and Tractor, Truck, Farm and Stationary Engines.

	Each
No. A44—½ inch, 18	$1.00
No. A64—**Metric**, for use in Essex, Case, White Trucks and Engines requiring Metric Thread	1.00

SPARK PLUGS

CHAMPION

Champion Spark Plugs are Standard Factory Equipment on four out of every five Automobiles, Tractors and Stationary Gas Engines made in America. Fourteen Separate and Distinct Inspections must be passed before a single Spark Plug leaves the factory. Every Part is Machined and Gauged with Extreme Care, and the Assembly is Thorough.

CHAMPION "OAKLAND"

For use in Chevrolet, Oldsmobile, Oakland, Interstate and Tractor, Truck, Farm and Stationary Engines.

		Each
No. A53	⅞ in., 18 Long	$1 00
No. AA53	⅞ in., 18 Long; Made with 1⅛ in. **Hexagon** for use in Buick Cars, Tractor, Truck, Farm and Stationary Engines.	1 00

Ball Terminal furnished when specified, otherwise regular knurl nut.

CHAMPION "HEAVY STONE"

Specially adapted for Heavy Service Cars, Tractors, Trucks, Farm and Stationary Engines. ⅞ Inch size for use in Columbia, Cadillac, Dorris, Kissel-Kar, McFarlan Six, Overland Six, Willys-Knight, Willys-Six Winton

		Each
No. B13	½ inch	$1 25
No. B43	⅞ inch, 18	1 25

CHAMPION "HEAVY DUTY"

For use in Australian Six, Cole, Chalmers, Hudson, Liberty, Locomobile, Moon, National, Peerless, Hupmobile, and Heavy Service Trucks and Engines.

		Each
No. JAS43	⅞ inch, 18	$1 00

CHAMPION "PRIMING"

Will start a motor on the first quarter-turn.

Brings gasoline right to the sparking point.

A good winter seller

		Each
No. H14	½ in.	$1 50
No. H44	⅞-18	1.50

A-103 Conical

A-104 Petticoat

A-105 "X"

B-103 Heavy Stone

CHAMPION PORCELAINS

Porcelain	For Type	Sockets furnished with all Porcelains	Each
A-103	A-13, A-43		$0 60
A-104	A-14, A-14-0, A-44		.60
A-105	A-15		.50
B-103	B-13, B-43, B-73		.65

CHAMPION GASKETS

Patented Copper Asbestos Gaskets—an exclusive feature of all Champion Spark Plugs.

	Each
Champion Gaskets	$0.03

SPARK PLUG CLEANERS

CHAMPION "MINUTE"

The Quick and Easy Way to Clean Your Plugs

You don't even have to take the plugs apart.

No more fussing or fuming with emery paper; No more dirty, grimy hands; No more greasy clothes.

You fill tube half full of gasoline—Screw the plug into a bushing at the red—and then shake. The needles pick the carbon from the porcelain while the gas dissolves the oil.

In a minute or two you have a clean set of plugs—good as new.

Could anything be simpler or easier. The plugs become clean right before your eyes.

The Champion "Minute" Spark Plug Cleaner is the simple, sane and sweetless way of doing a hard job quickly and easily.

		Each
No. MC⅛	Threaded for ⅛ in. Spark Plugs	$0 75
No. MC¼	Threaded for ¼ in. Spark Plugs	.75
No. MCM	Threaded for Metric Spark Plugs.	.75

SPARK PLUGS

AC TITAN

A Quality Spark Plug, Adopted as Regular Equipment by the Majority of Leading Manufacturers

Steel Jacket, Blued; Special Alloy Electrode, Extra Heavy Porcelain forced through Jacket Against a Copper Gasket; Upper Part of Jacket Spun Over Gasket making a Gas-tight Joint; Clip Terminal or Plain Wire can be used

⅝-IN. LONG

Regular Equipment on White Trucks, Chandler, Hoyt, Mercland Trucks, Robinson Fire Trucks and Titan Trucks. Each

⅝ in. Long Body $1.00

⅞ IN. REGULAR

Regular Equipment on Cadillac, Chalmers, Cole, Dort, Hudson, Hupmobile, Jordan, Kissel-Kar, Liberty, Oldsmobile 8 cyl., Packard, Paige-Detroit, Peerless, Pierce-Arrow, Stutz, and 85 other well-known makes of passenger cars, trucks and tractors. Each

⅞ in. Regular.....$1.00

⅞ IN. LONG

Regular Equipment on Buick, Chevrolet, McLaughlin-Buick, Canada, Scripps-Booth 4 cyl., Samson Tractor and Wolverine Tractor. Each

⅞ in. Long.....$1.00

SAE REGULAR

Regular Equipment on Apperson, Daniels, Haynes, Locomobile, Marmon, Mitchell, Saxon, Singer, Stearns-Knight.

Each

SAE Regular $1.00

SAE LONG

Regular Equipment on Oakland 34-B, Oldsmobile 8 cyl., Premier, Seneca, all Nash cars up to 1919. 1919 Nash cars using Extra Long SAE Titan.

Each

SAE Long.....$1.00

CARBON PROOF ½ IN. REGULAR

Regular Equipment on Avery Tractors, Eagle Tractors, Hewitt Tractors, LaCrosse Tractors Maytag Washing Machines, Pioneer Tractors, Swartz Lighting Plants. Recommended for Ford Overland and Studebaker cars or any motor using ½ in. Regular Plugs.

Each

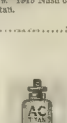
½ in. Regular $1.00

LONG ½ IN.

Regular Equipment on Reo cars and trucks. Recommended for Overland up to 1914 and Winton up to 1915.

Each

Long ½ in. .. $1.00



DODGE SPECIAL

Slightly longer than ½ in. Regular. Made especially for Dodge Bros. Exclusive equipment on all their cars.

Each

Dodge Special..... $. 60

REGULAR METRIC

Regular Equipment on Essex. Recommended for Pierce-Arrow 1915; all cars using Metric Plugs.

Each

Regular Metric.....$1.00

All Above, One in a Carton, One Dozen in a Box; Weight per Dozen about 4 Lbs.

Kelley-How-Thomson Co. of Duluth

SPARK PLUGS

AC CICO

The Standard Quality Plugs of America

Steel Jacket Blued: Special Alloy Electrode; Extra Heavy Porcelain forced through Jacket against a Copper Gasket; Upper Part of Jacket Spun Over Gasket making a Gas-tight Joint, Clip Terminal or Plain Wire can be used

⅛ IN. LONG

Regular Equipment on Chevrolet 490 up to 1919. New models using ⅞ in. Long AC Titan.

Each

⅛ in. Long.. ....$0.75

⅞ IN. REGULAR

Regular Equipment on all Dort, Federal Trucks, G. M. C. Trucks, Hudson, Hup, Liberty, Paterson, Paige, Pilot cars up to 1919. New models using ⅞ in. Regular AC Titan.

Each

⅞ in. Regular.....$0 75

SAE

Regular Equipment on all Saxon cars up to 1919. New models using SAE Regular Titan.

Each

SAE Regular.....$0.75

DODGE SPECIAL

Regular Equipment on all Dodge cars up to 1919. New models using Dodge Special Titan.

Each

Dodge Special..... .....$0 75

LONG ⅛ N.

Regular Equipment on all Reo cars and trucks up to 1919. New models using Long ⅛ in AC Titan.

Each

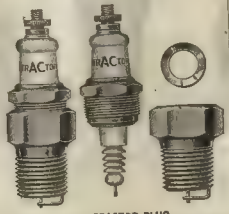
Long ⅛ in.. .....$0.75

REGULAR ⅛ IN.

Recommended for Ford, Studebaker and Overland cars and all cars using ⅛ in. Standard Plugs. Extra Long ⅛ in. recommended for Mets.

Each

⅛ in. Regular.....$0.75



AC TRACTOR PLUG

This new construction combines the advantages of the Titan Carbon-Proof one-piece design with the ready demountability of the Standard AC. It can be taken apart and reassembled any number of times without risk of spoiling the packing. Particularly recommended for Kerosene Burning Motors. Extra Porcelain with Bushing, 75 cents each.

Each

⅛ in. Tractor..... .....$1 25

⅞ in. Tractor..... ..... 1.25

All Above, One in a Carton, One Dozen in a Box; Weight per Dozen about 4 Lbs.

Kelley-How-Thomson Co. of Duluth
SPARK PLUGS

½ in. Standard

SPLITDORF

THE PLUG WITH THE GREEN JACKET

Owing to the fact that mica can expand and contract without damage, SPLITDORF is able to use a very large central electrode which manufacturers of porcelain plugs are unable to do, as the larger the central electrode, the greater the expansion and contraction and the greater the chance of their breaking the porcelain. This is the primary reason why in all porcelain plugs the central electrode will be found to be of very small diameter.

The mica, after being wrapped around the spindle, or central conductor is forced into a metal bushing with such pressure as to make it practically a solid mass and there is not the slightest possibility of compression leakage through or past it. One gasket only is used outside of this bushing, allowing the bushing to be tightened up to a point where compression leakage is impossible.

It is essential that a plug be easily taken apart for cleaning and, in the case of the "Green Jacket" plug, this operation is simple in the extreme. Any carbon deposits may be lightly scraped from the mica insulation, leaving it as clean and in as perfect condition as when the plug was new. In the case of the porcelain plug, each cleaning has a tendency to scratch the glazing from the insulator, and this allows it to become carbonized very soon again. Through this process the plug soon becomes worthless.

Special ½ in. for Ford

½ in. Long

½ in. Metz

NO BROKEN PORCELAIN

⅝x18 S. A. E. Buick

⅝ x 18 S. A. E. Heavy Hex.

¾ in. Heavy Tractor

¾x18 S. A. E. Long

⅝x18 S.A.E. Standard

	Each
½ in. Plugs, All Types	$1 00
⅝ in. Plugs, All Types	1 00
¾ in. Heavy Tractor	2 50

Packed 10 in a Carton

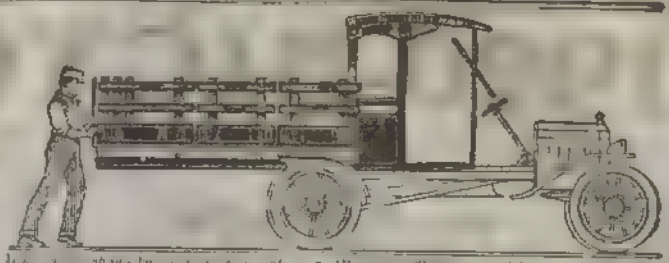
Ball Terminals for Franklin Cars furnished when requested, without Extra Charge

"PARAMOUNT"

COMMERCIAL BODIES FOR FORD CARS

"Paramount" Bodies are **made right.** They are built to meet all conditions of service. The demand for commercial bodies and trailers for Ford cars is increasing. Think how many prospective purchasers there are in your locality. Sell them.

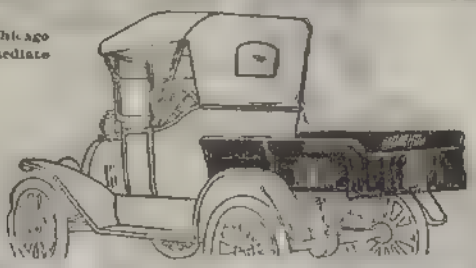
Shipped direct from factory in Central Illinois. F.O.B. 48 hours' service.



[illegible] a "Paramount" commercial body. NO EXTRA [illegible] spindles and attached, ready for use [illegible]

"PARAMOUNT" SLIP-ON BODY FOR FORD ROADSTERS

In stock in Chicago ready for immediate shipment.

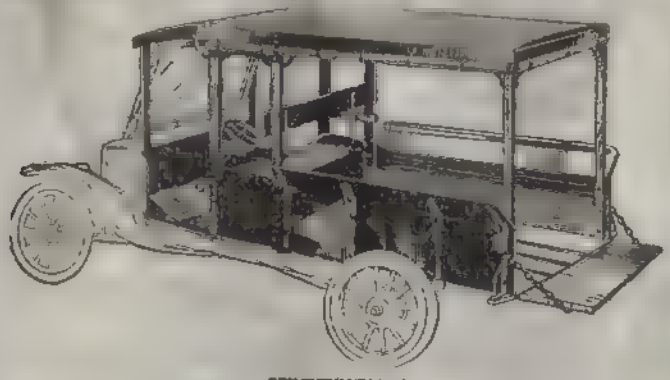


33 in. wide [illegible] hardwood floor boards with 8 double steel braces on each side. [illegible] floor boards are [illegible] door [illegible] rear [illegible] floor boards [illegible] with strips. [illegible] on rear [illegible] steel stock, [illegible] piped in. [illegible] parts [illegible] and that body is easily put on [illegible] necessary bolts being furnished [illegible] Ford car. Ship. wt. 150 lbs.

4K4981—15 inches long ..... Each **$11.50**
4K4982—[illegible] **12.00**

"PARAMOUNT" EXPRESS BODY

This express body is a [illegible] body made that [illegible] the [illegible] variety of business men grocers, butchers, plumbers, gas and telephone companies and practically any kind of business that calls for general trucking or delivery car.



SPECIFICATIONS

TOP—Heavy, well ironed, 6 post, special heavy brace irons designed to withstand rough usage, heavy rubber covered deck, heavy black enamel bed duck roll up curtains all around supported by [illegible] curtains with large nurse lights on either side of driver's seat.

BODY—Sills made of carefully selected and seasoned hardwood, panels are 16 in. high inside heavy flare boards. Full width seats.

TRIMMING—Full width folding legs back on drivers' seat, [illegible]

PAINTING—Black.

LOAD SPACE—42x62 in., 54 in. high full width rear end gate with chains, adjustable to any [illegible] load.

SHIPPING WT.—Knocked down and crated, under 84 in., 600 lbs.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons, all irons necessary for attaching to chassis.

4K4979—1 in crate ..... Each, **$70.00**
4K4981—Windshield extra **10.00**

"PARAMOUNT" EXPRESS BODY FOR ANY MODEL T FORD CAR

Well adapted to use of farmer, dairyman, hardware and general use.

SPECIFICATIONS

BODY—Panels 16 in. high. Corners metal bound. Entire body well ironed and braced with 6 double steel braces on each side. Floor protected by iron strips.

LOADING SPACE—42x62 in. Full width rear end gate with chains.

ALL CROSS RAILS, sills and flare boards hardwood. Balance of body made of selected stock.

SHIPPING WEIGHT—Crated for R. D. 650 lbs.

EQUIPMENT—Includes toe boards and irons. Also all irons necessary for attaching to chassis. Also rear lamp bracket.

We guarantee [illegible] to be one of best express bodies built for Ford cars.

4K4975—1 in crate ..... Each **$35.00**

"PARAMOUNT" CAB SEAT OPEN EXPRESS BODY

This type of commercial body meets a large demand for hauling purposes of various kinds.

SPECIFICATIONS

BODY—Panels are 16 in. high [illegible] ound, entire body well ironed and braced, floor protected by [illegible] in. wide [illegible] 6 double steel braces on each side. [illegible] are [illegible] flare boards.

PAINTING—Black [illegible]

LOADING SPACE—[illegible] in. width rear end gate with chains enabling one to adjust body to any [illegible] of load. Hardwood [illegible] cross rails and flare boards.

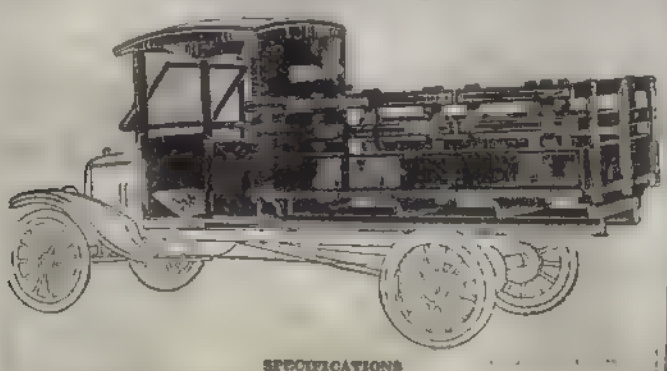
SHIPPING WEIGHT—Crated for [illegible] 700 lbs.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons, also all irons necessary for attaching to chassis.

4K4977—1 in crate ..... Each, **$62.00**
4K4981—Windshield extra **10.00**

"PARAMOUNT" COMMERCIAL STAKE BODY

Platform body with two-stake sections on each side. Regular equipment includes platform body with removable sign board stakes, cab complete except windshield.



SPECIFICATIONS

Loading space 60x76 in., well rounded sills for chassis service, sills of well seasoned hardwood stock, heavily ironed to long cross sills, floors hardwood protected with steel strips, painted black.

4K4973—1 in crate ..... Each **$96.00**
4K4981—Windshield extra **10.00**

ENCLOSED CAB AND WINDSHIELD

4K4956 4K4980

Enclosed Cab—44 in. wide, 44 in. long, 56 in. high, door on right hand side, panel on left, both easily removed for open service, furnished with seat and 3 foot board, all [illegible] back [illegible] glass rear [illegible] all bolts [illegible] holes drilled, bolts and screws furnished [illegible] cab [illegible] [illegible] with [illegible] covered.

4K4956—1 in crate [illegible] 200 lbs. Each, **$80.00**

Windshield—54 in. high, 40 in. wide, glass 22x32 in., oak frame well ironed, adjustable sash, can be used with practically all commercial bodies.

4K4980—1 in crate 50 lbs. Each, **$18.00**

FOR FORD CARS

7 PC. SOCKET WRENCH SET

4K3[illegible] ... and how to ... SET 7 pcs., $1.15

WRENCH SETS

4K5943—Moesberg offset, set of 5 solid bar with pressed steel socket each end, fits all nuts bolts and spark plugs on Ford cars, in leatherette bag 1 set in bx. SET (5 pcs.) $3.45

4K3842—Moesberg universal socket fits every nut and bolt on Ford cars. Set comprises 1 Moesberg ratchet handle wrench 1 7-in. extension bar 1 universal joint 1 spark plug socket 10 pressed steel sockets 1 carbon scraper, screwdriver blade combined Complete in leatherette case. SET 18 pcs.), $4.75

RAY SOCKET WRENCH SET

4K5831—Each set in metal case. Set comprises 1 Special Oval Socket for Ford small bearing bolts 1 Reversible Ratchet Handle 1 Screw Driver [illegible] 1 Extension Bar 1 Spark Plug Socket 10 Hex. Sockets 1 Square Spanner Socket 1 Universal Joint 10 Pressed Steel Sockets Hex. Sockets—[illegible] Square Sockets—[illegible] SET 17 pcs., $5.65

[illegible] WRENCH SET

4K3806—Consists of 8 drop forged steel [illegible] wrench as pictured. Made of high grade [illegible] steel, heat treated, [illegible] Furnished in [illegible] roll boxed. Set of 8 pcs., $2.65

"OFF AND ON" TIRE TOOL

4K4528—Will take off or put on any regular tire chain casing in 1 minute. Fine cast grade malleable steel [illegible] screws as hammer or lever as well as universal. Put on bolt and [illegible] to tighten. Each 95c

MOSSBERG CONNECTING ROD WRENCH

4K3848—Offset construction makes it easy to fit No. 4 rod on [illegible] bolt. To reach 1 in pkg ... Each 35c

[illegible] WHEEL PULLER

4K4684—Black [illegible] heavy grade metal [illegible] will not strip threads. 1 in pkg Each 42c

LANE'S UNIQUE RATCHET WRENCH

4K4088—Machine made throughout, sockets turned from Bessemer steel, case hardened and warranted not to break or spread. 805 pattern. 1 handle, 7 in. long, 1 [illegible] 1 in. straight [illegible] sockets to fit nuts and [illegible] on Ford cars. Each set in leather case. SET 10 pcs. $2.75

OIL PET COCK WRENCH

4K5646—22 in. long, ¾ in. diam., black enameled. 1 doz. in pkg. Doz. 95c

GLOBE BLACK ENAMELED TOOL BOX

4K[illegible] ... Each $1.85

BLACK ENAMELED STEEL TOOL BOX

4K[illegible] ... heavy sheet ... hasp, fabric fastener ... Each $1.75
12 or more ... 1.65

★ *Prices marked with a star (as ★80) are "special" for the current month — See "Simulator" Pages*

14 PC. TOOL KIT

4K3821—14 pc. [illegible] tools are warranted high grade material and well [illegible] No tool kit on the market to equal this at the price. Each kit in carton ... KIT 14 pcs., $3.95

FELT WASHERS

4K4812—Set consists of 20 washers making a complete set for the Ford car, first quality felt. 1 set in carton. Set, 36c

4K3388—Set consists of 6 washers as follows
2—3510 Rear wheel hub washers
800 Front wheel hub washers
1—3015—Pane shaft
1—3544—Steering bracket washers
Made of first quality heavy felt. 1 set in carton, Set, 12c

BEARDSLEY "NEVER SLIP" VALVE LIFTERS

4K7913—For all Ford [illegible] ... 1 pair of rel cam [illegible] ... allows free use of [illegible] permits greater speed in grinding valves. 1 in box. Each 95c

TOOL STEEL BALLS

Made from high grade tool steel and are recommended for heavy service, guaranteed to be free from flaws and accurately gauged. Packed in damp proof screw top container

4K8368—¾ in. 250 in box. Box $1.35
4K8369—¾ in. 100 in box. Box, $1.10

ASSTD. SPRING COTTERS

4K8364—[illegible] Assortment. Assortment as follows: [illegible] Doz. boxes $1.00

STANDARD RADIATOR CAP

4K3501—[illegible] radiator cap [illegible] Each 12c

"PEERLESS" RADIATOR CAP

4K3383—[illegible] 1 in carton, each times [illegible] Each 17c
Lots of 6 or more ... 12c

HUB CAPS

4K4407—Black enameled. Each, 9c

4K5017—Polished brass. Each, 14c

DRIVE SHAFT PINION GEAR

4K5840—Ford Part No. 3507B [illegible] from first [illegible] 1 in box. Each 96c

SPECIAL PAINTING OUTFIT FOR FORD OR OTHER SMALL CARS

Complete in every detail, contains everything necessary to make a first-class job. Color finishes and other materials are especially prepared to be used by private car owners, will not show brush marks or laps, no experience required.

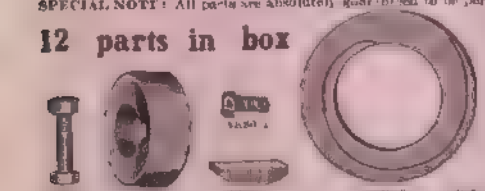
4K2356—Consists of the following: 1 pint black body paint, 1 pint black gear finish, 1 pint black [illegible] and 1 [illegible] (1 [illegible] and to be [illegible] [illegible] [illegible] [illegible] Instruction [illegible] 1 set in box. Set $3.75

PARTS FOR FORDS

We are prepared to furnish exact duplicates of various Ford parts bolts, screws, etc., as listed below. All parts shown are interchangeable with the standard Ford parts of the same numbers.

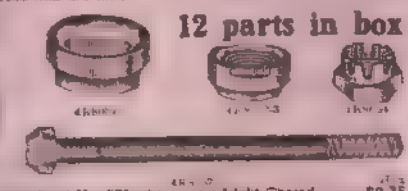
SPECIAL NOTE: All parts are absolutely guaranteed to be perfect in workmanship and materials. All bushings are made of bronze and are milled to one-thousandth part of an inch.

12 parts in box

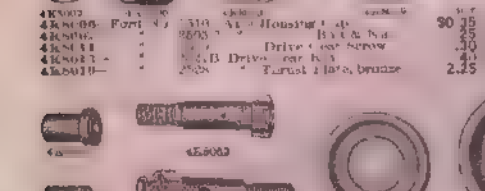


			Box
4K8002	[illegible]	[illegible]	$0.15
4K8006	Ford No.	3510 Rear Wheel Housing Cup	.25
4K8016	"	2503 " Bevel Gear Nut	.55
4K8041	"	[illegible] Drive Gear Screw	.10
4K8023	"	[illegible] Drive Gear Key	.40
4K8019	"	2828 " Thrust Plate, bronze	2.25

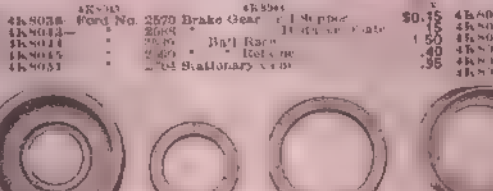
			Box
4K8038	Ford No.	2570 Brake Gear Clamp	$0.15
4K8033	"	2068 " Differential Gear	.55
4K8044	"	[illegible] Ball Race	.40
4K8045	"	2409 " Retaining	.40
4K8051	"	2504 Stationary Cone	.95



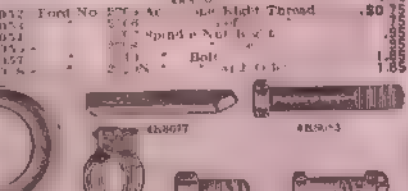
			Box
4K8012	Ford No.	[illegible] Axle Right Thread	$0.10
4K8054	"	2504 " Spindle Nut Lock	.10
4K8052	"	[illegible] " Bolt	.10
4K8057	"	[illegible] "	.10



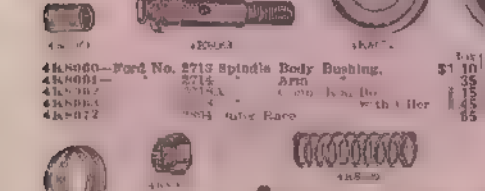
			Box
4K8060	Ford No.	2713 Spindle Body Bushing,	$1.10
4K8001	"	2714 " Arm	.35
4K8062	"	[illegible] " Arm Bushing	.15
4K8063	"	[illegible] with Collar	.45
4K8072	"	[illegible] Outer Race	.65



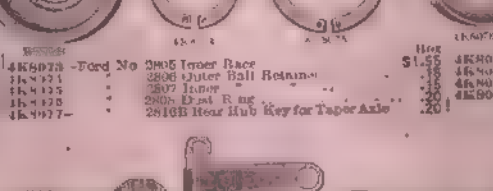
			Box
4K8073	Ford No.	3905 Inner Race	$1.55
4K8071	"	3906 Outer Ball Retainer	.15
4K8025	"	2507 Inner "	.35
4K8026	"	2805 Dust Ring	.15
4K8077	"	2816B Rear Hub Key for Taper Axle	.20



			Box
4K8083	Ford No.	3003 Cyl. Head Cap Screw	$0.50
4K8084	"	3007 " Outlet Hose [illegible] Screw	.35
4K8085	"	3008 " " Cover Screw	.35
4K8066	"	3014 " Crank Case Bolt & Nut	.80



			Box
4K8326	Ford No.	3045 Outlet Connection	$0.50
4K8095	"	3036 Crank Shaft Bearing Bolt Nut	.40
4K8092	"	3025 Conn. Rod Cap Bolt & Nut	.75
4K8253	"	4733 Lower Spring for Metal Box Coil	.95



			Box
4K8252	Ford No.	4734 Upper Spring for Metal Box Coil	$1.35
4K8108	"	3082 Valve	1.35
4K8109	"	3054 " Spring	.25
4K8216	"	3837 " Tie Rod & Nut	.40

			Box
4K8243	Ford No.	4650 Inner Spring for K-W Coil	$0.95
4K8245	"	4[illegible] [illegible]	1.35
4K8230	"	4731 Switch Plug for Metal Box Coil	.60

FOR FORD CARS

GORDON JIFFY CUSHION SLIPS

A few sizes fit 90% of cars. Attach's with hook racks in top and adjustable straps under cushions. Easily removed, washable [illegible] yarn dyed [illegible] tacks and directions.

Gordon's No. 500—Herringbone weave, light & dk. tan alternate on narrow stripes

4K7088 Ford Sedan coupe seat . . . . . Each $2.15

4K7089—For all individual front seat except Ford Sedan . . . . . Each, $2.15

4K 900—Ford front seat touring & runabout. Ea h $2.75

4K 901 — Ford rear seat touring . . . . . Ea h $2.75

4K [illegible] seat . . . . . Each $3.25

4K7933 - 38 to 41 rear seat . . . . . Each $3.25

4K7934 38 to 41 in front seat . . . . . Each $3.25

4K7935—46 to 48 in rear A Ford Sedan . . . . . Each, $3.25

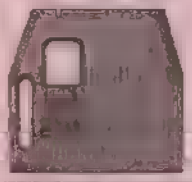
4K7936—4 to 45 in front & Ford Coupe. . . . . Each, $3.25

4K7937 - 46 to 49 in rear seat . . . . . Ea h, $3.25

DUST HOOD FOR ONE-MAN TOURING CAR TOP

4K3314—Made for one-man tops, very durable and satisfactory dust cover, made of rubber well made and quick seller 1 in pkg Each $3.25

RUBBER MATS



[illegible] spots on floor boards and dashes also same style mats as furnished with regular Ford equipment. 3 in pkg.

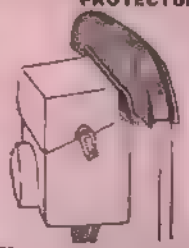
4K4594—Fits 1915, and later models . . . . . Each 95c

4K4595—Fits earlier models than 1915 . . . . . Each, 95c

TONNEAU MAT

4K4588 — Heavy serviceable material, mohair finish leather color reinforced buttonholed edging, fits all model T Ford cars . . . . . Each, $1.10

COIL BOX PROTECTOR



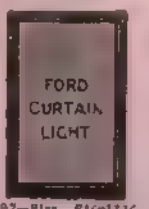
4K3781—Stamped sheet steel hand finished easily installed, lowers 8 ohm on dash, press over dash slip in position, fasten nuts, positive protection against rain. 1 in box. . . . . Each, $1.00

"FAULTLESS" TIRE COVER

4K5056—30x3½. for tires on demountable rims or with wire wheels. Popular black and white ribbed thread design Fitted with straps and buckles which makes adjusting much easier than old style straps. Best of material & beautifully finished Ea. $2.35

CELLULOID REAR CURTAIN LIGHTS

For replacing old or broken lights. Attached in 3 minutes



4K3397—Size 6½x11½ In For 1917 and 1918 Ford cars

Lots of 12 or more, Ea 25c
Less quantity " 27c

4K4971—Size 11x18 in For 1914 1915 and 1916 Ford cars 1 in pkg. Each 48c
Lots of 12 or more 45c

"ALL WEATHER" PROTECTOR

4K5748—Insulates the floor from excessive heat of the engine drives the hot air back beneath the car, closes lever slots irrespective of position of lever, does not interfere with running of the car Set consists of metal and rubber pedal slot covers and emergency brake slot cover All steel parts black japan Each set in carton with instructions and screws for immediate attachment Set, $1.15

COIL BOX PROTECTOR

4K9747—Heavy Ford top rubber, fits snugly [illegible] leakable Rolls up to windshield when not in use To [illegible] to fit Complete with directions. 1 in box Each 65c

CUSHIONS

Same type as is sent out in Ford cars Top has one row of [illegible] and [illegible] [illegible] appearance 1 in pkg

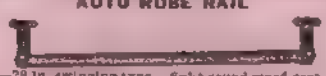
4K9790 [illegible] at Each
4K9791 For Front Touring Seat . $8.50
4K9192 For R [illegible] Seat

ANTI-DRAUGHT SHIELD

Fits between windshield and top of car Keeps out snow rain or wind.

4K4195—32 oz. black enameled duck, strong spring clamps for fastening to windshield, curtain fastener or eyelets [illegible] to top F [illegible] Ford car Each 45c

AUTO ROBE RAIL



4K4498—28 in swinging type Split round wood core covered with closed [illegible] on rather solid leather strap hangers & nickel plated [illegible] Ea 65c

"ARISTOCRAT" REAR GLASS WINDOW SET For 1917 to 1920 Models

STAR VALUE

4K5679 — Best grade double strength glass highly polished nickel plated frame, complete Easily installed without tools Three windows in set 1 set in carton. Set **$2.15**

"FAULTLESS" SLIP SEAT COVERS Hand Tailored

Tan Jeane—Leather bound, [illegible] Hand tailored best quality waterproof material Complete set except top Shipped in box with all parts for trimming

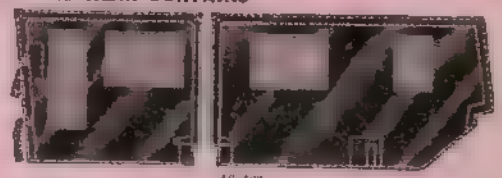
4 [illegible] Touring models 1915-16 Set, $11.50
4 [illegible] " " 1917 & later " $11.50
4K [illegible]—Roadster " 1915-16 " $6.50
4 [illegible] " " 1917 & later " $6.50

Gray Bedford Cord Handsome all specs area and a material that will give unusual wear. Hand tailored with leather bound edges. Shipped complete in box with all attachments Top slip not included

4K [illegible] Touring models 1915-16 Set, $14.50
4K [illegible] " " 1917 & later " $14.50
4K [illegible]—Roadster " 1915-16 " $8.50
4K [illegible]— " " 1917 & later " $8.50

SIDE AND REAR CURTAINS

4K [illegible]



4K [illegible]

4K3508

Back Curtain—One piece with regulation lights. Made of 32 oz. rubber Complete with all tacks, binding and fastenings Can be supplied in a few minutes.

4K3504 1 in box Each $3.15

Back Curtain—One piece with two double strength glass lights 4½x8½ in inside measurements Japanned metal frame Made of 32 oz. rubber Complete with all fastenings

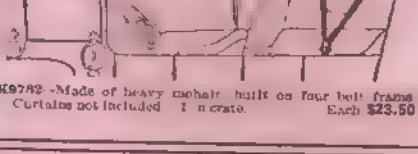
4K3505—1 in carton . . . . Each, $4.75

Side Curtains—Equipped with generous celluloid lights Made of [illegible] rubber same as original Ford curtains All eyelets and fasteners necessary to fit curtains are furnished 1 set in carton

4K3502—For Ford Roadster Top SET 2 pcs), $7.50

4K3503—For Ford Touring Top 4 pcs Set, $11.50

TOURING CAR ONE MAN TOPS



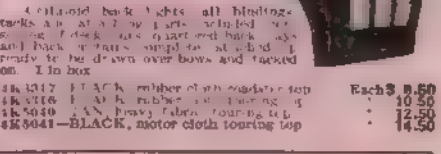
4K9782 -Made of heavy mohair built on four bolt frame Curtains not included 1 in crate. Each $23.50

For 1915 and Later Model Ford Cars

4K9785 — Back [illegible] [illegible] rear curtain [illegible] four bolt frame, latest style curtains. . . . . Each, $42.50

TOP RECOVERS

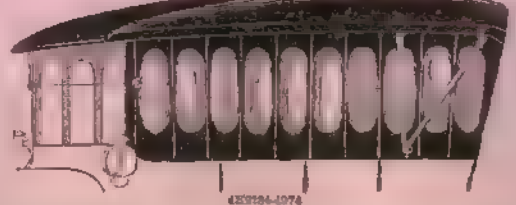
For 1918 and Later Model Ford Cars.



Celluloid back lights all bindings tacks and [illegible] parts included for [illegible] Full [illegible] quarter back sides and back curtains complete [illegible] ready to be drawn over bows and tacked on. 1 in box

4K [illegible] BLACK rubber cloth roadster top Each $ 8.50
4K [illegible] BLACK rubber [illegible] touring top " 10.50
4K5040 TAN heavy fabric touring top " 12.50
4K5041—BLACK, motor cloth touring top " 14.50

ONE MAN TOPS—For Touring Cars and Roadsters



4K9784-4974

Well made tops of reliable and weather resisting materials. Get your share of the many possible sales during the winter.

Touring Car—Tan color made of highest grade aero material Improved style four bolt frame equipped with complete set latest style curtains. $29.50
4K9784— Each.

Touring Car—Improved style, made of heavy grade mohair built on four bolt frame, equipped with latest style fully curtain. $32.50
4K4974—1 in crate . . . . . Each.

Roadster—Jiffy curtains covered with waterproof rubber cloth, extra well made, an exceptional value at this price. 1 in pkg.
4K3315— . . . . . Each $29.50

4K3315

FOR FORD CARS

VENTILATING WINDSHIELD FRAME

Glass not included.

4K5089 — Fits 1915 to 1920 models, inclusive. Beautifully finished in black enamel and nickel plate. Transforms the glass of the old Ford windshield into an improved type of ventilation and vision and ventilating. Easily installed. Each in strong fiber carton Each **$7.50**

WINDSHIELD ATTACHMENT

4K1361 For convertng windshields regularly furnished with 1915-16-17-18 Ford cars into RAIN VISION AND VENTILATING TYPES. Adjustable from seat top folds down at the way and may be tilted rearwards to provide draught ventilation, finished in black enamel. In box with complete instructions for installing. ..... Each **$3.15**

FRONT LICENSE BRACKETS

4K3584 Black enamel finish holds the front license plate rigidly, fastens under front spring clip nuts, 2 pcs. heavy steel stampings. 1 set in box. Set **18c**

4K3585—Offset type, high grade enamel finish, made of half hard spring wire with tension lips covered with pure white rubber tubing mosdest and attractive Easily attached by removing nut under left lamp post 1 in box Each **22c**

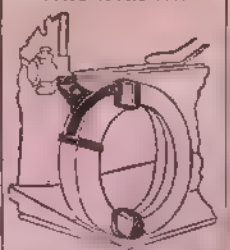
"EMCO" TIRE CARRIERS

Adopted as standard equipment on all 1920 models of Ford cars. Black enameled sheet steel, easily attached, no bolts or straps required simply pull with hand releases tire and light push anchors it fast, cannot work loose

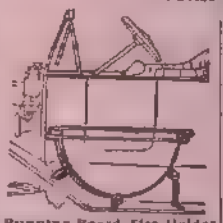
4K3500—Double clincher for 2 clincher tires without rims, one 30x3 and one 30x3½ Each, **$3.85**
Lots of 6 or more " **3.75**

4K3501 Carrying a tire on demountable rim for Ford and Chevrolet model 490. Each **$4.20**
Lots of 6 or more, " **3.90**

TIRE HOLDERS



Running Board Tire Holder—Malleable iron, ribbed black enamel, curved flange, eliminates vibration, tires are supported at three points carries any size tire accommodates one or two tires or demountable rims, floor plate is stamped and bolted to the running board, attaches by removing the windshield bracket bolts. Outfit consists of upper bracket, floor plate & three straps, 1 set fit in carton
4K3808 Hold 2 tires. Each, **$1.65**

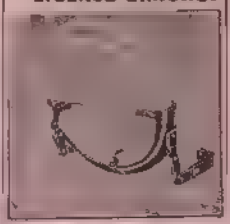


Running Board Tire Holder—Black enameled steel frame electric welded joints, attached to left running board, tire lock hasp case, light and strong. 1 in carton Each
4K3805—Holds 2 tires **$2.25**

Boat Tire Holder—Black enameled malleable iron, center arm clamps frame, side arms clamp on bow rests license bracket, 1 set in box.
4K3913—Holds 1 or 2 tires. Each **$3.50**

Rear Tire Holder—Black japanned tubing steel frame electric welded joints, strong to carry tail light and license pad. 1 in crate. Each
4K4851—Holds 1 tire. **$3.75**
4K5852— " 2 " ... **3.95**

REAR TIRE HOLDER & LICENSE BRACKET



4K3712 Adjustable. Carries tire and demountable rim, license and rear lamp can be attached. Made of cold rolled steel, black enameled. Will stand hard service. 1 in carton . Each. **$4.50**

RUBBER PEDAL PADS

4K3405—Snap-on style, corrugated, prevents feet from slipping off pedals good quality rubber 3 in set. 1 set in box. Set. **28c**
Lots of 12 sets or more" **.26c**

"STURDY" EXTENSION PEDAL SET

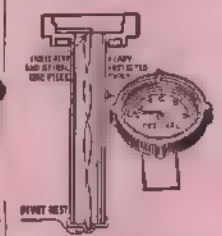
4K5888 Made of malleable iron, heavy pyramid inserts, eliminates vibration, safety guards on sides prevent feet from slipping transforms the small inefficient Ford clutch and brake pedals into safe and comfortable foot rests. Rubber inserts can be replaced at a small cost. Easily attached Set. **$1.15**

CHAIN CASE OIL GAUGES

4K3376—¾x3¼ in solid brass gauge and imported glass sight indicates correct level of oil in the crank case, to attach remove the lower pet cock from crank case attach the gauge, and screw the pet cock back to the opening of the gauge bent pipe nipple gives correct angle for gauge, metal guard for glass tube 1 in pkg..... Each, **24c**

4K4871 — Glass sight oil feed, polished brass, pet cock on bottom of gauge, shows level of oil in crank case, attached by removing pet cock from crank case. 1 in box Each, **60c**

FILLER CAP GASOLINE GAUGE



4K4814 Steel tube, malleable iron cap, nickeled, contains brass float, fitted to spiral upright, gauge can be rolled upon to register the contents of the tank at all times, head contains etched dial and indicator 1 in box. Each **95c**

"ZIM" DASH OIL SIGHT FEED SYSTEMS

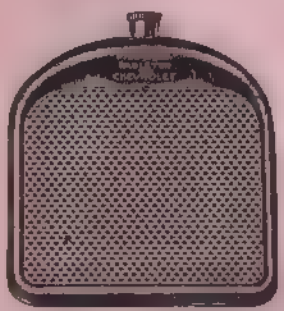
Eliminates corrosion trouble, supplies a constant flow of oil to engine This when oil is dirty, when in crank case is low Condition of oil supply can be seen from driver's seat Oil friction points made of case hardened steel Can be installed easily Each with all necessary attachments and instructions. 1 in box

4K5787 Dash type. Each, **$5.95**

4K5945 Instrument board type Each **$5.95**

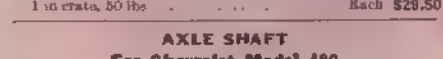
For MAXWELLS, CHEVROLETS, DODGES and BRISCOE CARS

PEERLESS RADIATOR FOR CHEVROLET 490—1918 TO 1920

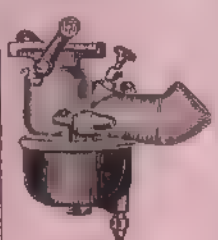


4K5501—All parts coming in contact with water are brass—top and bottom parts are one piece—eliminating soldered seams—case is of honeycomb construction The shell is of heavy gauge—bright finish cold rolled steel finished in two coats of black enamel—boxed on. Radiator can is included. 1 in crate, 50 lbs . . . . . Each **$29.50**

AXLE SHAFT
For Chevrolet Model 490



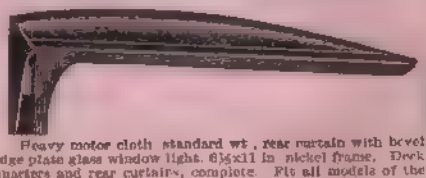
4K3763—Heat treated, hot rolled steel, accurately ground. Each, **$1.45**



KINGSTON CARBURETORS
For Maxwells Chevrolets, Dodges and Briscoe Cars

Prevents expensive burn and waste from loose, heavy fuel connection. Sediment cannot clog needle valve or interfere with operation. Fuel strainer removes bad effects of low quality gasoline. Fully guaranteed
4K4453—For Chevrolet 490 Each **$7.70**
4K4454 — For Maxwell all models Each **$8.75**
4K4452 For Dodge all models Each **$10.50**

TOURING CAR TOP RECOVERS
For Chevrolets, Maxwells and Dodges



Heavy motor cloth standard wt., rear curtain with bevel edge plate glass window light, 6½x11 in nickel frame, Deck quarters and rear curtains, complete. Fit all models of the following cars

For 1917 and later models

4K5654—For Chevrolet car, model 490	Each	**$18.50**
4K5655—For Maxwell cars	"	**19.50**
4K5656—For Dodge cars	"	**21.00**

TOURING CAR ONE-MAN TOPS
For Maxwells and Chevrolets

Fit all models. Improved style made of heavy grade mohair, four bolt frame equipped with latest style colonial pattern curtain, oblong window lights.

For 1917 and later models

4K9786—For Maxwell cars	Each	**$45.00**
4K9787—For Chevrolet cars	"	**45.00**

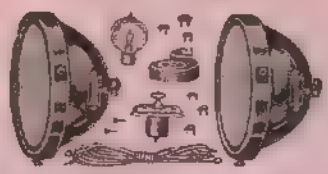
BOYCE MOTOMETER

Extensively advertised and well known scientific motor heat-gauge, attaches to radiator cap, accurately registers operating condition of gas engines through temperature of cooling system, red field in thermometer tube indicates temperature. Luminous wire screen behind thermometer tube makes easy reading in dark, gives immediate warning of unusual motor conditions broken fan belt water pump, clogged circulation systems, lack of water, oil, etc

4K4032—Midget, 4 in. for small cars, Maxwell, Chevrolet Briscoe, etc Each, **$1.88**
Lots of 10 or more, " **1.75**

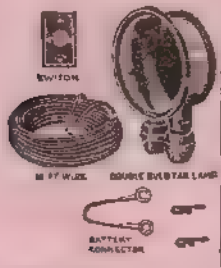
FOR FORD CARS

HEADLIGHT ASSEMBLY



4K4567—For models prior to 1915. 9 in. black enameled lamps, distance between props 7 in., bright polished parabolic reflectors, double rod 1 pc. doors, 15 c. p., 9 volt Mazda bulb, double contact type, complete assembly including all necessary parts for installing, full directions and diagram with each assembly, easily installed. Set, **$5.50**

TAIL LAMP ASSEMBLY



4K3339—Tail lamp switch with resistance coil mounted, 1 wire 12 ft. cable. When connected properly, current flows from magneto when engine is running, lamp lights. Each **$1.50**

OIL TAIL LAMP

4K4443—For steel sided Fords, 9½ x 4 plus 4 x 4 door pockets, all black enamel, to fit body, all parts riveted no solder used, special bolt fastener adapted to those cars, crystal lens on the side, has 2 brass lever to raise patent screw top air chamber. 1 in box. Each **$1.85**

HEADLIGHT REFLECTORS

4K4586 — Drawn parabola shape, light polished and silver plated. 1 pr. in box. Pr. **$1.65**

PARTS FOR FORD LAMPS

Oil Font with Burner—Complete for tail and side lamps, black enameled.
4K3343—1 in box. Each. **65c**

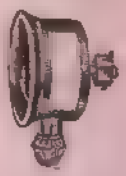
Door Guts for 1911 and later models 9 in. black enameled.
4K5687—1 in box. Each **45c**

Door and Glass—For 1915 and later models 9 in. black enameled door.
4K3342—1 in box. Each **60c**

MAGNETO SPOTLIGHT

4K7981 Complete, 1 post to magneto, no battery required, 7 in. long, 4½ in. diameter glass, 3 in., rear waterproof pressed steel bracket. 1 in box. 3 lbs. Each **$4.15**

ELECTRIC TAIL AND SIDE LAMPS



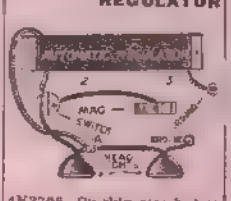
Tail—For 1915 & later Ford cars, diam., 3½ in., black enameled, 3 in. removable semaphore ruby lens, latest type off and on switch fitted with a special bolt fastener for late model Fords, uses 2 c. p. Tungsten bulbs, white side lens.
4K3336—1 in box. Each. **60c**

Side—1915 & later Fords. 4 x 4 in. cast, all black enamel, highly polished, special bolt fastener, hinged door, possible to replace if accident fastens, uses 2 c. p. bulbs, 6 volts, Tungsten filaments, double contact connection.
4K3341 1 pr. in box. Pr. **$3.15**

COMBINATION ELECTRIC TAIL LIGHT & LICENSE HOLDER

4K4536—6½ in. black enameled bracket, 3 in. pan with adjustable rubber lens, with recess for illuminating license number, latest type of off and on switch, by which lamp can be easily disconnected, 2 c. p. Tungsten bulbs, dustproof. 1 in box. Each. **95c**

AUTOMATIC LIGHT REGULATOR



4K3765—Quickly attached to any model Ford car, gives brilliant light at lowest engine speed, prevents lights from burning out when the engine races, uses regular Ford connections and same system of wiring, automatic in operation. 1 in box with directions. Each **Out**

HEADLIGHT INTENSIFIER

4K3766—This Intensifier plug socket is an appliance that will increase the light of your Ford headlights 100%. Simple [illegible] guaranteed. 1 in carton. Each. **65c**

WIRING OUTFITS

Spark Plug Set—Braided covers, copper terminals, cut to correct sizes.
4K4146—1 set in pkg. Set. **35c**

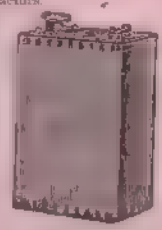
Ignition Harness—18 gauge copper wire rubber insulated, braided cover, each wire with copper terminals and different color covered braid, oil and waterproof, jacket, 1 set in pkg.
4K4144—4 wire set. Set **45c**
4K4145—5 wire set, 5th wire for electric light. Set. **60c**
4K4154—6 wire set. " **65c**

Ignition Harness, Metallic Covered. 18 gauge copper wire, rubber insulated in metallic tube, exceptionally durable, impervious to moisture and oil, waterproof.
4K4143—5 wire set. Set. **85c**

Ignition Harness, Loom Covered. 18 gauge copper wire, rubber insulated, heavy loom, proof against moisture and oil, will not short circuit.
4K4141 5 wire set. Set. **Out**
4K4158—6 wire set, for Fords equipped with storage battery and self starter wires. Set. **72c**

DASH COIL UNIT

For Ford Cars or Fordson Tractors.



4K9751—In this Kingston coil only high grade materials are used and are guaranteed in every respect. A replacement unit for this coil is [illegible] Each **$2.15**

GOODRICH SWITCH WITH YALE LOCK

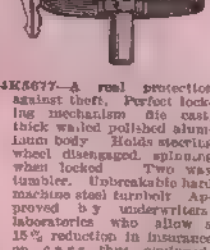
Absolute security against theft. Fits over regular coil and takes place of original switch using pocket covers screws which attach it. Every Ford owner needs one.

4K3933—Polished aluminum plate, counter-sunk screw holes covered by brass arms when locked, key turns switch on and off, attached in a few minutes, 3 keys and directions with each lock. 1 in box. Each. **$2.85**

K. W. AUTOLOCK

4K5643—Approved by Insurance Underwriters, who allow a 15% reduction on insurance. Locks automatically and simultaneously with the stopping of the car. Easily installed. 1 in box with directions. . . Each. **$2.85**

SIMPLEX STEERING WHEEL LOCK



4K5677—A real protection against theft. Perfect locking mechanism die cast, thick walled polished aluminum body. Holds steering wheel disengaged, spinning when locked. Two way tumbler. Unbreakable hard machine steel turnbolt. Approved by underwriters laboratories who allow a 15% reduction in insurance on cars thus equipped. Easily installed. . . box. Each **$4.75**

"SECURITY" AUTO THEFT SIGNAL

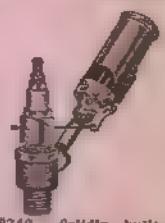
Made of [illegible] heat treated [illegible] with spiral [illegible] of [illegible] front wheel. Auto [illegible] by [illegible] and of steel [illegible] causes [illegible] peculiar noise. No two sets [illegible] exact duplicates [illegible] 20 manufacturers for several [illegible] engineers for several [illegible] any one operating [illegible] of [illegible] signal.

4K5950 — No. 3 Ford type wood clincher rim 3 in. tires. . Each. **$5.35**
Lots of 6 or more " **5.00**

4K5951 No. F3½ N8., Ford type wood wheels clincher rim, 3½ in. tires. 1 in box. Each **$6.15**
Lots of 6 or more " **5.75**

4K5952 No. F3½ D. For demountable or mail wood wheels, as Ford, Maxwell, Hotchkiss, Saxon etc. 3½ in. tires. 1 in box. Each. **$6.15**
Lots of 6 or more " **5.75**

SAFETY WARNING WHISTLE



4K9740 — Solidly built of heavy castings and metal stampings, nothing to break or get out of order, heavy nickel finish, no wiring or short circuiting. Spark plug not included. A clear musical blast that demands attention. Each complete in box. . . . . Each **$2.25**

BUELL EXPLOSION WHISTLE – With Splitdorf Spark Plug

4K9762—Most powerful, practical and perfect warning device made. Standard equipment on all the well-known trucks. Complete with Ford attachment. 1 in box. Each. **$3.95**

"GOODRICH" COIL BOX LOCK

4K3780 — Approved by Board of Underwriters. Fits any Ford with metal coil box, replaces old top, lock operates levers which lock vibrator points, car cannot be started or top removed until key is inserted and turned. The best thiefproof device for Ford cars. 1 in box. Each. **$5.95**

DOUCLE BULB HEADLIGHT

4K5705—Fits all 1915 and later models. Standard double bulb dimming head light. 1 pr. in box. Pr. **$6.25**

ELECTRIC HEAD LAMPS

Lasting black enameled finish. 1 piece steel bodies

4K4530—1914 and earlier models. 9 in. diam., 7 in. between props, 1 pc. steel body, black enameled fixed parabola shaped reflector with cord attached dust and rattleproof, push button type bulb, 15 c. p., 6 volt Mazda bulb, double wiring only. 1 pr. in box.
Pr. **$4.50**

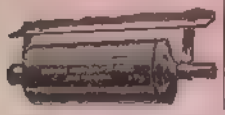
4K4841 For 1915 and later models 9 in. diam., special one bracket support. 1 pc. steel body, black enamel, parabola shaped reflector focused from outside, cord attached, dust and rattleproof, round door, 15 c. p., 6 volt Mazda bulb, double wiring only. 1 pr. in box.
Pr. **$4.75**

THE SHORT CUT

to more business and better profits is selling goods that are in demand. The great number of Ford cars in use today makes it imperative that Ford owners seek a ready market for Ford accessories. Buy from a reliable source at lowest prices and get your share of this prosperous business. Study these interesting pages NOW.

FOR FORD CARS

MUFFLER



4K3356—22 gauge 12x6 in. sheet steel construction with tube resonator and [illegible] actual tests show less back pressure and [illegible] Complete with front and rear brackets that bolt to chassis frame in holes already provided 1 in carton Ea $1.20

"APCO" CRANK CASE ARM

4K6057 Heavy 16 gauge pressed steel, black enameled, stamped and drilled, ready to attach to [illegible] crankcase 1 in pkg Each, 70c

"APCO" 1 PC. MUFFLER & CUTOUT

4K4913 [illegible] 1 in box [illegible] ring device large open cutout, controlled by 2 side offset springs attaches to frame [illegible] exhaust pipe opening accurately machined holds pipe rigid [illegible] and attaching hardware included. 1 in carton Each $3.75

HUDSON CRANK CASE REPAIR ARM

4K4160—Heavy cast metal for repairing broken crank case arms does away with [illegible] 1 in box and carton Each $1.25

"APCO" BRAKE ROD SUPPORT

4K4685—Maintains proper [illegible] rattle without interfering with movement of brake rod easily attached. 1 set in pkg Set 65c

"COMPETITION" CUTOUT OUTFIT

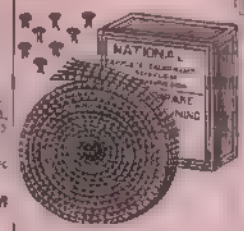
4K4650—1¼x2 in. consists of heavy iron solid back valve [illegible] steel foot pedal with [illegible] spring, cable [illegible] valve is made with [illegible] lever thus [illegible] so [illegible] erally used on valves of similar types valves carefully ground bored accurately to size and tested for defects before leaving the factory. All parts furnished in hard baked black enamel 1 outfit in carton. . . Each 85c

"RED-I-FIT" ACCELERATOR

4K5711 — Easy, steady, dependable action due to special construction, gives perfect acceleration, working independent from hand throttle and closing automatically. Easily installed. Complete with fittings 1 pkg Each $1.25

TRANSMISSION LINING SETS

3 strips cut to correct lengths with brass rivets, made without wires to prevent short circuit.

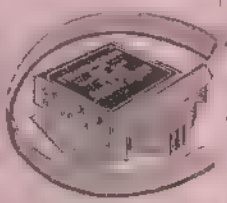


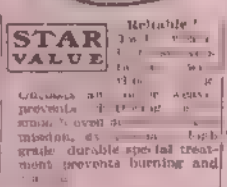
National—Twill weave, close mesh, long wearing fabric, treated to prevent burning.

4K9784—1 set in box Set, 55c

"Tufter"—Norwegian twill exceptionally durable treated to prevent burning extensively advertised.

4K9756—1 set in box, Set, 65c





STAR VALUE

Reliable [illegible] Guaranteed [illegible] prevents [illegible] smooth even [illegible] misdeals, [illegible] high grade durable special treatment prevents a burning and [illegible]

4K3795—1 set in box Set 85c

"Rusco"—90% long fiber asbestos basket weave high quality lining

4K3825—1 set in box Set, $1.35

ADAMSON'S FOOT ACCELERATOR

One piece rigid assembled malleable castings fits under cylinder head bolt, strong spring instantly cuts off gas to idling speed when released, easily installed in a few minutes by novice.

4K4667 1 in box. Each, 90c

TRANSMISSION LINING SETS

Scandinavia [illegible] ties in [illegible] made of long staple cotton [illegible] with [illegible] and [illegible] used to resist heat and wear. Complete with brass rivets for [illegible]

4K5704—1 set in box, Set $1.65

Cork Insert Cork [illegible] and smoothly [illegible] [illegible] [illegible]

FOR FORD CARS

RELIABLE TIMERS

Apco—Heavy pressed steel shell ⅛ in. clock spring, bone fiber washers, short contacts ⅞ in. mean less wear, quicker and hotter spark
4K3585—1 in box Each, 85c

STAR VALUE

De Luxe'—Brush part are a per cent. hard bone, highly polished contact plates insure perfect contacts and accurate firing
4K3410 — 1 in box Each $1.25

"Highway Oil less"—Black enameled stamped steel shell bone dry fiber ring hardened to give least wear and not absorb oil brush of special fine bronze bakelite bronze slightly curved to fit ring
4K3406—1 in box Each 95c

Anco "Shurtproof" — Nickel rollers of fiber hard bronze and longer wearing. Turns part of the cycle on a Eagle-eyed perfectly hardened gives a hotter and faster spark
4K3685—1 in box Each $1.35

Goodrich — Leather construction with adjustment, pressed steel shell, will not sparks guaranteed
4K3588—1 in box Each, $1.15

Milwaukee—All parts carefully assembled with absolute accuracy. All wearing parts are ground and polished
4K3680— Each,
6 or more, $1.50

"Perfect"—Hard steel case best fibre thrust ring, spark cover is accurately fitted and machined to meet correct perfectly guaranteed to give perfect ignition under all conditions and will not short circuit in
4K3458—1 in box Each, 85c
Lots of 10, " 80c
" 30, " 75c

"Remus" Improved — Ball contact aluminum finished brass, hard steel case, makes starting easier gives smooth running contact
4K3580—1 in carton Each, $2.10

CARBURETORS

"Kingston" Troubleproof, can be easily adjusted gives even flow of gas throttling down to walk or accelerated to highest speed
4K1456—Model L2 Standard type . . . . . Each $4 60
4K1457 New Model Brass fuel strainer and separator new feature prevents impurities from entering motor . Each $5.25

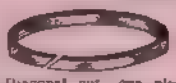
D. & B" Special — Float chamber standard type gasoline spray adjustment for use in any passage where a thorough mixture of gasoline and air is necessary to secure maximum results. Each
4K4709—1 in box . $8.50

Schebler — Model "A," automatic part carburetor furnishes automatically rich mixture for any load or speed. Complete with gasket and screws and hose wire
4K3500—1 in box $12.00

INLAND

The Inland is recognized the world over as the mechanically perfect piston ring. A complete gas tight ring in one piece gives more power to the engine, reduces carbon and increases pressure. Each in glassine envelope
4K3005—3x¼x¼
4K3010—3x¼ + .001x¼+¾₃₂x ¾
4K3020—3½ + .025x¼
4K3021— ¾ + .010x¼
Each, 87½c

PRESCOTT PISTON RINGS



Diagonal cut, one piece, individually cast and accurately ground. 1 doz. in box.

4K8271	Regular size.	Doz. $1.15
4K8272	Oversizes	
4K8273	.005 "	
4K8274	.010 "	Doz. $1.25
4K8275	.015 "	
4K8276	.025 "	
4K8277	.03125 "	

GILL PISTON RINGS

Can be furnished for any car—special order. In ordering state make, name, year & model of car on which to be used.

One piece, adjust themselves, increase power, decrease fuel consumption, prevent smoking and lessen carbon troubles. 1 in pkg Each
4K9747 Standard size 65½c
4K9748—.015 oversize 66 2c
4K9749—.03125 oversize 66½c

"K-P" PISTON RINGS

4K4480—3½x¼x⅛, 3 pieces. Is Hooked interlocking gas & heat ring in place. A set to replace for any one piston construction of ring, guaranteed not to break Each 96c

"GARCO" GASKETTE ROLL

4K7841 — Asbestos composition material 1p 10x40 in. roll can be cut into gaskets of any size, flexible, tough, resilient, heat & oil resisting, especially desirable for gasket purposes. 1 roll in box . Roll, $1.75

"APCO" CORK GASKET SET

4K4050—Pressed cork gasket set, durable, extensive assortment 15 pieces in set, 1 set in box Set 85c

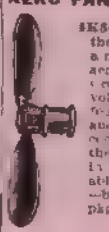
"VICTOR" GASKETS

Made of copper brass and asbestos. Whenever cylinder head of Ford car motor is removed for grinding in valves etc a new gasket is necessary and to make a new one from asbestos sheet is quite a task. 1 in pkg
4K9724—Cylinder head gasket only Each 35c
4K9728—Cylinder head gasket 1 set and exhaust pipe gaskets and transmission cover gasket set 45c

OFFICIAL ADJUSTABLE FAN BELT GUIDE

4K3691 — 1 pc. steel copper plated prevents the fan from slipping off pulley. Easily applied, no need to remove radiator or any part of car. Adjustable to any position. Adds to the life of the belt belt need not be tight. 1 in box. Each 12c

AERO FAN ASSEMBLY



4K3676 — Built on the same principle and design as aeroplane fans creates twice the volume of air as a four bladed fan and draws the cool air from the floor. Has spread durable construction—black finish. 1 in pkg Ea. $1.15

FAN AND PULLEY ASSEMBLY

4K4508 Duplicate of the regular Ford equipment
Each 90c

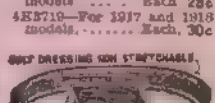
FORD NO. 3508

FAN BELTS

Patent Clamp Belt—Heavy oak tanned leather securely joined by patent clamp
4K3715—For 1916 and earlier models . . . . Each, 24c
4K3716—For 1917 and later models . . . . . Each, 27c

Quick Detachable Belt—Quick detachable type heavy oak bark tanned leather. Stands the action of mineral oil better than any other belt
4K3717—For 1916 and earlier models Each 30c
4K3718—For 1917 and later models Each 32c

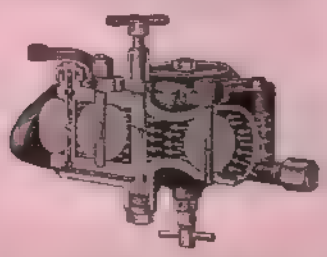
Silent Running Belt—Selected oak tanned leather oil and waterproof. Has an invisible waterproof splice
4K4680—For 1916 and earlier models . . . Each 28c
4K3719—For 1917 and 1918 models. . . . . Each, 30c



Specially Treated Fabric—Oil and waterproof reinforced switch cannot stretch guaranteed against defects.
4K3578—1916 and earlier models . . . . . Each 30c
4K3579— 1917 and later models Each 35c

Mechanical—Chain belt with leather grips, which make it impossible to stretch or slip easily installed. The most practical belt on the market especially adapted to truck use.
4K4020—For 1916 and earlier models. . . . Each. 95c
4K4021—For 1917 and later models Each, 96c

"TOQUET" CARBURETOR

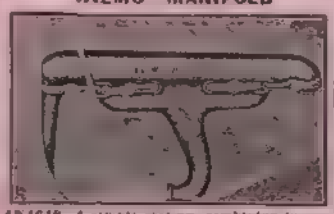


4K3749—Solid cast bronze, 1 pc. vacuum principle, atomizes perfectly, air is added to fuel at three different stages breaking it up into the smallest particles. Only 1 adjustment required same as standard Ford carburetor. Fits perfectly will not warp parts. No moving parts to get out of order easily cleaned. 1 in box Each Out

"ANCO" EVENHEAT MANIFOLD

4K9754—Fits all models of Ford cars in place of old style manifold, without cutting fitting of the new. Special gaskets. Cast in one piece, no moving parts, gives more power and mileage and insures a smooth running motor. 1 in carton Each $6.75

"WILMO" MANIFOLD



4K4648—A simple casting combining in one piece the exhaust pipe & intake manifold easy access to valve adjustments, no holes to bore and easily applied by use of a wrench. Actual tests have proven that the "Wilmo" manifold gives more miles per gallon of gasoline less carbon trouble and adds engine run smoother, extensively advertised in leading Motor Magazines. 1 in carton with complete directions for installing Each $6.67

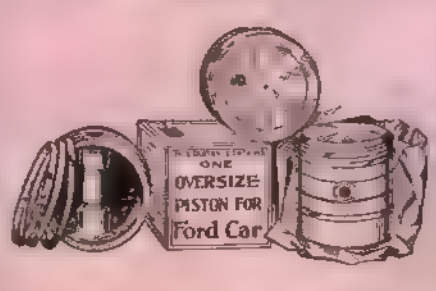
GRAY IRON PISTONS

Accurately machined. Give increased power and speed. Wrapped in oil paper and packed in mirror fire carton.

Fine grade of soft gray iron. Light in construction, averaging 2¼ lbs. a Ford motor equipped with four pistons of the same weight and of light weight, and smooth running motor overcome many bearing troubles, give increased power and speed, complete with rings and wrist pin. Wrapped in oil paper. 1 in carton

4K4761—Standard size.
4K8262— .0025 oversize.
4K8263— .03125 oversize.

Each. $1.65
6 or more, " $1.50



COMPLETE CONNECTING ROD

You cannot duplicate this price anywhere in today's market

4K8805—Highest grade material, superior to most rods on the market and equal to any, interchangeable with regular Ford rod. Complete with babbitt bearing. 1 in box Each, $1.25
Lots of 6 or more, " $1.15

WALDEN AUTOMOBILE TOOLS

COMBINATION SOCKET WRENCH SETS

An entirely new line of sets. Sockets are steel, machine turned from the bar and broached accurately to size. Inside depth of socket ⅛-inch more than thickness of the nut. Ratchet wrench an improved design, simple, strong and reliable. All parts are machine finished to size and designed to give the user the best that can be produced in combination socket wrench sets.

Sets Nos. 8, 16 and 27 are each packed in tool boxes as illustrated. Boxes are hardwood, oil finish, made extra thick and with substantial hinges unlike the usual set box.

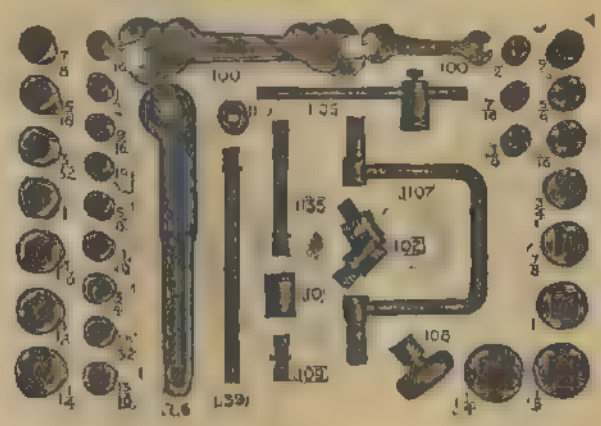
COMBINATION SET

No. 516—9-inch ratchet wrench.
No. 1139—9-inch extension bar.
No. 1102—Universal joint
7 Sockets—Hexagonal, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼-inch.
1 Socket—Square, ⅞-in.
Assortment particularly selected to fit Ford cars.
Box, 10⅜x4⅜x2⅝-inch.
Weight, 5½ lbs.
No. 8 .....Per set $9.00

COMBINATION SET

No. 516—9-inch ratchet wrench
No. 1139—9-inch extension bar.
No. 1102—Universal joint
16 Sockets—Hexagonal, ⅜, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾, 1⅞, 2, 2⅛, 2¼-inch.
Assortment covers all the various bolt and nut standards
Box, 12x5¼x2⅝-inch.
Weight, 9½ lbs.
No. 16.....Per set $13.20

COMBINATION SET



No. 716—12-inch ratchet wrench.
No. 1139—9-inch extension bar.
No. 1104—Combination T and offset wrench.
No. 1102—Universal joint.
No. 1178—Brace socket wrench.
No. 1109—Plug connector.
No. 1110—Socket connector (2).
16 Hexagonal Sockets—⅜, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾, 1⅞, 2, 2⅛, 2¼-inch.
11 Square Sockets—⅝, ¾, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼-inch.

No. 100 set—5 open end wrenches. Box, 16x10x2⅞-inch. Weight, 22 lbs.

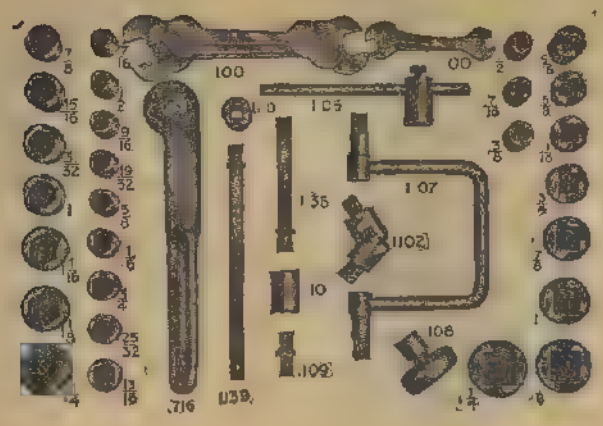
No. 27 .....Per set $24.20

OPEN END WRENCH SET

Thin stamped wrenches are most useful in many places. Special steel used to give strength and wearing qualities. Sizes are shown on illustration. Sold in sets only.

No. 100—5 wrenches.
Per set $1.65

WALDEN AUTOMOBILE TOOLS
COMBINATION WRENCH PARTS AND SOCKETS



Universal joints are solid steel, full machined finish, used in combination with ratchet wrench extension bars and sockets working successfully at 45 degree angle.

No. 1102 ..... **Each $1.65**

Brace wrench, length over all 9¾-inch, sweep 10-inch. For use with various sockets and combination parts. Ends of brace are provided with ball friction to hold parts in engagement.

No. 1107 ..... **Each $1.10**

Brace top, a pressed steel handle, working on cone bearing and provided with socket end to fit brace wrench and various combination parts. Valuable auxiliary with extension bar ratchet wrench and socket on overhead work—millwrights particularly will appreciate this attachment and combination.

No. 1108 ..... **Each $0.55**

Brace wrench with top handle. When ordering complete tool please use this number—1178.

No. 1178 ..... **Each $1.65**

Extension bars, also shanks, for combination tee and offset handle No. 1105 bars have ball friction on either end to retain sockets and other parts in engagement.

No. 1135—5-inch ..... **Each $0.44**

No. 1139—9-inch ..... " .55

Combination tee and offset handle wrench with extension (1135). The knurled set screw allows for use of the handle in any position. The shank or extension bar (1135) is removable. The ball friction on both ends to couple combination parts or sockets.

No. 1104 ..... **Each $0 99**

Combination tee and offset handle. This number covers the handle only as illustrated. If complete tool is wanted order No. 1104.

No. 1105 ..... **Each $0.55**

Plug connector. Square bar connector, with ball friction on each end for coupling combination parts.

No. 1109 ..... **Each $0.33**

Socket connector. Round socket with ¼-inch square hole for coupling combination parts.

No. 1110 ..... **Each $0.33**

SOCKETS

Introducing an entirely new line-up on sockets. Sockets are machine made from the solid bar. Broaching depth is the thickness of the nut to be fitted, and broached ⅛-inch over the size of the nut. Sockets are counter drilled, making extreme bolt size depth of socket ⅛-inch more than the thickness of the nut. The outside diameter of the socket size and taper have been designed to insure strength and service conditions. The broached end is countersunk slightly to relieve the square edges and to allow more rapid placing of socket on bolt head.

SOCKET STOCK NUMBERS		SOCKET SIZES	SIZES SCREW-BOLT-NUTS			
Square	Hexagonal		S.A.E. Nuts Cap Screws	U.S. Stan Nuts	U.S. Cap Screws	U.S. Bolt Heads Stay Unfinished
114	214	7/16	1/4		1/4	
116	216	1/2	5/16	1/4	5/16	1/4
118	218	9/16	3/8		3/8	
	219	19/32		5/16		5/16
120	220	5/8	7/16		7/16	
122	222	11/16		3/8		3/8
124	224	3/4	1/2		1/2	
	225	25/32		7/16		7/16
	226	13/16			9/16	
128	228	7/8	9/16	1/2	5/8	1/2
	230	15/16	5/8			1
	231	31/32		9/16		9/16
132	232	1	11/16		3/4	
	234	1 1/16	3/4	5/8		5/8
136	236	1 1/8			7/8	
140	240	1 1/4	7/8	3/4	1	3/4

SQUARE SOCKETS

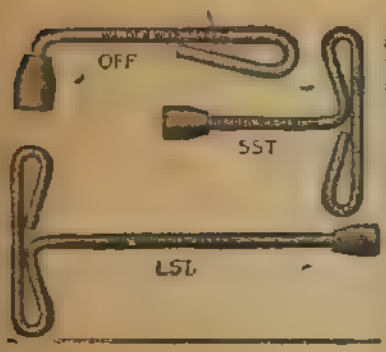
Nos.	Sizes	Each
114 to 118	7/16 to 9/16	$0 33
120 and 122	5/8 to 11/16	.44
124 to 140	3/4 to 1¼	.66

HEXAGONAL SOCKETS

Nos.	Sizes	Each
214 to 222	7/16 to 11/16	$0 33
224 to 230	3/4 to 15/16	.44
231 to 240	31/32 to 1¼	.55

WALDEN AUTOMOBILE TOOLS

TEE AND OFFSET HANDLE SOCKET WRENCHES



Wire handle construction and machine turned sockets make it possible to produce an equally well made and serviceable tool at much less cost than usual drop forged wrenches. Sockets are steel, machine turned from solid bar and broached accurately to size. Wire handles are proper size and class of material to guarantee service. Sockets are so fastened to the wire they will not turn or loosen

Offset socket wrenches. Handles 7 inches. 10 sizes as listed.

No. 2500 Series—All sizes.
Each **$0.50**

Short shank tee handle wrenches. Handle 6 inches. Shank 6 inches. 10 sizes as listed.

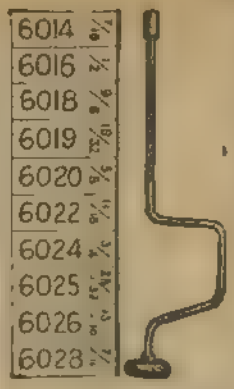
No. 2600 Series—All sizes.
Each **$0.55**

Long shank tee handle wrenches. Handle 6 inches. Shank 12 inches. 10 sizes as listed.

No. 2700 Series—All sizes.
Each **$0.60**

SIZE	OFF	SST	LST
3/16	2514	2614	2714
1/2	2516	2616	2716
9/16	2518	2618	2718
19/32	2519	2619	2719
5/8	2520	2620	2720
11/16	2522	2622	2722
3/4	2524	2624	2724
25/32	2525	2625	2725
13/16	2526	2626	2726
7/8	2528	2628	2728

SPEED WRENCHES



Long shank brace socket wrenches are used as speed tools in assembling and dismantling cars. Are most efficient when used on a series of the same sized nuts as on cylinder heads. To gain the most time in removing nuts first release the nut with an offset socket wrench then spin nut off with brace or speed wrench. These tools are big time savers and considered indispensable in garages where they have been tried.

No. 6000 Series—All sizes....Each $0.88

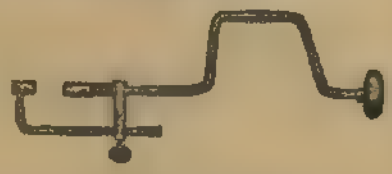
Speed Wrench Set

This set includes one each of the ten sizes above.

No. 600—Complete **$8.80**

NUT AND BOLT SPEED WRENCHES

A one man tool. The extension socket holds either the nut or bolt head while the operator spins it off. Extension arm is adjustable for different bolt lengths.



Socket sizes, ½-inch hexagon and ⅝-inch hexagon. Length over all, 20⅝-inch. Will fit the following: Rear axle housing bolt and nut.

No. 6316 .....**Each $3.00**

Socket sizes, ⅞-inch hexagon and ⅞-inch hexagon. Length over all, 20⅝-inch. Will fit the following: Ball socket, bolt and nut; crank case arm, bolt and nut (side); steering post bracket, bolt and nut; steering yoke clamp, bolt and nut; transmission cover, bolt and nut.

No. 6318 .....**Each $3.00**

DISPLAY BOARDS

This free display board is a great salesman. Sizes are plainly marked on the board and on the wrenches. Every mechanic has need for one or more of these tools and this attractive display in your store will make the sales. The face of the board is covered with sheet metal which is handsomely lithographed in black and golden rod; a fine setting for the finished wrenches. Walden-Worcester wire handle socket wrenches are recognized standards for service.

Ten Sizes—Hexagonal—Sockets

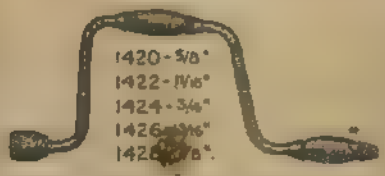
50	Offset wrenches	$0.50	$25.00
50	S. S. tee wrenches	.55	27.50
50	L. S. tee wrenches	.60	30.00
150	Wrenches	Total	$82.50

Complete With Display Board

Board and hooks (crated), lbs.	60
Wrenches boxed for shipment, lbs.	170
Wrenches net, lbs.	147
Size of board, feet	6x2

No. 180—150 wrenches with board.$82.50

BRACE RIM WRENCHES



This is the popular type of wrench for use on demountable rims. The steel sockets are machine turned and broached accurately to size and so fastened to the wire that they cannot turn (no pins to shear off). The swivel handles are pressed steel. There is only one size nut on any rim so that this solid handle tool fills all requirements (no loose socket to be misplaced). Tire changes are emergency work and dependable tools are worth all they cost.

No. 1400 Series—All sizes.....**Each $1.10**

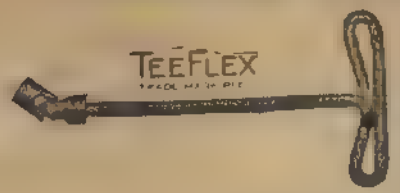
RATCHET WRENCHES

¼-inch square opening 9-inch and 12-inch lengths. The special type of pawl reduces tension in backing up wrench, also gives maximum strength and always positive smooth action. The ratchet action is reversed by turning over the wrench, eliminating complicated reversing mechanism which also would reduce strength and positive action of the tool—only three working parts which are made of high grade steel and properly tempered.

No. 516— 9-inch .....**Each $2.75**
No. 716—12-inch ..... **" 3.30**

WALDEN AUTOMOBILE TOOLS

UNIVERSAL JOINT TEE HANDLE WRENCHES

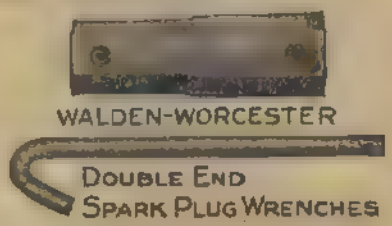


Tee Flex universal joints and sockets have been used in combination with wrenches, and are now complete in one solid tool. Will reach nuts otherwise inaccessible.

No. 1016	⅛-inch
No. 1018	7/32-inch
No. 1020	5/16-inch
No. 1022	11/32-inch
No. 1024	¾-inch

No. 1000 Series—All sizes ..... Each $2 50

DOUBLE END SPARK PLUG WRENCHES



Pressed steel. Case hardened two sizes in one. ⅛-inch over size of spark plug, which prevents stretching, and gives better outside clearance where plugs set in port plugs or deep in block.

No. 2933	57/64-inch—1-1/64-inch
No. 2937	57/64-inch—1-9/64-inch
No. 3137	61/64-inch—1-9/64-inch
No. 2931	57/64-inch— 61/64-inch

All sizes ..... Each $0.55

SPARK PLUG WRENCHES

No. 2933

A-C "Cico"
A-C "Titan"
All in One
A. V. Regular
Benton
Bethlehem
Breech Block
Brown
Derf
Fohat
Herz Bougie Mercedes
Mosler
Norwalk
Perfection
Red Head
Sootless
Splitdorf

No. 2037

A. C. (Old Style)
Benford's Golden Giant Monarch
Bergie National
Bethlehem
Bosch
Jumbo Giant
Leader "Giant"
Metzger
Miller
Premier
Reliance
Rex Lion
Spitfire
Splitdorf
Splitdorf
Sterling
Stewart "V-Ray"
Vital
Viking

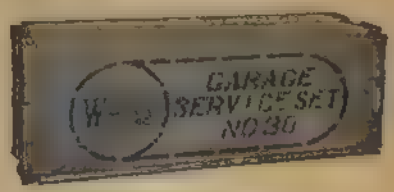
No. 3137

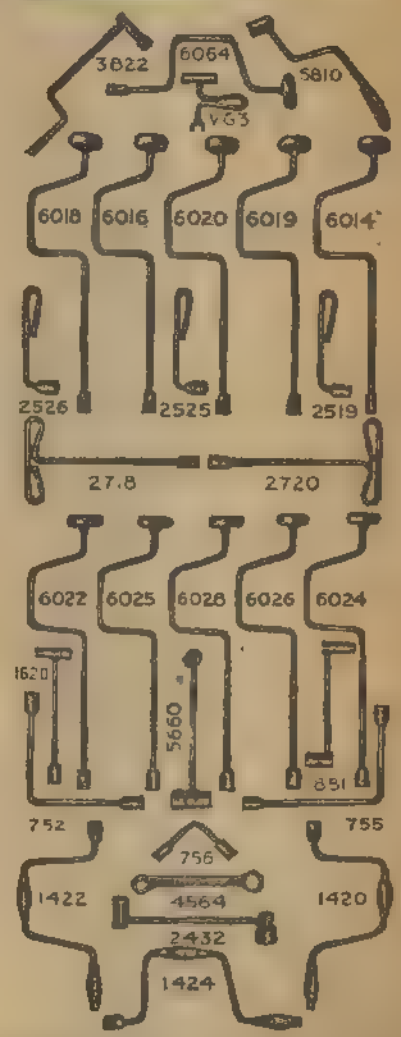
A. C. (Old Style)
Auburn
Benford's Golden Giant Monarch
Bergie National
Bosch
Jumbo Giant
Leader "Giant"
Miller
Rex Lion
Splitdorf
Splitdorf
Sterling
Stewart "V-Ray"
Viking
Vital

No. 2931

All in One
Auburn "Ford Size"
Auburn "Long Henry"
Benton
B. G. Nonshortable
Breech Block
Brown
Champion "O"
Champion "Toledo"
Champion "X"
Harvard
Liberty
Mosler
Mosler Superior
Perfection
Rajah
Red Head
Reflex
Splitdorf
Symonds

GARAGE SERVICE SET





A wrench assortment perfectly adapted for work on any motor car, with which time and labor cost to the customer may be economized, and the productiveness of the shop and its facilities largely increased.

These are special tools, designed after careful study of garage service, each serving a specific purpose and having qualities necessary for thoroughly good work.

These 30 wrenches, some with two sockets, are equivalent to 39 different sizes and types, as follows:

Offset wrenches	13
Speed wrenches	10
L-wrenches	6
Special wrenches	6
Demountable rim wrenches	3
Tee-handle wrenches	2
Total	39

In wooden tool box. Weight, 41 lbs.

No. 30 ..... $24.00

WALDEN AUTOMOBILE TOOLS

INDIVIDUAL CAR SETS

These sets are especially designed for car owner use.

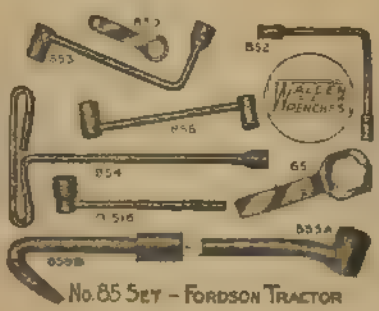
No. 39	Chevrolet	$4 75
No. 44	Buick	3.80
No. 49	Maxwell	4 55
No. 57	Ford	4 55
No. 65	Dodge	3 00
No. 75	Overland	2 80
No. 76	Overland Four	3.65

FORDSON TRACTORS

These wrenches will be found to answer the demands of either farmer or expert repair man in making repairs and adjustments on Fordson tractors in quickest possible time

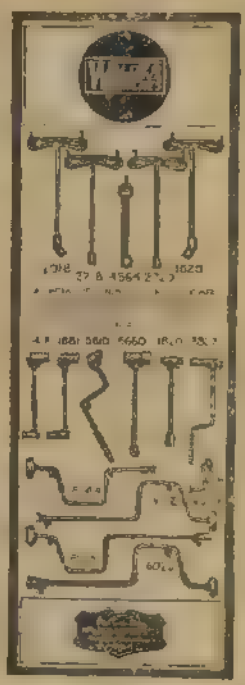
No. 85—Weight, 13½ lbs.

Per set $8.80



No. 85 Set – Fordson Tractor

FOR FORD CARS



These free display boards have wooden backs, the front is of sheet metal handsomely lithographed in black and golden rod, the hooks are held by nut and check nut and there is no possibility of the board warping out of shape. An ornament to any store and a valuable sales producer. Size, 6x2 feet.

5	1620	$0 70	$ 3.50
5	5810	.55	2 75
5	2718	.60	3.00
5	2720	.60	3.00
5	4564	1.30	6.50
5	2418	.80	4.00
5	1018	2 50	12.50
5	1020	2 50	12.50
5	6004	.77	3.85
5	6018	88	4.40
5	6020	88	4.40
5	VG-2	.88	4.40
5	VG-3	.55	2 75
5	5660	1.20	6 00
5	1881	1.10	5 50
5	3822	.66	3 30
80 Wrenches			$82.35

Board and hooks (crated), lbs..... 50
Wrenches boxed for shipment, lbs.. 103
Wrenches net, lbs..... 85

No. 80—80 wrenches with board...$80.00

DIRECTORY OF WRENCHES FOR FORDSON TRACTORS

Clutch housing bolt	852
Clutch lever bracket bolt	856
Clutch shaft nut	851
Connecting rod cap bolt nut	856
Crank case bolt	856
Crank case nut	856
Crank shaft bearing cap bolt nut (main bearing nut)	853
Cylinder front cover bolt	856
Cylinder front cover cap screw	856
Cylinder head cap screw	856
Dash cap screw	853
Differential housing bolt	856
Differential housing	856-B
Exhaust tube bracket bolt	852
Fan adjusting nut and screw	850
Foot bracket cap screw	854
Front wheel spindle nut	855-A
Fuel tank strap nut	856
Gear shifter plate cap screw	854
Radiator connection bolt	856
Radiator connection bolt nut	856
Radiator cover bolt	856
Radiator cover bolt nut	856
Radiator tank bolt	852
Radiator tank bolt nut	852
Radiator top tank cap screw	854
Radius rod bolt nut	01516
Rear axle housing cap screw	853
Rear axle split	856 855-B
Rear wheel hub cap screw	856-A-B
Steering arm ball nut	01516
Steering arm nut	855-A
Steering shaft nut	01516
Steering wheel nut	850-01516
Transmission housing bolt	856
Transmission housing bolt nut	856
Transmission housing cap screw	856
Transmission draw bar cap screw	853
Transmission housing plate cap screw	856
Transmission oil plug	855-A

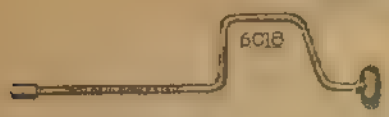
WALDEN AUTOMOBILE TOOLS

DIRECTORY OF WRENCHES FOR FORD CARS

Axle housing bolt and nut.....6064-1620
Ball socket bolt and nut.....6018
Body bracket bolt nut.....5660
Brake adjusting nut.....4564
Brake reverse support bolt nut.....2418
Brake shoe support nut.....2418
Carburetor flange bolt and nut.....1018
Clutch pedal support bolt nut.....2418
Commutator case support bolt.....2718-6018
Commutator case support bolt (on self starter cars)....2720-6020
Connecting rod cap bolt nut.....5810-1020
Controller shaft, bracket bolt nut.....2418
Crank case arm bolt and nut (side).....2418
Crank case arm bolt and nut (top).....2418
Crank case and cylinder cover cap screw.....6018-2718
Crank case lower cover screw.....6064
Crank shaft bearing bolt.....1881
Crank shaft bearing bolt center and front.....1881-2418
Crank shaft bearing bolt nut.....2418
Cylinder cover bolt nut.....2718
Cylinder cover cap screw.....2718-6018
Cylinder cover cap screw (cars with self starter).....2720-6020
Cylinder head cap screw.....1620-6020
Cylinder valve cover, stud nut.....1018
Dash bracket to dash bolt nut.....6064-1620
Differential case stud nut.....2418
Differential drive gear screw.....6064
Drive shaft roller bearing, stud nut.....2720-1620
Fan adjusting screw.....2718-6018
Fan bracket bolt.....2418
Fly wheel cap screw.....3822
Front fender iron bolt nut (side).....2418
Front fender iron bolt nut (bottom).....2418
Front radius rod nut.....5660
Front and rear spring hanger nut.....5660
Front spring clip nut.....2418
Front spring perch nut.....5660
Hub brake rod support, bolt and nut.....1620
Hub bolt nut.....6022-5660
Inlet and exhaust clamp stud nut.....1018-2418
Magnet bolt.....6718-2718
Muffler rod nut.....6064-6018
Piston pin lock screw.....1881
Radiator stud nut.....2718
Radius rod bolt and nut.....5660
Rear hub lock nut (late models).....2432
Rear hub lock nut.....5660
Rear spring clip nut.....5660
Reverse adjusting nut.....4564
Running board, bolt nut.....1881
Running board to fender, bolt nut.....1881
Spindle bolt nut.....2418
Spindle bolt with oiler.....5660
Spindle connecting rod bolt and nut.....5660
Spindle connecting rod bolt with oiler.....5660
Steering post bracket, bolt nut.....2418
Steering tube flange bolt nut.....6064
Steering yoke clamp bolt and nut.....2418
Transmission cover bolt and nut.....6018
Universal ball cap, bolt and nut.....1018-2718
Universal ball cap screw.....2418-1018
Water cylinder inlet connection, cap screw.....1620
Water cylinder outlet, connection, cap screw.....1620

WALDEN AUTOMOBILE TOOLS

INDIVIDUAL WRENCHES FOR FORD CARS

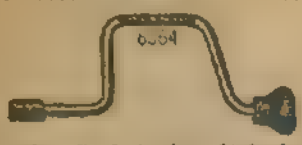


Long shank, 11-inch, brace speed tool. Overall length 19¼-inch Socket size ⅞-inch. Used on:
Commutator case support bolt.
Crank case and cylinder cover cap screw.
Cylinder cover cap screw.
Fan adjusting screw and nut.
Magnet bolts.
Transmission cover bolt and nut.

No. 6018 ..... **Each $0.88**

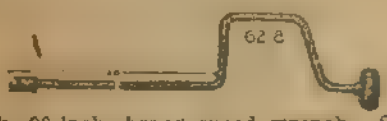
Long shank, 11-inch, brace speed tool. Over all length, 19¼-inch Socket size, ⅝-inch. Used on:
Commutator case support bolt. On cars with self starters.
Cylinder cover cap screw. On cars with self starter
Cylinder head cap screws.

No. 6020 ..... **Each $0.88**



Short speed wrench. Socket size, ½-inch hexagon. Length over all, 12⅜-inch. Will fit the following:
Crank case, lower cover screw.
Differential drive gear case.
Muffler rod nut.
Rear axle housing, bolt and nut.
Steering tube flange, bolt and nut.

No. 6064 ..... **Each $0.77**



Long shank, 20-inch, brace speed wrench. Socket size, ⅞-inch. Over all length 28 inch. Used on
Front fender iron bolt nut, side.
Radiator stud nut.

No. 6218 ..... **Each $1.10**

NUT AND BOLT SPEED

A one-man tool. The extension socket holds either the nut or bolt head while the operator spins it off. Extension arm is adjustable for different bolt lengths.
Socket sizes, ½-inch hexagon and ½-inch hexagon. Length over all, 20⅜-inch. Will fit the following:
Rear axle housing bolt and nut.

No. 6316 ..... **Each $3.00**

Socket sizes, ⅞-inch hexagon and ⅞-inch hexagon. Length over all, 20⅜-inch. Will fit the following:
Ball socket, bolt and nut.
Crank case arm, bolt and nut, side.
Steering post bracket, bolt and nut.
Steering yoke clamp, bolt and nut.
Transmission cover, bolt and nut.

No. 6318 ..... **Each $3.00**

TEE FLEX

Universal joints and sockets have been used in combination with wrenches and are now complete in one solid tool. Will reach nuts otherwise inaccessible.

Socket size, ½-inch hexagon. Length over all, 13¼-inch. Will fit the following:
Crank case, lower cover screw.
Dash bracket to dash, bolt nut.
Muffler rod nut.
Steering tube flange, bolt nut.

No. 1016 ..... **Each $2.50**

Socket size, ⅞-inch hexagon. Length over all, 13¼-inch. Will fit the following:
Carburetor flange, bolt and nut.
Commutator case support bolt.
Cylinder valve cover stud nut.
Inlet and exhaust clamp, stud nut.
Universal ball cap, bolt and nut.
Universal ball cap, cap screw.

No. 1018 ..... **Each $2.50**

Socket size, ⅝-inch hexagon. Length over all, 13¼-inch. Will fit the following:
Connecting rod cap nut.
Cylinder head cap screw.
Water cylinder inlet connections, cap screw.

No. 1020 ..... **Each $2.50**

VALVE GRINDERS

Short valve grinder wrench—all steel. The original wire handle valve grinder re-designed with ⅝-inch bar handle, which swivels on cone bearing. The fork end fits the head perfectly.

No. VG3 ..... **Each $0.55**

Long shank brace grinder wrench. Some garage men prefer the brace grinder in place of short grinder VG3. Fork end flexible and will reach all valves, including one under the dashboard.

No. VG2 ..... **Each $0.85**

WALDEN AUTOMOBILE TOOLS

COMBINATION SOCKET WRENCH SETS

An entirely new line of sets Sockets are steel, machine turned from the bar and broached accurately to size. Inside depth of socket ½-inch more than thickness of the nut. Ratchet wrench an improved design, simple, strong and reliable. All parts are machine finished to size and designed to give the user the best that can be produced in combination socket wrench sets.

Sets Nos. 8, 16 and 27 are each packed in tool boxes as illustrated. Boxes are hardwood, oil finish, made extra thick and with substantial lunges unlike the usual set box.

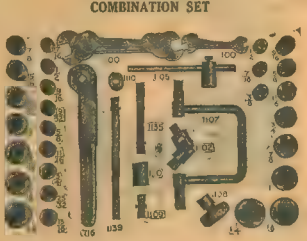
COMBINATION SET

No. 516—9-inch ratchet wrench.
No. 1139—9-inch extension bar.
No. 1102—Universal joint
7 Sockets — Hexagonal, ½, ⅝, ¾, ⅞, 1-inch.
1 Socket—Square, ½-in.
Assortment particularly selected to fit Ford cars.
Box, 10⅝x4⅜x2⅝-inch.
Weight, 5½ lbs.
No. 8 .....Per set $9.90

COMBINATION SET

No. 516—9-inch ratchet wrench
No. 1139—9-inch extension bar.
No. 1102—Universal joint
16 Sockets Hexagonal, ⅜, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾, 1⅞, 2-inch.
Assortment covers all the various bolt and nut standards
Box 12x5¼x2⅝-inch.
Weight, 9½ lbs
No. 16.....Per set $13.20

COMBINATION SET



No. 716—12-inch ratchet wrench.
No. 1139—9-inch extension bar.
No. 1104—Combination T and offset wrench.
No. 1102—Universal joint.
No. 1178—Brace socket wrench.
No. 1109—Plug connector.
No. 1110—Socket connector (2).
16 Hexagonal Sockets—⅜, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾, 1⅞, 2-inch.
11 Square Sockets—⅜, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1¾-inch.

No. 100 set—5 open end wrenches. Box, 16x10x2⅞-inch. Weight, 22 lbs.

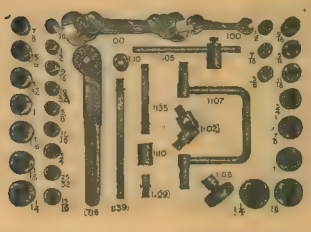
No. 27 .....Per set $24.20

OPEN END WRENCH SET

Thin stamped wrenches are most useful in many places. Special steel used to give strength and wearing qualities. Sizes are shown on illustration. Sold in sets only.

No. 100—5 wrenches.
Per set $1.65

WALDEN AUTOMOBILE TOOLS
COMBINATION WRENCH PARTS AND SOCKETS



Universal joints are solid steel, full machined finish, used in combination with ratchet wrench extension bars and sockets working successfully at 45 degree angle.

No. 1102 ..... Each $1.65

Brace wrench, length over all 9¾-inch, sweep 10-inch. For use with various sockets and combination parts. Ends of brace are provided with ball friction to hold parts in engagement.

No. 1107 ..... Each $1.10

Brace top, a pressed steel handle, working on cone bearing and provided with socket end to fit brace wrench and various combination parts. Valuable auxiliary with extension bar ratchet wrench and socket on overhead work—millwrights particularly will appreciate this attachment and combination.

No. 1108 ..... Each $0.55

Brace wrench with top handle. When ordering complete tool please use this number—1178.

No. 1178 ..... Each $1.65

Extension bars, also shanks, for combination tee and offset handle No. 1105 bars have ball friction on either end to retain sockets and other parts in engagement.

No. 1135—5-inch ..... Each $0.44

No. 1139—9-inch ..... " .55

Combination tee and offset handle wrench with extension (1135). The knurled set screw allows for use of the handle in any position. The shank or extension bar (1135) is removable. The ball friction on both ends to couple combination parts or sockets.

No. 1104 ..... Each $0.99

Combination tee and offset handle. This number covers the handle only as illustrated. If complete tool is wanted order No. 1104.

No. 1105 ..... Each $0.55

Plug connector. Square bar connector, with ball friction on each end for coupling combination parts.

No. 1109 ..... Each $0.33

Socket connector. Round socket with ⅛-inch square hole for coupling combination parts.

No. 1110 ..... Each $0.33

SOCKETS

Introducing an entirely new line-up on sockets. Sockets are machine made from the solid bar. Broaching depth is the thickness of the nut to be fitted, and broached ¼-inch over the size of the nut. Sockets are counter drilled, making extreme bolt size depth of socket ⅛-inch more than the thickness of the nut. The outside diameter of the socket size and taper have been designed to insure strength and service conditions. The broached end is countersunk slightly to relieve the square edges and to allow more rapid placing of socket on bolt head.

Walden Numbers		SIZES SCREW-BOLT-NUTS			
SOCKET STOCK NUMBERS	SOCKET SIZES	S.A.E. (Coarse Thread)	U.S. Standard Nuts	U.S. Cap Screws	U.S. Bolt Heads (Std. Semi-Finish)
Square Recessed					
114	214	7/16	7/16	7/16	
116	216	1/2	1/2	1/2	1/2
118	218	9/16	9/16	9/16	9/16
	219	19/32			
120	220	5/8	5/8	5/8	5/8
122	222	11/16			
124	224	3/4	3/4	3/4	3/4
	225	25/32			
	226	13/16		13/16	13/16
128	228	7/8	7/8	7/8	7/8
	230	15/16	15/16	15/16	15/16
	231	31/32			
132	232	1	1	1	1
	234	1 1/16			
136	236	1 1/8	1 1/8	1 1/8	1 1/8
140	240	1 1/4	1 1/4	1 1/4	1 1/4

SQUARE SOCKETS

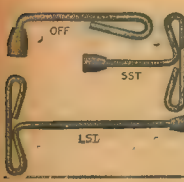
Nos.	Sizes	Each
114 to 118	7/16 to 9/16	$0.33
120 and 122	5/8 to 11/16	.44
124 to 140	3/4 to 1 1/4	.66

HEXAGONAL SOCKETS

Nos.	Sizes	Each
214 to 222	7/16 to 11/16	$0.33
224 to 230	3/4 to 15/16	.44
231 to 240	31/32 to 1 1/4	.55

WALDEN AUTOMOBILE TOOLS

TEE AND OFFSET HANDLE SOCKET WRENCHES



Wire handle construction and machine turned sockets make it possible to produce an equally well made and servicable tool at much less cost than usual drop forged wrenches. Sockets are steel, machine turned from solid bar and broached accurately to size. Wire handles are proper size and class of material to guarantee service. Sockets are so fastened to the wire they will not turn or loosen.

Offset socket wrenches. Handles 7 inches. 10 sizes as listed.

No. 2500 Series—All sizes. Each $0.50

Short shank tee handle wrenches. Handle 6 inches. Shank 6 inches. 10 sizes as listed.

No. 2600 Series—All sizes. Each $0.55

Long shank tee handle wrenches. Handle 6 inches. Shank 12 inches, 10 sizes as listed.

No. 2700 Series—All sizes. Each $0.60

SIZE	- OFF	SST	LST
7/16	2514	2614	2714
1/2	2516	2616	2716
9/16	2518	2618	2718
19/32	2519	2619	2719
5/8	2520	2620	2720
21/32	2522	2622	2722
3/4	2524	2624	2724
25/32	2525	2625	2725
13/16	2526	2626	2726
7/8	2528	2628	2728

DISPLAY BOARDS

This free display board is a great salesman. Sizes are plainly marked on the board and on the wrenches. Every mechanic has need for one or more of these tools and this attractive display in your store will make the sales. The face of the board is covered with sheet metal which is handsomely lithographed in black and golden rod; a fine setting for the finished wrenches. Walden-Worcester wire handle socket wrenches are recognized standards for service.

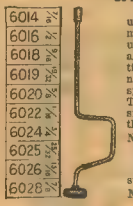
Ten Sizes—Hexagonal—Sockets

50	Offset wrenches	$0.50 $25.00
50	S. S. tee wrenches....	.55 27.50
50	L. S. tee wrenches....	.60 30.00
150	Wrenches	Total $82.50

Complete With Display Board

Board and hooks (crated), lbs..... 60
Wrenches boxed for shipment, lbs.. 170
Wrenches net, lbs..... 147
Board, feet..... 6x2
No. 180—150 wrenches with board..$82.50

SPEED WRENCHES



Long shank brace socket wrenches are used as speed tools in assembling and dismantling cars. Are most efficient when used on a series of the same sized nuts as on cylinder heads. To gain the most time in removing nuts first release the nut with an offset socket wrench then spin nut off with brace or speed wrench. These tools are big time savers and considered indispensable in garages where they have been tried.

No. 6000 Series—All sizes....Each $0.88

Speed Wrench Set

This set includes one each of the ten sizes above.

No. 600—Complete $8.80

NUT AND BOLT SPEED WRENCHES

A one man tool. The extension socket holds either the nut or bolt head while the operator spins it off. Extension arm is adjustable for different bolt lengths.

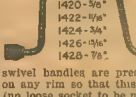
Socket sizes, ½-inch hexagon and ¼-inch hexagon. Length over all, 20⅝-inch. Will fit the following: Rear axle housing bolt and nut.

No. 6316 ..... Each $3.00

Socket sizes, 7/16-inch hexagon and 7/16-inch hexagon. Length over all, 20⅝-inch. Will fit the following: Ball socket, bolt and nut; crank case arm, bolt and nut (side); steering post bracket, bolt and nut; steering yoke clamp, bolt and nut; transmission cover, bolt and nut.

No. 6318 ..... Each $3.00

BRACE RIM WRENCHES

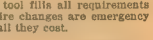


This is the popular type of wrench for use on demountable rims. The steel sockets are machine turned and broached accurately to size and so fastened to the wire that they cannot turn (no pins to shear off). The swivel handles are pressed steel. There is only one size nut on any rim so that this solid handle tool fills all requirements (no loose socket to be misplaced). Tire changes are emergency work and dependable tools are worth all they cost.

No. 1400 Series—All sizes..... Each $1.10

RATCHET WRENCHES

¼-inch square opening 9-inch and 12-inch lengths. The special type of pawl reduces tension in backing up wrench, also gives maximum strength and always positive smooth action. The ratchet action is reversed by turning over the wrench, eliminating complicated reversing mechanism which also would reduce strength and positive action of the tool—only three working parts which are made of high grade steel and properly tempered.



No. 516—9-inch ..... Each $2.75
No. 716—12-inch ..... " 3.30

WALDEN AUTOMOBILE TOOLS

UNIVERSAL JOINT TEE HANDLE WRENCHES

Tee Flex universal joints and sockets have been used in combination with wrenches, and are now complete in one solid tool. Will reach nuts otherwise inaccessible.

No. 1016	⅜-inch
No. 1018	½-inch
No. 1020	⅝-inch
No. 1022	¾-inch
No. 1024	⅞-inch

No. 1000 Series—All sizes ..... Each $2.50

DOUBLE END SPARK PLUG WRENCHES

Pressed steel. Case hardened—two sizes in one. 1/32-inch over size of spark plug, which prevents stretching, and gives better outside clearance where plugs set in port plugs or deep in block.

No. 2933	57/64-inch—1-1/64-inch
No. 2937	57/64-inch—1-9/64-inch
No. 3137	61/64-inch—1-9/64-inch
No. 2931	57/64-inch— 61/64-inch

All sizes ..... Each $0.55

SPARK PLUG WRENCHES

No. 2933

A-C "Cico"
A-C "Titan"
All in One
A. V. Regular
Benton
Bethlehem
Breech Block
Brown
Derf
Fobat
Herz Bougie Mercedes
Mosler
Norwalk
Perfection
Red Head
Sootless
Splitdorf

No. 2937

A. C. (Old Style)
Benford's Golden Giant Monarch
Bergie National
Bethlehem
Bosch
Jumbo Giant
Leader "Giant"
Metzger
Miller
Premier
Reliance
Rex Lion
Spitfire
Splitdorf
Splitdorf
Sterling
Stewart "V-Ray"
Vital
Viking

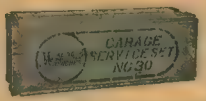
No. 3137

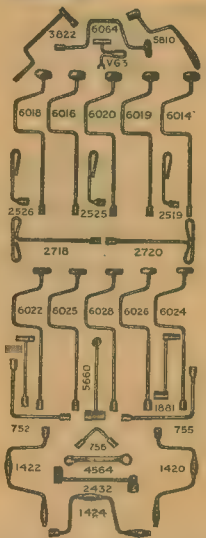
A. C. (Old Style)
Auburn
Benford's Golden Giant Monarch
Bergie National
Bosch
Jumbo Giant
Leader "Giant"
Miller
Rex Lion
Splitdorf
Splitdorf
Sterling
Stewart "V-Ray"
Viking
Vital

No. 2931

All in One
Auburn "Ford Size"
Auburn "Long Henry"
Benton
B. G. Nonshortable
Breech Block
Brown
Champion "O"
Champion "Toledo"
Champion "X"
Harvard
Liberty
Mosler
Mosler Superior
Perfection
Rajah
Red Head
Reflex
Splitdorf
Symonds

GARAGE SERVICE SET





A wrench assortment perfectly adapted for work on any motor car, with which time and labor cost to the customer may be economized, and the productiveness of the shop and its facilities largely increased.

These are special tools, designed after careful study of garage service, each serving a specific purpose and having qualities necessary for thoroughly good work.

These 30 wrenches, some with two sockets, are equivalent to 39 different sizes and types, as follows:

Offset wrenches	13
Speed wrenches	10
L-wrenches	6
Special wrenches	5
Demountable rim wrenches	3
Tee-handle wrenches	2
Total	39

In wooden tool box. Weight, 41 lbs.

No. 30 ..... $24.00

WALDEN AUTOMOBILE TOOLS

INDIVIDUAL CAR SETS

These sets are especially designed for car owner use.

No. 39	Chevrolet	$4.75
No. 44	Buick	3.80
No. 49	Maxwell	4.55
No. 57	Ford	4.55
No. 65	Dodge	3.00
No. 75	Overland	2.80
No. 76	Overland Four	3.85

FORDSON TRACTORS

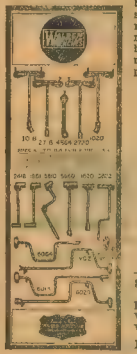
No. 85 Set – Fordson Tractor

These wrenches will be found to answer the demands of either farmer or expert repair man in making repairs and adjustments on Fordson tractors in quickest possible time.

No. 85—Weight, 13½ lbs.

Per set $8.80

FOR FORD CARS



These free display boards have wooden backs, the front is of sheet metal handsomely lithographed in black and golden rod, the hooks are held by nut and check nut and there is no possibility of the board warping out of shape. An ornament to any store and a valuable sales producer. Size, 6x2 feet.

5	1620	$0.70	$ 3.50
5	5810	.55	2.75
5	2718	.60	3.00
5	2720	.60	3.00
5	4564	1.30	6.50
5	2418	.80	4.00
5	1018	2.50	12.50
5	1020	2.50	12.50
5	6064	.77	3.85
5	6018	.88	4.40
5	6020	.88	4.40
5	VG-2	.88	4.40
5	VG-3	.55	2.75
5	5660	1.20	6.00
5	1981	1.10	5.50
5	3822	.66	3.30
80 Wrenches			$82.35

Board and hooks (crated), lbs..... 50
Wrenches boxed for shipment, lbs.. 103
Wrenches net, lbs..... 85

No. 80—80 wrenches with board...$80.00

DIRECTORY OF WRENCHES FOR FORDSON TRACTORS

Clutch housing bolt	852
Clutch lever bracket bolt	856
Clutch shaft nut	851
Connecting rod cap bolt nut	856
Crank case bolt	856
Crank case nut	856
Crank shaft bearing cap bolt nut (main bearing nut)	853
Cylinder front cover bolt	856
Cylinder front cover cap screw	856
Cylinder head cap screw	856
Dash cap screw	853
Differential housing bolt	856
Differential housing	855-B
Exhaust tube bracket bolt	852
Fan adjusting nut and screw	850
Foot bracket cap screw	854
Front wheel spindle nut	855-A
Fuel tank strap nut	856
Gear shifter plate cap screw	854
Radiator connection bolt	856
Radiator connection bolt nut	856
Radiator cover bolt	856
Radiator cover bolt nut	856
Radiator tank bolt	852
Radiator tank bolt nut	852
Radiator top tank cap screw	854
Radius rod bolt nut	01516
Rear axle housing cap screw	853
Rear axle split	856-855-B
Rear wheel hub cap screw	855-A-B
Steering arm ball nut	01516
Steering arm nut	855-A
Steering shaft nut	01516
Steering wheel nut	850-01516
Transmission housing bolt	856
Transmission housing bolt nut	856
Transmission housing cap screw	856
Transmission draw bar cap screw	853
Transmission housing plate cap screw	856
Transmission oil plug	855-A

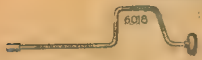
WALDEN AUTOMOBILE TOOLS

DIRECTORY OF WRENCHES FOR FORD CARS

Axle housing bolt and nut....6064-1620
Ball socket bolt and nut....6018
Body bracket bolt nut....5660
Brake adjusting nut....4564
Brake reverse support bolt nut....2418
Brake shoe support nut....2418
Carburetor flange bolt and nut....1018
Clutch pedal support bolt nut....2418
Commutator case support bolt....2718-6018
Commutator case support bolt (on self starter cars)....2720-6020
Connecting rod cap bolt nut....5810-1020
Controller shaft, bracket bolt nut....2418
Crank case arm bolt and nut (side)....2418
Crank case arm bolt and nut (top)....2418
Crank case and cylinder cover cap screw....6018-2718
Crank case lower cover screw....6064
Crank shaft bearing bolt....1881
Crank shaft bearing bolt center and front....1881-2418
Crank shaft bearing bolt nut....2418
Cylinder cover bolt nut....2718
Cylinder cover cap screw....2718-6018
Cylinder cover cap screw (cars with self starter)....2720-6020
Cylinder head cap screw....1620-6020
Cylinder valve cover, stud nut....1018
Dash bracket to dash bolt nut....6064-1620
Differential case stud nut....2418
Differential drive gear screw....6064
Drive shaft roller bearing, stud nut....2720-1620
Fan adjusting screw....2718-6018
Fan bracket bolt....2418
Fly wheel cap screw....3822
Front fender iron bolt nut (side)....2418
Front fender iron bolt nut (bottom)....2418
Front radius rod nut....5660
Front and rear spring hanger nut....5660
Front spring clip nut....2418
Front spring perch nut....5660
Hub brake rod support, bolt and nut....1620
Hub bolt nut....6022-5660
Inlet and exhaust clamp stud nut....1018-2418
Magnet bolt....6018-2718
Muffler rod nut....6064-6016
Piston pin lock screw....1881
Radiator stud nut....2718
Radius rod bolt and nut....5660
Rear hub lock nut (late models)....2432
Rear hub lock nut....5660
Rear spring clip nut....5660
Reverse adjusting nut....4564
Running board, bolt nut....1881
Running board to fender, bolt nut....1881
Spindle bolt nut....2418
Spindle bolt with oiler....5660
Spindle connecting rod bolt and nut....5660
Spindle connecting rod bolt with oiler....5660
Steering post bracket, bolt nut....2418
Steering tube flange bolt nut....6064
Steering yoke clamp bolt and nut....2418
Transmission cover bolt and nut....6018
Universal ball cap, bolt and nut....1018-2718
Universal ball cap screw....2418-1018
Water cylinder inlet connection, cap screw....1620
Water cylinder outlet, connection, cap screw....1620

WALDEN AUTOMOBILE TOOLS

INDIVIDUAL WRENCHES FOR FORD CARS



Long shank, 11-inch, brace speed tool. Overall length 19¼-inch Socket size ⅞-inch. Used on:
Commutator case support bolt.
Crank case and cylinder cover cap screw.
Cylinder cover cap screw.
Fan adjusting screw and nut.
Magnet bolts.
Transmission cover bolt and nut.

No. 6018 ..... Each $0.88

Long shank, 11-inch, brace speed tool. Over all length, 19¼-inch. Socket size, ⅝-inch. Used on:
Commutator case support bolt. On cars with self-starters.
Cylinder cover cap screw. On cars with self-starter.
Cylinder head cap screws.

No. 6020 ..... Each $0.88

Short speed wrench. Socket size, ½-inch hexagon. Length over all, 12⅜-inch. Will fit the following:
Crank case, lower cover screw.
Differential drive gear case.
Muffler rod nut.
Rear axle housing, bolt and nut
Steering tube flange, bolt and nut.

No. 6064 ..... Each $0.77

Long shank, 20-inch, brace speed wrench. Socket size, ⅞-inch. Over all length, 23-inch. Used on:
Front fender iron bolt nut, side.
Radiator stud nut.

No. 6218 ..... Each $1.10

NUT AND BOLT SPEED

A one-man tool. The extension socket holds either the nut or bolt head while the operator spins it off. Extension arm is adjustable for different bolt lengths.

Socket sizes, ½-inch hexagon and ⅝-inch hexagon. Length over all, 20⅜-inch. Will fit the following:
Rear axle housing bolt and nut.

No. 6316 ..... Each $3.00

Socket sizes, ⅞-inch hexagon and ⅞-inch hexagon. Length over all, 20⅜-inch. Will fit the following:
Ball socket, bolt and nut.
Crank case arm, bolt and nut, side.
Steering post bracket bolt and nut.
Steering yoke clamp, bolt and nut.
Transmission cover, bolt and nut.

No. 6318 ..... Each $3.00

TEE FLEX

Universal joints and sockets have been used in combination with wrenches and are now complete in one solid tool. Will reach nuts otherwise inaccessible.

Socket size, ½-inch hexagon. Length over all, 13¾-inch. Will fit the following:
Crank case, lower cover screw.
Dash bracket to dash, bolt nut.
Muffler rod nut.
Steering tube flange, bolt nut.

No. 1016 ..... Each $2.50

Socket size, ⅞-inch hexagon. Length over all, 13¾-inch. Will fit the following:
Carburetor flange, bolt and nut.
Commutator case support bolt.
Cylinder valve cover stud nut.
Inlet and exhaust clamp, stud nut.
Universal ball cap, bolt and nut.
Universal ball cap, cap screw.

No. 1018 ..... Each $2.50

Socket size, ¾-inch hexagon. Length over all, 13¼-inch. Will fit the following:
Connecting rod cap nut.
Cylinder head cap screw.
Water cylinder inlet connections, cap screw.

No. 1020 ..... Each $2.50

VALVE GRINDERS

Short valve grinder wrench—all steel. The original wire handle valve grinder re designed with ⅝-inch bar handle, which swivels on cone bearing. The fork end fits the head perfectly.

No. VG8 ..... Each $0.55

Long shank brace grinder wrench. Some garage men prefer the brace grinder in place of short grinder VG2. Fork end flexible and will reach all valves, including one under the dashboard.

No. VG2 ..... Each $0.85

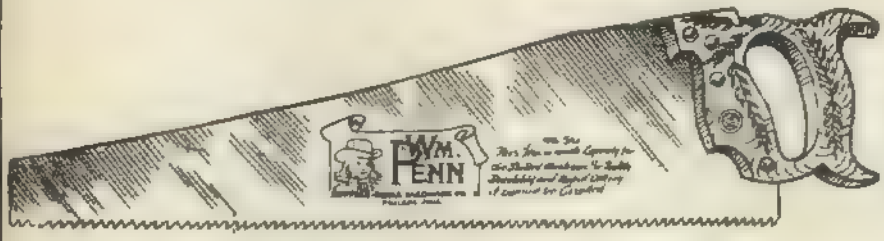
HAND, RIP AND PANEL SAWS

ROYAL STEEL SKEW BACK

High Grade Spring Steel Full Width Blade, Taper Ground Thin Back, Highly Polished Even Temper. Hand Beve Filed and Set. Highly Polished and Carved Cherrywood Handle Four Brass Screws

NO. 255—H HAND		NO. 255—R RIP		
Length of Blade, Ins.	26	Length of Blade, Ins	26	28
Points Per Inch	6, 7, 8, 10, 11, 12, Asst. 7/9, 8/10	Points Per Inch	4½, 5, 5½, 6	4½, 5, 5½, 6
Per Dozen	$35.00	Per Dozen	$35.00	$37.50

Third dozen in a box



WILLIAM PENN

Crucible Steel Thin Back, Taper Ground, Being Thinner on the Back at the Point Than on Back at Handle or Butt. Same Gauge on Cutting Edge From Point to Butt. Are Hand Beveled, Filed to Needle Point Making Fast Cutting Warranted

SKEW BACK

Hand Smithed, Hand Blocked. The 26-Inch is 1¼ Inches at Point and 5¾ Inches at Heel Light and Rigid Applewood Handle Highly Polished and Carved. Four Brass Screws.

No. 40 HAND		No. 40 PANEL	
Length of Blade, Inches	26	Length of Blade, Inches	24
Points Per Inch	8, 9, 10, 11	Points Per Inch	8, 10 Asst. 9/11
Per Dozen	$40.00	Per Dozen	$37.00

STRAIGHT BACK

No. 45 HAND		No. 45 PANEL		
Length of Blade, Inches	26	Length of Blade, Inches	20	24
Points Per Inch	7, 8	Points Per Inch	9, 10	8, 9
Per Dozen	$40.00	Per Dozen	$33.00	$37.50

Third dozen in a box

SKEW BACK

Full Width Blade Perfect Temper Cherry or Applewood Handle Highly Finished and Carved Five Brass Screws Handle Set in Blade.

No. 50 HAND		No. 50 RIP	
Length of Blade, Inches	26	Length of Blade, Inches	26
Points Per Inch	7, 11	Points Per Inch	5, 6
Per Dozen	$40.00	Per Dozen	$40.00

Third dozen in a box

HAND, RIP AND PANEL SAWS

ARISTOCRAT SKEW BACK

Highly Polished Crucible Steel Blade Beech Handle Thoroughly Seasoned, Hand Carved and Polished Fitted to Blade with Brass Screws

HAND		RIP	
Length of Blade, Inches	26	Length of Blade, Inches	26
Points to the Inch	6, 7, 8, 9	Points to the Inch	5 5½ 6
Per Dozen	$30.00	Per Dozen	$30.00

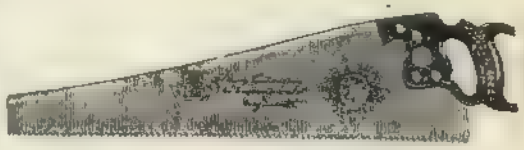
PANEL

Length of Blade, Inches	24	22	20
Points to the Inch	11, 12	10, 11, 12	10, 11, 12
Per Dozen	$28.50	29.00	28.00

Third dozen in a box.

DISSTON'S SKEW BACK

Exceptionally High Finish Extra Disston Crucible Steel Blade, Hand Filed and Set. Handsomely Etched Genuine Rosewood Handle, Carved and Polished. Five Nickel Plated Screws.



No. D115H—HAND

Length of Blade, Inches	26	26
Points to the Inch	7, 8, 9, 10, 11, 12	Asst 7/9, 8/10, 9/11, 10/12
Weight, Per Dozen, About Lbs.	24	24
Per Dozen	$48.50	46.50

Third Dozen in a box.

No. D115P—PANEL

Length of Blade, Inches	20	22	24	Length of Blade, Inches	20	22	24
Points to the Inch	7, 8, 9, 10, 11, 12			Points to the Inch	Asst. 8/10, 9/11, 10/12		
Weight, Per Dozen, About Lbs.	14	16	20	Weight, Per Dozen, About Lbs.	14	16	20
Per Dozen	$71.50	76.50	81.50	Per Dozen	$71.50	76.50	81.50

All above third Dozen in a box.

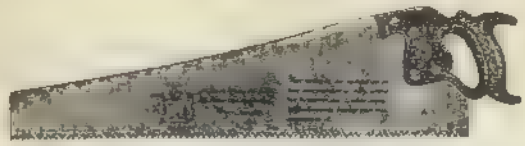
Note.—We Can Furnish This Saw with **Straight Back** in Hand, Rip and Panel Under **No. D15** Same Lists and Prices as No. D115

DISSTON DOUBLE DUTY

Special Combination of Teeth Insures Free Running, Easy and Very Rapid Cutting in Heavy Work, Whether Crosscutting, Ripping or Cutting Diagonally Across the Grain Made in Skewback Pattern, the Blade of Disston High Quality Crucible Steel, Warranted Full Polished, Hardwood Handle, Fastened with Brass Screws.

	Per Dozen
No. D17—Hand. Length, 26 Inches	$56.00

HAND, RIP AND PANEL SAWS



DISSTON'S "ACME" SKEW BACK

Extra Refined London Spring Steel Blade, Hand Filed and Set. Highly Polished and Etched. Carved Applewood Handle Polished and Varnished. Five Brass Screws Particularly Adapted for Fine Cabinet Work, Sawing Mitres and where Rapid Smooth Cutting is Required. In Sharpening, Care must be Used to File the Teeth at the Same Angle as They Leave the Factory

No. 120—HAND

Length of Blade, In.	26	26
Points Per Inch	8, 9, 10, 11, 12	Asst 7/9, 8/10, 9/11 10/12
Wt Per Doz., Lbs.	24	24
Per Dozen	$32 00	32 00
	[illegible]	80.00

DISSTON'S SKEW BACK

Extra Refined London Spring Steel Blade, Thoroughly Tempered. Highly Polished and Etched. Hand Set and Filed. Carved and Polished Applewood Handle Four Improved Brass Screws

No. 112—HAND

Length Blade, In...	26	26
Points Per Inch	..7, 8, 9, 10, 11, 12	Asst. 7/9, 8/10, 9/11, 10/12
Wt., Per Doz., Lbs.	26	26
Per Dozen	$30 00	30 00
	$72.00	72.00

Third dozen in a box

No. 12—DISSTON'S STRAIGHT BACK

Extra Refined London Spring Steel Blade, Etched and Highly Polished Hand Set and Filed Carved and Polished Applewood Handle. Four Improved Brass Screws in Hand and Rip Saws; Three in Panel

HAND

Length of Blade, Inches	26	26
Points Per Inch	6, 7, 8, 9, 10, 11, 12	Asst 6/8, 7/9, 8/10 9/11, 10/12
Weight, Per Dozen, About Lbs.	26	26
Per Dozen	$29 00	29.00
	$70.00	70.00

RIP

Length of Blade, Inches	26	26
Points Per Inch	5, 5½, 6	Asst. 5/6
Weight, Per Dozen, About Lbs	26	26
Per Dozen	$29.00	29 00
	$70.00	70.00

RIP

Length of Blades, Inches	28	28
Points Per Inch	5 5½ b, 6½	5 and 5½ 5/8, 5½ and 6
Weight Per Doz., About Lbs	28	28
Per Dozen	$3[illegible] 00	[illegible] 00
	$49.50	49.50

PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	8, 9, 10, 11, 12		
Weight Per Dozen About Lbs	16	20	22
Per Dozen	$2 3 00	25 00	27 00
	$56.00	60.00	65.00

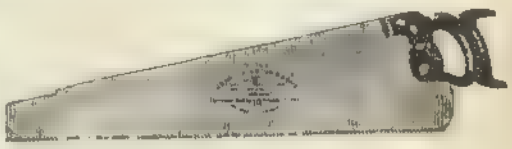
PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	Asst 8/10, 9/11, 10/12		
Weight Per Dozen About Lbs	16	20	22
Per Dozen	$2 3 00	25 00	27 00
	$56.00	60.00	65.00

Third Dozen in a box.

No. 16—DISSTON'S STRAIGHT BACK

High Grade Polished and Etched Spring Steel Thin Back Blade. Carved and Varnished Applewood Handle. Teeth Set and Filed. Four Brass Screws in Hand and Rip Saws; Three in Panel Saws.



HAND

Length Blade, In.	26	26 Assorted
Points Per Inch	6, 7, 8, 9, 10 11, 12	6/8, 7/9, 8/10. 9/11 10/12
Wt., Per Dozen, Abt. Lbs	24	24
Per Dozen	$22.50	22 50
	$55.00	56.00

RIP

Length Blade, In	26	28
Points Per Inch	5, 5½ 6 Asst 5 and 5½, 5/6	5 5½ 6 Asst 5 and 5½, 5/6
Weight, Per Doz., About Lbs.	24	26
Per Dozen	$22.50	25.50
	$53.00	60.00

PANEL

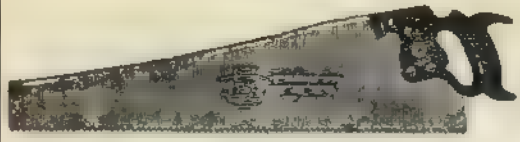
Length of Blade, Inches	18	20	22	24
Points Per Inch	6, 7, 8, 9, 10, 11, 12			
Weight, Per Dozen, Abt Lbs	14	16	20	22
Per Dozen	$16 25	18 00	20.00	21.50
	$40.00	44.00	48.00	53.00

PANEL

Length of Blade, Inches	18	20	22	24
Points Per Inch	Asst. 8/10, 9/11, 10/12			
Wt., Per Doz., About Lbs.	14	16	20	22
Per Dozen	$16.25	18.00	20.00	21.50
	$40.00	44.00	47.00	52.00

Third dozen in a box.

HAND, RIP AND PANEL SAWS



No. D/100—DISSTON'S SKEW BACK

Polished Spring Steel Blade, Tempered, Hand Filed and Set. Carved and Polished Applewood Handle Five Improved Brass Screws in Hand and Rip Saws; Four in Panel.

HAND

Lght Blade, In...	26	26 Assorted
Points Per Inch	6, 7, 8, 9, 10, 11, 12	6/8, 7/9, 8/10, 9/11, 10/12
Wt, Per Dozen, Lbs	24	24
Per Dozen	$25 00	25.00
	~~$30.00~~	~~60.00~~

PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	7, 8, 9, 10, 11, 12		
Weight, Per Dozen, About Lbs	16	20	22
Per Dozen	$20.00	22.00	23.50
	~~$30.00~~	~~54.00~~	~~60.00~~

RIP

Length of Blade, Inches	26	26 Assorted
Points Per Inch	4½, 5, 5½, 6	4½ and 5, 4½/5½, 5 and 5½, 5/6
Wt, Per Doz., Abt. Lbs.	26	26
Per Dozen	$28 00	28 00
	~~$37.50~~	~~67.50~~

PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	Assrt 7/8, 8/10, 9/11, 10/12		
Wt, Per Dozen, About Lbs	16	20	22
Per Dozen	$20.00	22 00	23.50
	~~$45.00~~	~~53.50~~	~~60.00~~

Third dozen in a box

DISSTON'S SKEW BACK

Extra Refined London Spring Steel, Polished and Etched Blade. Carved and Varnished Applewood Handle. Five Brass Screws

No. D20—HAND

Length of Blade, Inches	26	26
Points per Inch	7, 8, 9, 10, 11, 12	Asst. 7/9, 8/10, 9/11, 10/12
Weight, Per Dozen, About Lbs	24	24
Per Dozen	$25.00	25.00
	~~$30.00~~	~~60.00~~

No. D20—PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	7, 8, 9, 10, 11, 12		
Weight, Per Dozen, About Lbs	16	20	22
Per Dozen	$20 00	22.00	23.50
	~~$45.00~~	~~53.00~~	~~60.00~~

Length of Blade, Inches	20	22	24
Points Per Inch	Asst. 8/10, 9/11, 10/12		
Weight, Per Dozen, About Lbs	16	20	22
Per Dozen	$20 00	22 00	23.50
	~~$45.00~~	~~53.00~~	~~60.00~~

Third dozen in a box

DISSTON'S STRAIGHT BACK

Extra Refined London Spring Steel, Polished and Etched Blade Carved and Varnished Applewood Handle. Five Brass Screws. Width at Butt, 6 Inches, at Point, 1⅛ Inches, on 26-inch Blade.

No. D23—HAND

Length of Blade, Inches	26	26
Points Per Inch	8, 9, 10, 11, 12	Asst. 8/10, 9/11, 10/12
Weight Per Dozen, About Lbs	24	24
Per Dozen	$25 00	25.00
	~~$30.00~~	~~60.00~~

No. D23—PANEL

Length of Blade, Inches	20	22	24
Points Per Inch	8, 9, 10, 11, 12		
Weight Per Dozen About Lbs	16	20	22
Per Dozen	$20 00	22 00	23 50
	~~$49.00~~	~~53.50~~	~~57.00~~

Length of Blade, Inches	20	22	24
Points Per Inch	Asst. 8/10, 9/11, 10/12		
Weight, Per Dozen, About Lbs	16	20	22
Per Dozen	$20.00	22 00	23.50
	~~$45.00~~	~~53.00~~	~~57.00~~

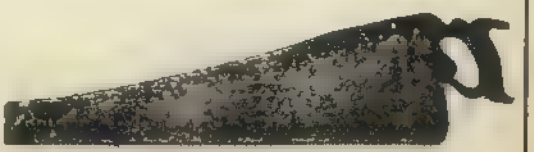
Third dozen in a box

DISSTON'S CENTENNIAL SKEW BACK

Cast Steel, Warranted Apple Handle Polished Edge Four Screws.

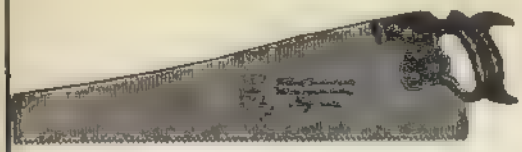
No. 76—HAND

Length of Blade, Inches	26	26
Points Per Inch	7, 8, 9, 10, 11, 12	Asst. 7/9, 8/10, 9/11, 10/12
Wt, Per Doz., Abt. Lbs.	24	24
Per Dozen	$21.00	21 00
	~~$30.00~~	~~50.00~~



Third dozen in a box.

HAND, RIP AND PANEL SAWS



DISSTON'S SKEW BACK

Patent Ground and Tempered Extra Spring Steel Blade. Hand Filed and Set, Etched and Highly Polished. Plain Beech Handle, Polished Edges. Five Improved Brass Screws.

No. D8—HAND

Length Blade, Inches	26	26
Points Per Inch	6, 7, 8, 9, 10, 11, 12	Asst 6/8, 7/9, 8/10, 9/11, 10/12
Weight, Per Dozen, About Lbs.	24	24
Per Dozen	$22 50	22.50
	$54.00	**$4.00**

No. D/8—RIP

Length of Blade, Inches	26	26
Points Per Inch	4½, 5, 5½, 6, 6½	Assorted, 4½, and 5 4½/5½, 5 and 5½, 5/6, 5½ and 6
Wt., Per Dozen, About Lbs.	22	24
Per Dozen	$22 50	25 50
	$54.00	**$1.50**

No. D/8—PANEL

Length of Blade, Inches	18	20	22	24
Points Per Inch		7, 8, 9, 10, 11, 12		
		Asst. 7/9, 8/10, 9/11, 10/12		
Weight, Per Dozen, Abt. Lbs	14	16	20	22
Per Dozen	$16.25	18 00	20.00	21 50
	$40.00	**44.00**	**47.50**	**51.00**

Third dozen in a box

Note.—We Can Furnish this Saw with **Straight Back** in Hand, Rip and Panel Under No **D30** Same Lists and Prices as No D8.

DISSTON'S STRAIGHT BACK

Special Spring Steel, Polished and Etched. Thin Back Blade. Plain Beechwood Handle, Varnished Edges Teeth Set and Filed Hand and Rip. 4 Brass Screws; Panel, Three.

No. 7

Length of Blade, Inches	26	26
Points to the Inch	6, 7, 8, 9, 10, 11, 12	Asst. 6/8, 7/9, 8/10, 9/11, 10/12
Weight, Per Dozen, About Lbs.	26	26
Per Dozen	$20 00	20.00
	[illegible]	**48.00**

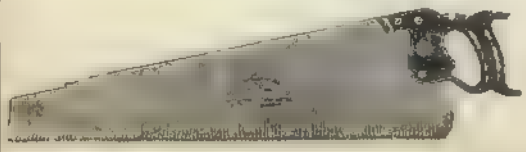
No. 7—RIP

Length of Blade, Inches	26	26		Length of Blade, Inches	28	28
Points to the Inch	5, 5½, 6	Asst. 5 and 5½ 5/6		Points to the Inch	4½, 5, 5½, 6 6½	Asst 4½ and 5 4½/5½, 5/6
Weight, Per Dozen, About Lbs.	26	26		Wt., Per Doz., Abt. Lbs	28	28
Per Dozen	$20.00	20 00		Per Dozen	$23 50	23 50
	$48.00	**48.00**			**$56.00**	**56.00**

No. 7—PANEL

Length of Blade, Inches	20	22	24	Length of Blade, Inches	20	22	24
Points to the Inch	7, 8, 9, 10, 11 12			Points to the Inch	Asst 7/9, 8/10, 9/11, 10/12		
Weight, Per Dozen, About Lbs	16	20	23	Wt., Per Dozen, About Lbs.	16	20	23
Per Dozen	$16.00	18.00	19 00	Per Dozen	$16 00	18 00	19 00
	$39.00	**43.50**	**45.00**		**$39.00**	**43.50**	**45.00**

Third dozen in a box



KEYSTONE STRAIGHT BACK

Warranted Cast Steel. Patent Ground and Tempered. Beech Handle Polished Edge. Brass Screws

		Per Dozen	
No. 107—Hand.	26-inch, 6, 7, 8, 9, 10 **Assorted,** 6/8, 7/9 8/10 Weight, Per Dozen, About 26 Lbs	$17.50	**$41.50**

Third dozen in a box

HAND, RIP AND PANEL SAWS

DISSTON'S STRAIGHT BACK

High Grade Spring Steel, Polished and Etched. Thin Back Blade. Plain Applewood Handle, Varnished Edges Brass Screws. Teeth Set and Filed. Four Screws.

No. 8—HAND

Length of Blade, Inches	26	26
Points to the Inch	7, 8, 9 10 Asst	7/9, 8/10
Weight, Per Dozen, About Lbs.	26	26
Per Dozen	$21 50	21 50
	$51.50	51.50

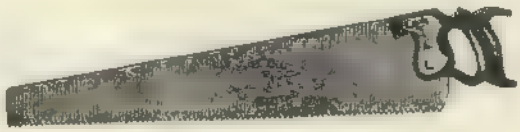
No. 8—RIP

Length of Blade, inches.	28	28	28
Points to the Inch	5, 5½	Asst. 5.5½	5½, 6
Weight, Per Dozen, About Lbs	28	23	28
Per Dozen	$24.50	24.50	24 50
	$60.00	60.00	60.00

Third dozen in a box

"OUR BOSS" STRAIGHT BACK

Cast Steel, Black Walnut Handle, Polished Edges. Three Oval Brass Screws. Steel Plate on Handle



No. 110

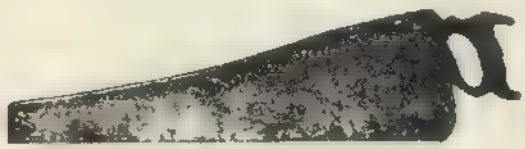
Per Dozen

No. 110—Hand. 26-inch, 5, 6, 7, 8, 9 Points. Assorted, 6/8, 7/9 Points. Weight, About 26 Lbs . **$36.00**

Half dozen in a box

"CHALLENGE" SKEW BACK

Cast Steel, Ground Full Width Blade. Beech Handle, Varnished Edge Four Plain Brass Screws. Warranted.



No. C120

Per Dozen

No. C120—Hand. 26-inch, 6, 7, 8, 9 Points. Assorted, 6/8, 7/9 Points. Weight, Per Dozen, About 26 Pounds... **$14.50**

Third dozen in a box

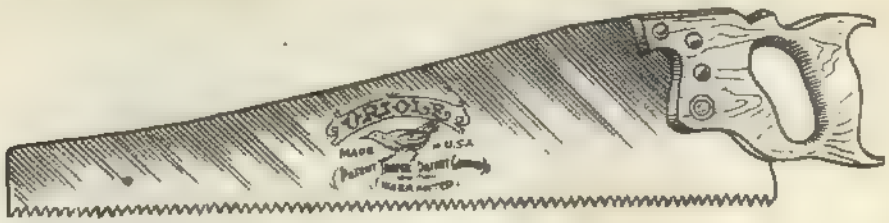
Headquarters for Bicycles and Sundries

See Separate Catalog

HAND, RIP AND PANEL SAWS

ORIOLE

Cast Steel, Patent Ground, Full Width Blade Carved Cherry Handle Four Brass Screws

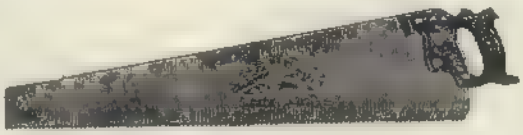


No. 1160			
Length of Blade, Ins.	26	26
Points to the Inch	7, 8	7/8, 7/9
Per Dozen	$23.00	23.00

Third dozen in a box.

"SO EASY" STRAIGHT BACK

Cast Steel, Patent Ground, Full Width Blade. Carved Cherry Handle. Four Brass Screws



No. 105H—HAND

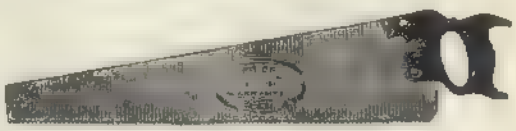
Length of Blade, Inches	26	26
Points to the Inch	6, 7 8, 9	6/8, 7/9
Weight, Per Dozen, About Lbs.	26	26
Per Dozen	$26.00	26.00

No. 105P—PANEL

Length of Blade Inches	16	18	20	22	24
Points to the Inch	8/10	8/10	8/10	8/10	7/9, 8/10
Wt. Per Doz., About Lbs.	11	13	15	18	22
Per Dozen	$16.50	17.00	20.00	21.50	23.00

Half dozen in a box.

"PRIOR" STRAIGHT BACK



No. 130

Cast Steel. Beech Handle, Polished Edge. Three Brass Screws

Warranted

No. 130H—HAND

Length of Blade Inches	26	26
Points to the Inch	6, 7, 8, 9	Asst. 6/8, 7/9
Weight, Per Dozen, About Lbs.	[illegible]	26
Per Dozen	$20.00	20.00

No. 130P—PANEL

Lght Blade, In.	12	14	16	18	20	22	24
Points Per In	8/10	8/10	8/10	8/10	8/10	8/10	7/9, 8/10
Wt., Per Dozen, Abt. Lbs	8	9	11	13	15	18	22
Per Dozen	$12.00	13.50	12.75	14.75	16.00	17.00	17.50

Half dozen in a box.

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

HAY TOOLS

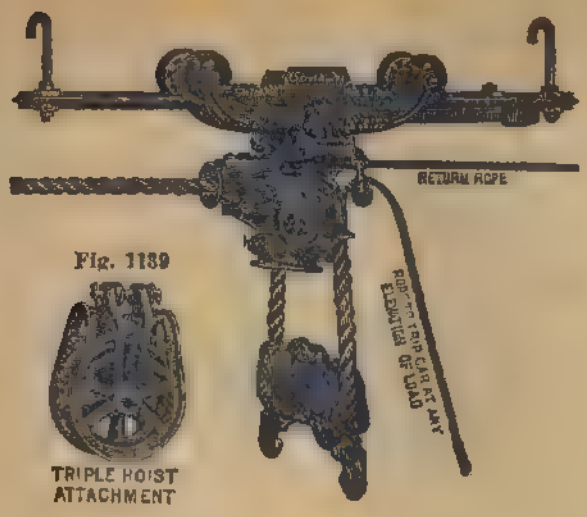


Fig. 1139

TRIPLE HOIST ATTACHMENT

CLOVER LEAF RIGHT ANGLE SLING ELEVATOR
FOR DOUBLE STEEL TRACK

This elevator is made entirely of malleable iron, with a truck operating on an 18-inch wheel base, is very heavy and of sufficient strength to withstand the ordinary usage to which such machines are subjected. The machine is so arranged that it elevates the load at right angles with the track, with the result that when the load is discharged in the mow, it lays parallel with the load on the wagon.

The lock on this elevator is so arranged that the resistance is actuated by the weight of the load, making it impossible for the rope to slip. The lock adjusts itself to any size rope from ¾ to 1 inch.

The right angle fork and sling elevator operates automatically and is tripped by the sling pulley striking a plate immediately unde rthe carrier. It is arranged with a separate trip rope, by use of which the load may be carried into the mow at any elevation desired without drawing entirely to top of barn.

Adapted to be used in connection with slings or with one or two ordinary hay forks, as desired.

No. 70—Clover Leaf Right Angle Sling Elevator; weight, 52 lbs .....Each .....
Fig. 1139—Triple Hoist Attacchment; weight, 3 lbs.. " .....

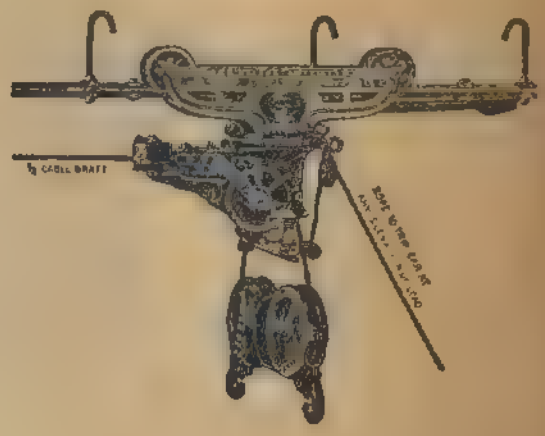
MYERS SURE GRIP SLING UNLOADER
FOR DOUBLE STEEL TRACK

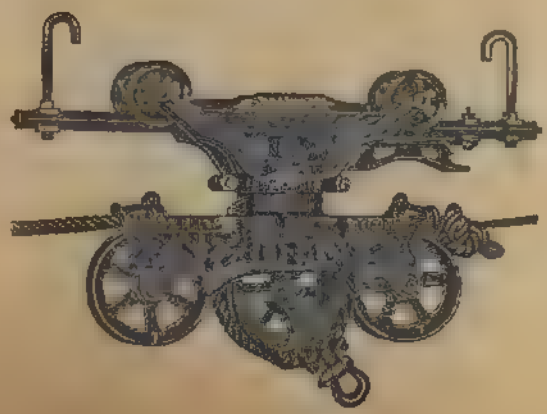
This Sure Grip Sling Unloader is fitted for cable draft instead of rope draft. It is arranged to raise the load at right angles with the track, with the result that when the load is discharged in the mow, it lays parallel with the load on the wagon, doing away entirely with the quarter turn of the load, which has always been a serious objection on sling carriers unless they use a separate attachment.

The tension of the lock is regulated entirely by the weight of the load. The heavier the load the tighter the lock. It is practically impossible for the cable to slip.

The Sure Grip Unloader operates automatically and is tripped by the sling pulleys striking a plate immediately under the machine. Equipped with an extra trip rope, by the use of which it is not necessary to raise the load to the top of the barn.

No. 60—Sure Grip Sling Unloader, for D. S. track, cable draft; weight, 65 lbs.....Each $17.85





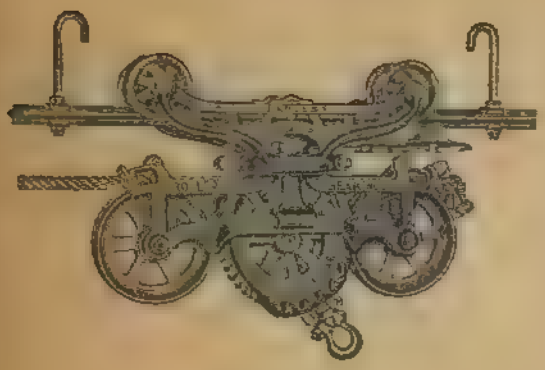
FEARLESS HAY UNLOADER
FOR DOUBLE STEEL TRACK

This Fearless Unloader is built for rope or wire cable for draft rope. The special advantage of wire rope is that it is much easier to handle than a large rope. It also gives practically three times the amount of wear, while the original expense of the wire rope over the manila is but slight, the unloader being adapted to either the rope or cable.

The sheaves are 7 inches in diameter, with a groove suitable for carrying ⅜ or ½-inch wire rope. The bearings on all rope sheaves are 1⅛-inch in diameter, hard turned steel. The machine is especially designed for heavy work. The long truck distributes the load on the track and adapts the car for using two forks or slings.

No. 309—Fearless Unloader; weight, 36 lbs.... .....Each

HAY TOOLS



FOR DOUBLE STEEL TRACK

Fearless Unloader, combination, reversible as made to be used with double angle steel track. Embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over other unloaders on the market. It is fitted with a reliable double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features is the wide open mouth, which permits the fork pulley to enter when swinging at any angle.

The rope sheaves are 7 inches in diameter, fitted with wide hub, and have large steel roller bearings revolving on steel axles, assuring long life and easy draft. They carry a special shaped groove fitted for either rope or cable.

No. 315—Fearless Unloader; weight 38 lbs.....Each .....

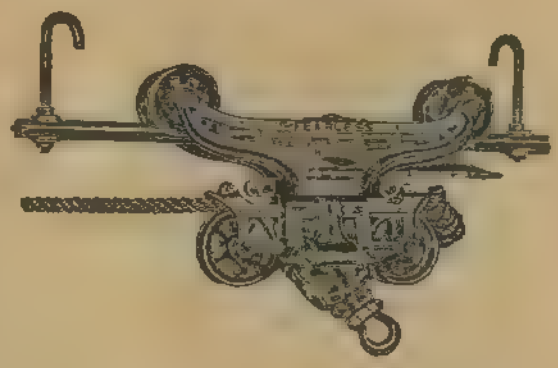
FEARLESS UNLOADER

FOR DOUBLE STEEL TRACK

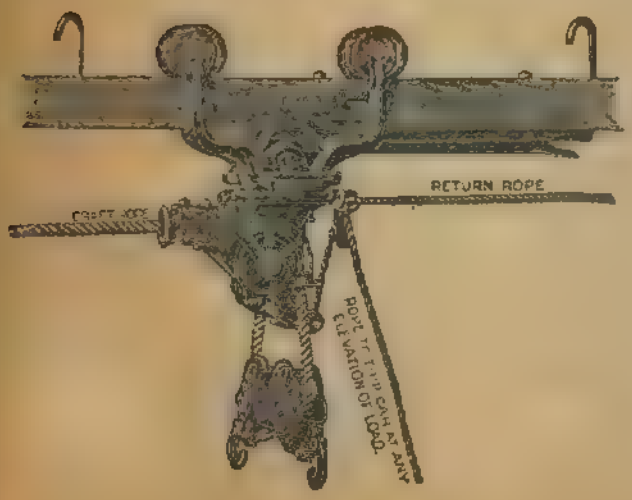
This Fearless Hay Unloader embodies all the features of the straight reversible and swivel reversible carrier, and has many advantages over any other machine on the market. Fitted with a double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all working conditions. The rope sheaves are fitted with wide hub and have longer bearings on the axle than any other make of carrier. Weight, complete, 27 lbs.

No. 300—Fearless Unloader for D. S. track, rope draft

Each ....



RIGHT ANGLE SLING ELEVATOR



FOR WOOD TRACK

Made entirely of malleable iron, with a truck operating on an 18-inch wheel base, is very heavy and of sufficient strength to withstand the ordinary usage to which such machines are subjected. Elevates the load at right angles with the track.

The ordinary sling carrier is constructed to hold a certain weight of load. If by chance the operator overloads the carrier, the result is that the rope slips through the lock, causing it to wear. On this tool it is so arranged that the tension of the rope lock is regulated by the weight of the load. The heavier the load the greater the resistance. Lock adjusts itself to any rope from ⅝ to 1-inch.

By the use of a separate trip rope the load may be carried into the mow at any elevation desired without drawing entirely to the top of the barn.

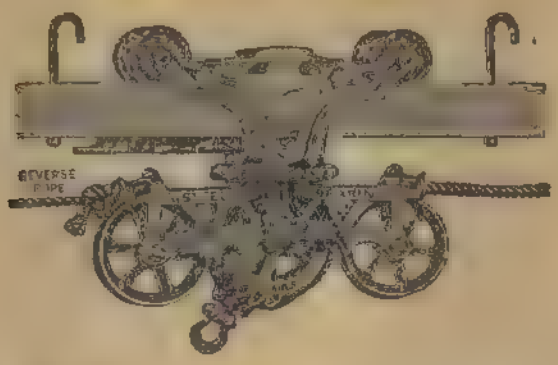
No. 75—Rope draft; weight, 60 lbs.....Each .....
No. 76—Rope draft, triple hoist; weight 63 lbs.....Each .....

Triple hoist attachment only..... .....

HAY TOOLS

FEARLESS UNLOADER

FOR WOOD TRACK



Fearless Hay Unloader, combination, reversible, as made to be used in connection with wood track. It embodies all the features of the straight reversible and swivel reversible carrier. It is fitted with a double lock which engages the fork pulley on each side, thus insuring a perfect locking device.

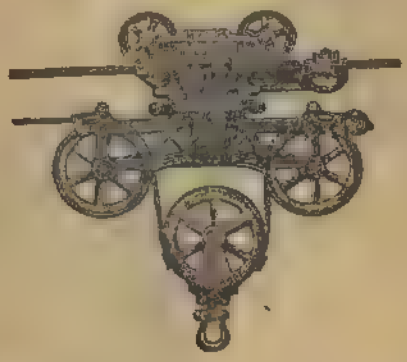
One of the important features of this machine, is the wide, open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under all conditions. The rope sheaves are seven inches in diameter for use with either rope or cable, fitted with wide hub, and have large steel bearings, insuring long life and easy draft.

No. 312—Fearless Hay Unloader for wood track. Weight, 38 lbs.

Each .....

MYERS UNLOADER

FOR CABLE OR ROD TRACK



This unloader is suitable for cable or rod track. Built with 7-inch rope sheaves for use with ⅜ inch wire rope or a ¾-inch or ⅞ inch manila rope. It has been found by actual practice that a ⅜-inch wire rope has many advantages over the ordinary manila rope, the wire rope being much lighter and stronger, more easily handled, and will wear three times as long.

Has a large open mouth, swing fork pulley and 1⅞-inch plain steel bearings.

Fitted with special pulleys, suited for using either manila rope or wire cable.

No. 171—Myers Unloader for Cable or Rod Track. Weight, 39 lbs ..... Each ....

HAY CARRIER FIXTURES

MYERS DOUBLE STEEL TRACK AND JOINT CLAMP

	Single	Double
Nos.	820	824
Weight per foot, lbs.	1¾	2
Per foot		
Joint Clamps	Each	

END STOPS FOR DOUBLE TRACK

NO. 1042

No. 1042
Each

KNOCKERS

WOOD TRACK

STEEL TRACK

No. H 271
Each

CABLE TRACK

No. H 280
Each

STEEL TRACK

For Clover Leaf steel track carriers.
No. H 413
Each

RAFTER GRAPPLES

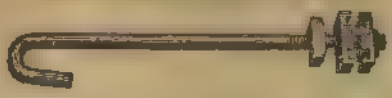
No. 439
Inch 1⅜x4
Weight dozen, lbs. 36
Each

ROPE HITCH AND HOOK

No. 376
Weight per dozen, lbs. 12
Per dozen

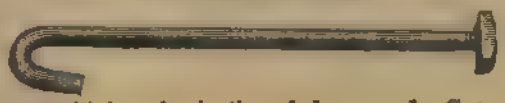
HANGER HOOK

FOR DOUBLE STEEL TRACKS



No. 802—			
Inch	½x6	½x8	½x9
Weight per dozen, lbs.	9	11	13
Per dozen			

FOR WOOD TRACKS



Round, wrought iron hook, threaded one end. Complete with nut.

No. 267—			
Inch	½x12	½x14	½x16
Weight per dozen, lbs.	10	12	14
Per dozen			

FLOOR HOOK

Wrought steel. For use with hay fork pulleys.

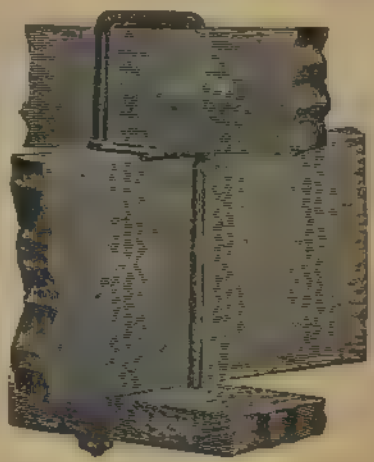
No.	266
Diameter, inch.	⅝
Length of screw, in.	3
Length over all, in.	8
Weight per doz, lbs	7½
Per dozen	

RAFTER BRACKET

Made of steel, used in connection with hanging hooks in putting up either wood or steel track.

No.	301
Length over all, inch.	7
Weight per dozen, lbs	27
Per dozen	

HAY RACK CLAMPS



NEW STAR

The boring of holes in constructing hay racks is not necessary when this clamp is used. Wrench and saw are the only tools required. When clamps are tightened rack is rigid. Intermediate bracket is studded and flanged, preventing twisting or slipping of timbers at the joints.

Clamps placed astride of the timbers are stronger than bolts, grooved steel washers makes it impossible for the clamp to cut into the crosspiece, and steel clips keep the bottom crosspieces from splitting.

Nos.	1	2	3
Length, inch	14	16	18
Weight, lbs	140	165	175
Per dozen sets			

HAY FORK PULLEYS

FOLDING

BOYDS

These pulleys have a folding snap hook, adjustable, stiff or swivel. They are used on all styles of Boyd's Hay Carriers.

Boyd Cable Hoist Carrier Fork Pulley complete.

Weight, lbs..... 5
Each .....

MOORES PATTERN

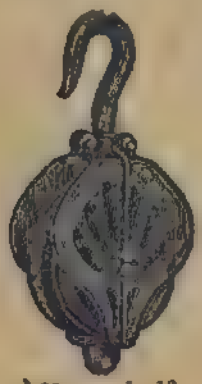
Japanned malleable iron shell. Steel roller bushings with turned steel pin. Swivel ring.

No. 1 -1¼x5-inch Rope Sheave
Length over all, inch..... 12
Weight per dozen, lbs..... 70
Per dozen .....

No. 10—1¼x5-inch Cable Sheave
Length over all, inch..... 12
Weight per dozen, lbs..... 72
Per dozen .....

No 12—1¼x8-inch Cable Sheave
Length over all, inch..... 15¼
Weight per dozen, lbs..... 130
Per dozen .....

Nos. 1, 10, 12



Nos. 3, 11, 13

No. 10—Suitable for ⅜ and ½-inch Wire Cable

No. 3 -1¼x5-inch Rope Sheave
Length over all, inch..... 12
Weight per dozen, lbs..... 78
Per dozen .....

No. 11—1¼x5-inch Cable Sheave
Length over all, inch..... 12
Weight per dozen, lbs..... 72
Per dozen .....

No. 13—1¼x8-inch Cable Sheave
Length over all, inch..... 15¼
Weight per dozen, lbs..... 130
Per dozen .....

No. 11 Suitable for ⅜ and ½-inch Wire Cable.

No. 13—Suitable for ½-inch Wire Cable

EXTRA SHEAVES AND BUSHINGS

Iron sheaves complete with bushings.

For rope on Nos. 1 and 3

No. ..... 5 R
Diameter pulley, inch 5
Weight, lbs..... 24
Per dozen .....

For cable on Nos. 10 and 11

No. ..... 5 C
Diameter pulley, inch 5
Weight, lbs..... 24
Per dozen .....

For cable on Nos. 12 and 13

No. 8
Diameter pulley, inch 8
Weight, lbs..... 48
Per dozen .....

JACKSON PATTERN

Equipped with patent hardwood bearing boxes which, if kept properly oiled, will last indefinitely. The frame is constructed of two pieces which can be readily and cheaply replaced. Sheaves can be furnished to take either manila rope or steel wire cable. Specify which is to be used when ordering. The blocks are easy running and of such a pattern that the cable cannot slip between the sheave and frame.

Nos. 5 and 6 have hook to hang up, and Nos. 50 and 60 have bolt for fastening to the floor.

SWIVEL HOOK

Nos. 5 and 6

SWIVEL BOLT

Nos. 50 and 60

Nos.	5	6
Average wgt, lbs	30	30
Sheave, for	Rope	Cable
Each		

Nos.	50	60
Average wgt, lbs	30	30
Sheave, for	Rope	Cable
Each		

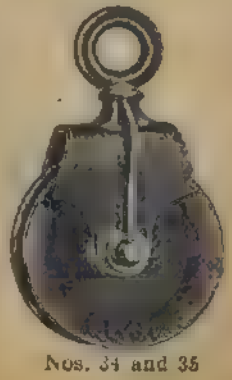
KNOT PASSING

No. 796

No. 796
Hard maple sheave, inch ...1¾x6
Weight dozen, lbs 50
Per dozen .....

No 692

No. 692
Cast iron sheave, inch 5½
Weight dozen, lbs 45
Per dozen .....



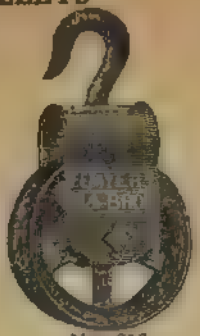
Nos. 34 and 35

The Nos. 34 and 35 same style as No. 692 heavy cast frame, riveted pin

Nos.	34	35
Cast iron sheave, inch	4	5
Weight per dozen lbs	27	10
Per dozen		

HAY FORK PULLEYS

No. 565

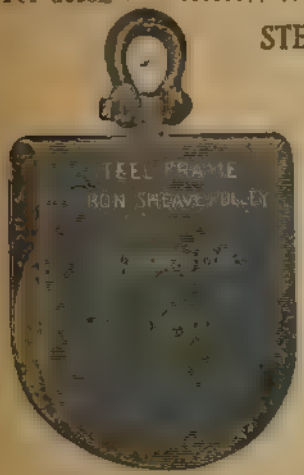


No. 619

Wrought steel frame, large axle, swivel eye or hook.

No.	565
Length cast iron sheave, inches	5½
Weight dozen, lbs	36
Per dozen	
No.	619
Length cast iron sheaves, inches	5½
Weight dozen, lbs	36
Per dozen	

STEEL FRAME



Frame is made of high carbon steel. Malleable iron clevis and swivel. Iron sheave, 7-inch diameter, revolves on a steel bushing.

For rope 1¼-inch and smaller

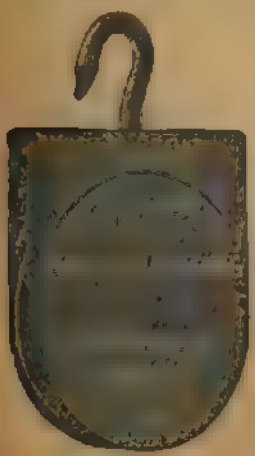
No.	1122
Weight, lbs	6½
Each	

EXTRA SHEAVES

Weight, lbs	2¾
Each	

Extra heavy. Adapted for hard service. Japanned steel frame. Swivel hook. Iron sheave with steel bushings. Heavy machine bolt passes through bushing, holding frame solid. 1⅛x7-inch sheave for ⅝ or ½-inch cable.

No.	1062
Length over all, inch	12
Weight, lbs	78
Per dozen	



Steel frame with 7-inch roller-bearing sheave. Frame is held by a heavy bolt which passes through the bushing.

For ⅝ and ½-inch cable

No.	1651
Weight, lbs	6½
Each	

EXTRA SHEAVES

Weight, lbs	2¾
Each	

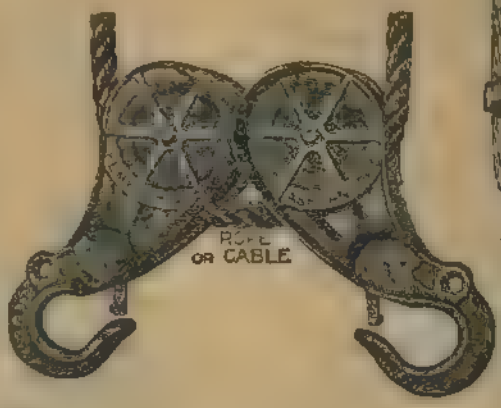
EXTRA ROLLER BEARINGS

Weight, oz	1
Each	

HAY SLING PULLEYS

Sling pulley with hard maple frame and sheave, heavy steel yoke and hook, 5-inch sheave.

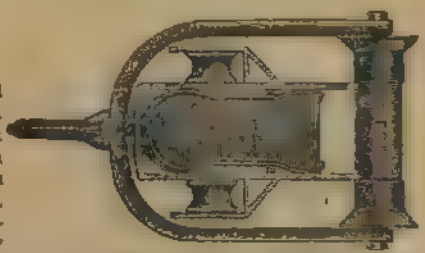
No.	981
Weight, lbs	10
Each	



Malleable frame, parallel sling pulleys, with iron sheaves, fitted for using ⅜-inch or ½-inch cable or ⅞-inch manila hoisting rope, in handling slings for stacking purposes.

No.	1709
Weight, lbs	16
Each	

SELF-LOCKING
BOTTOM VIEW



This pulley can be used with any hay carrier. It cannot be misplaced on the load, can be used with either side up, and with any style of fork pulley. When the bundle is compressed, the fork pulley passes up against the sling pulley, trips it and dislodges the center section of the pulley and allows the fork pulley to pass through the bundle being tightly compressed.

With this sling attachment the hay is deposited in the mow in the same relative position as on the wagon and not crosswise, as on many other sling carriers.

No.	1052
Weight, lbs	17
Each	

SELF-LOCKING

These self-locking sling pulleys can be used with any style wood or steel track carriers. When ordering registering heads for those pulleys give number and state name of carrier on which they are to be used.

No.	806	806M
Weight, lbs	11	16
Each		

REGISTERING HEADS

For Myers Unloaders

No.	RH276
Weight, lbs	1
Each	

For Boyd's Carriers

No.	RH21
Weight, lbs	1
Each	
No.	RH22
Weight, lbs	1
Each	

HAY FORKS

DOUBLE HARPOON

REGULAR

Spring steel spear points. Malleable iron trip levers, japanned. 3½-inch harpoon points. Two center braces, riveted to frame.

No.	268
Width of head, inch	17½
Length of tines, inch	25
Height over all, inch	35
Weight, lbs	17
Each	

EXTRA LONG

Spring steel spear points. Malleable iron trip levers japanned. 3½-inch harpoon points. Two center braces, riveted to frame.

Nos.	451	362
Width of head, inch	18	18
Length of tines, inch	31	34
Height over all, inch	41	41
Weight, lbs	21	23
Each		

ALFALFA

Extra heavy, used for alfalfa, clover, etc., and wherever regular forks are not suitable. Double harpoon. Spring steel spear points. Malleable iron trip levers, japanned 3½-inch harpoon points. Two center braces, riveted to frame.

No.	450
Width of head, inch	24
Length of tines, inch	34
Height over all, inch	47
Weight, lbs	26
Each	

AUTOMATIC GRAPPLE

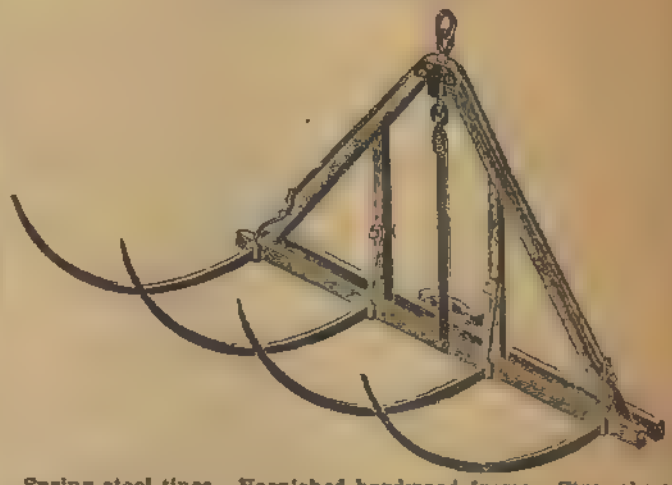
No. 1438 closed

Tines and arms are of the best high carbon spring steel, sharpened and polished. Locks are made of annealed malleable iron. When open the tines spread 65 inches. Load is discharged by means of a trip rope dropping the tines.

Previous to returning the fork to the load, the operator, by pulling sharply on trip rope, closes the fork and locks it, and when returned to the load it is all ready to go again.

No.	1351	1438
Tines	4	6
Weight, lbs	33	52
Each		

JACKSON PATTERN



Spring steel tines. Varnished hardwood frame. Strongly constructed and firmly bolted. Has convenient hand holds on the head also reliable trip latch

The 3½-foot is used for light loads, the 4 and 4½-foot for threshing machines and stacking, the 5, 5½ and 6-foot for heading or straw.

No. 1392				
Size of head, foot	3	3½	4	
Number of tines	4	4	4	
Weight each, lbs	35	40	45	
Each				
Size of head, foot	4½	5	5½	6
Number of tines	4	6	6	6
Weight each, lbs	50	55	60	70
Each				

NELLIS

Open

Malleable iron head, enameled green. Polished wrought steel blade. Tool steel point and double barb. Spring latch holds load securely and when tripped the load drops of its own weight

No.	773
Length over all, inch	36
Weight, lbs	25
Each	

HAY TOOLS
HAY SLING LOCK

MYERS SINGLE LOCK

Made of malleable iron. Has but three pieces. Is light, strong and durable.

No.	623
Weight, lbs	1
Each	

MYERS DOUBLE LOCK

Malleable iron. Suitable for large slings of style No. 1309.

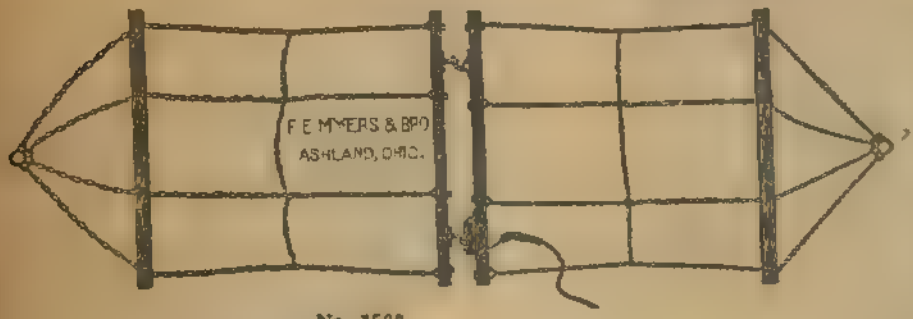
No.	1311
Weight, lbs	5
Each	

PEORIA SINGLE LOCK

A new lock, extra heavy, malleable construction. It may be attached without cutting or knotting rope, which makes it preferable to other styles. Has three eyes, making it possible to extend a third rope to trip, taking the strain off center bar.

No.	78
Weight, lbs	2
Each	

HAY SLINGS



No. 1590

DOUBLE LOCK ROPE

Has two connections between the two halves of the sling, instead of the one center lock as generally used. Double lock device has a hook and eye at one end of the sling stick, and a lock at the other end. This does away with the load drooping on each side. It is connected and locked with one motion.

No.	1508
Length of rope sling, feet	6
Weight, lbs.	37

No. 621

DOUBLE LOCK WIRE CABLE

This sling is constructed of flexible wire cable or rope. The cables are light and very flexible. Fitted with a double lock device. They are easily tripped and do not tangle.

Nos.	1309	1309
Length of cable sling, feet	5	10
Weight, lbs.	42	74

DOUBLE LOCK CHAIN

This sling is a new design made of No. 00 brown chain galvanized, having two connections between the two halves of the sling, instead of the one center lock, as generally used. The construction of this double lock device is such that we use a hook and eye at the one end of the sling stick, and a lock at the other end, thus making two separate connections, adding great strength, and causing the load to be carried without drooping at each side. The sling is connected and locks with one motion.

No.	1590
Length of chain sling, feet	6
Weight, lbs	42

No. 1308

CALIFORNIA SINGLE LOCK ROPE

Extra strong, for heavy work. Specially roped for carrying fine hay or grain, leaving no litter. Adjustable from 16 to 21 feet. Hardwood spreaders. ½-inch loose twist ropes with adjustable take-ups at each end, to meet requirements of the hay rack. Positive lock center trip.

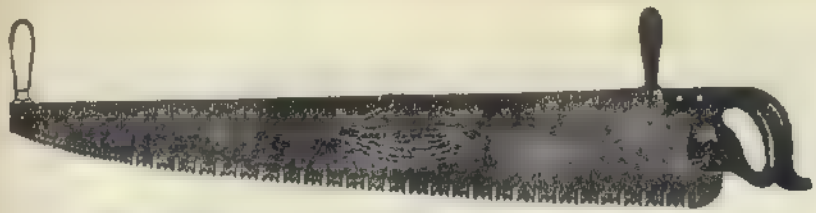
No.	621
Spreaders, foot	6
Weight, lbs.	30

No. 1309

ONE MAN CROSS-CUT SAWS

ALL EQUIPPED WITH SUPPLEMENTARY HANDLE

Warranted. High Grade Crucible Steel, Polished and Etched Teeth Filed and Set Ready for Use. Varnished, Beechwood Supplementary Handle

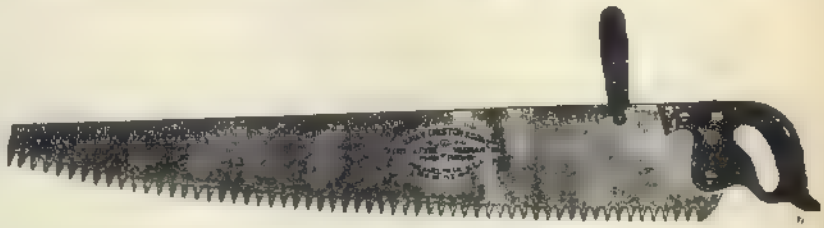


GREAT AMERICAN TOOTH

No. 185

Length, Feet	3	3½	4	4½	5
Weight, Each, About Lbs.	4	5	5½	6½	8
Each	$2.55	2.85	3.25	3.65	4.10
	$4.25	4.70	5.75	6.50	7.30

Three in a bundle; twelve in a wood box.

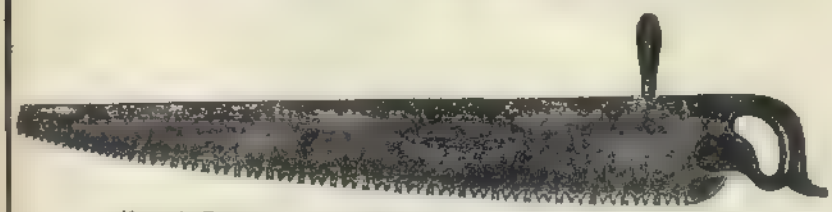


PLAIN TOOTH

No. 181

Length, Feet	2½	3	3½	4	4½
Weight, Each, About Lbs	3½	3½	4½	5½	6½
Each	$2.25	2.25	2.60	3.00	3.35
	$4.05	4.05	4.75	5.40	6.10

Three in a bundle; twelve in a wood box.



CHAMPION TOOTH

No. 180

Length, Feet	3	3½	4	4½	5
Weight Each, About Lbs.	3½	4½	5½	6½	7½
Each	$2.25	2.60	3.00	3.35	3.70
	$4.05	4.75	5.40	6.10	6.75

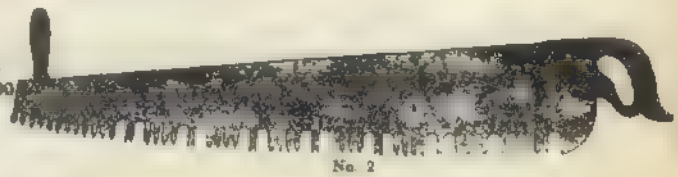
Three in a bundle, twelve in a wood box

PERFORATED LANCE TOOTH

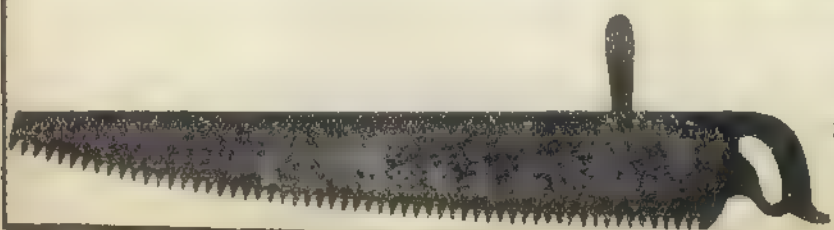
No. 2

Length, Feet	3	3½	4	4½
Each	$5.60	5.40	6.10	6.90

Three in a bundle; twelve in a wood box



No. 2



KEYSTONE PLAIN TOOTH

Cast Steel. Pat. Ground

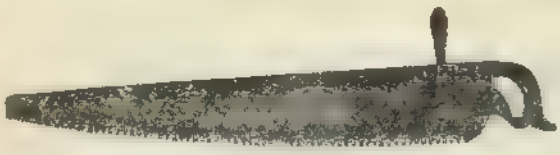
No. 191

Length, Feet	3	3½	4
Wt, Ea, Ab Lbs	3½	4½	5½
Each	$2.10	2.45	2.80
	$3.60	4.20	4.80

Three in a bundle; twelve in a wood box.

ONE MAN CROSS-CUT SAWS

ALL EQUIPPED WITH SUPPLEMENTARY HANDLE

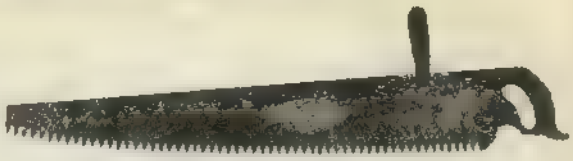


KEYSTONE CHAMPION TOOTH

Cast Steel. Patent Ground.

No. 190—					
Length, Feet	3	3½	4	4½	5
Weight, Each, About Lbs.	3¼	4¼	5½	6¼	7¼
Each	$2 10	2 45	2 80	3 15	3 50
	$1.90	4.20	4.80	4.80	6.00

Three in a bundle. Twelve in a wood box



REINDEER PLAIN TOOTH

Cast Steel. Patent Ground

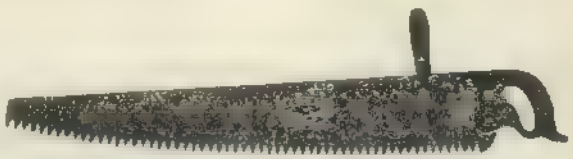
No. 1901—						
Length, Feet	2½	3	3½	4	4½	5
Weight, Each, About Lbs.	2½	3½	4½	5½	6¼	7¼
Each	$2.10	2.10	2 45	2.80	3 15	3.50
	$3.00	3.60	4.20	4.80	5.40	6.00

REINDEER CHAMPION TOOTH

Cast Steel. Patent Ground

No. 1900—						
Length Feet	2½	3	3½	4	4½	5
Weight, Each, About Lbs.	2½	3½	4½	5½	6¼	7¼
Each	$2.10	2.10	2.45	2 80	3 15	3 50
	$3.00	3.60	4.20	4.80	5.50	6.00

Three in a bundle. Twelve in a wood box.



EAGLE PLAIN TOOTH

Cast Steel.

No. E901—						
Length, Feet	2½	3	3½	4	4½	5
Weight, Each, About Lbs.	2½	3½	4½	5½	6¼	7¼
Each	$2.90	3.45	4.05	4.60	5.20	5.75

Twenty-five in a case.

EAGLE CHAMPION TOOTH

Cast Steel

No. E900—						
Length, Feet	2½	3	3½	4	4½	5
Weight, Each, About Lbs.	2½	3½	4½	5½	6¼	7¼
Each	2.90	3.45	4.05	4.60	3.20	5.75

Twenty-five in a case.

Headquarters for Bicycles and Sundries

See Separate Catalog

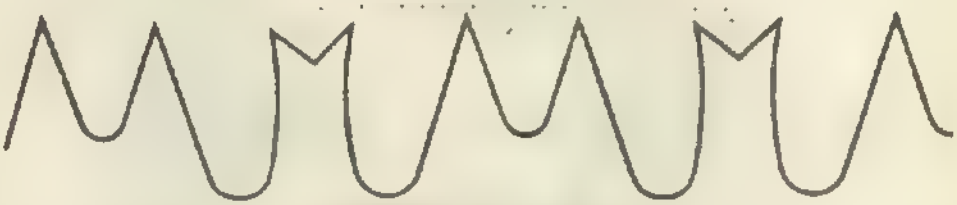
ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

CHAMPION COARSE TOOTH

3 Inches.

CHAMPION MEDIUM TOOTH

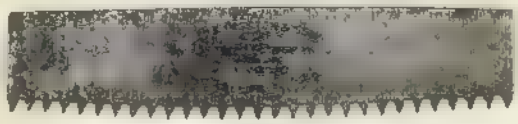
2½ Inches



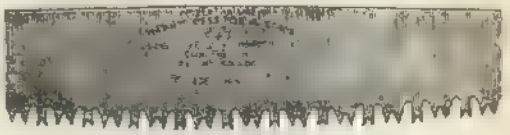
CHAMPION FINE TOOTH

2 Inches

ILLUSTRATIONS OF DIFFERENT PATTERNS CROSS-CUT SAWS

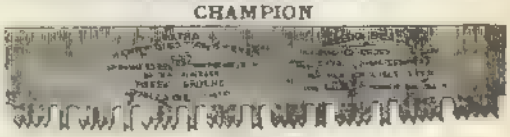


PLAIN

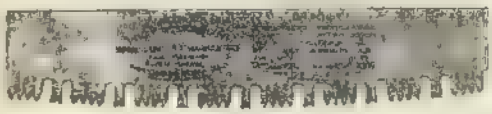


CHAMPION

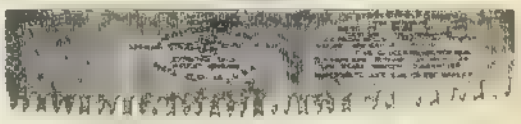
GREAT AMERICAN



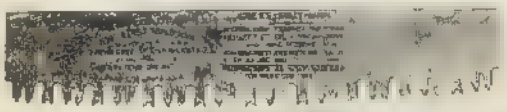
TOLEDO



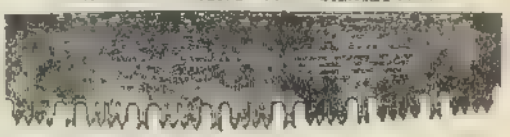
ORIOLE



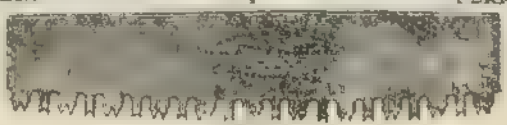
DIAMOND POINT VIM CHAMPION



GREAT SOUTHERN



PERFORATED LANCE



TUTILE

NARROW CROSS-CUT SAWS

HENRY DISSTON & SONS

Made of Best Grade Crucible Cast Steel, Perfectly Tempered in Oil and Carefully Sharpened and Set. Polished and Etched. Ground to an Even Gauge Throughout the Tooth Edge with a Relative and Uniform Thickness Throughout the Body, Giving the Saw a Maximum Amount of Clearance Without Sacrificing its Elasticity and Stiffness

TRIUMPH, GREAT AMERICAN TOOTH

No. 50—Superior Steel

Length, Feet	4½	5	5½	6	6½
Each	$1 89	2 10	2 31	2 52	2 73
	$3.40	3.75	4.15	4.50	4.90

Twenty-five in a wood case

TRIUMPH, CHAMPION TOOTH

Superior Steel

No. 35C—Coarse Tooth

Lgth. Ft.	4	4½	5	5½	6	6½
Each	$1.44	1.62	1.80	1.98	2.16	2.34
	$2.80	3.15	3.50	3.85	4.20	5.55

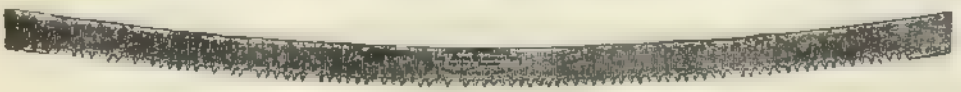
No. 35M—Medium Tooth

Lgth, Ft.	4	4½	5	5½	6
Each	$1 44	1 62	1.80	1 98	2.16
	$2.80	3.15	3.50	3.85	4.20

No. 35F—Fine Tooth

Lgth, Ft	4	4½	5	5½	6
Each	$1 44	1 62	1 80	1 98	2 16
	$2.80	3.15	3.50	3.85	4.20

Twenty-five in a wood case.

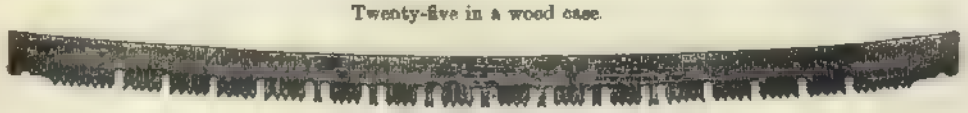


TRIUMPH, PLAIN TOOTH

No. 36—Superior Steel

Length, Feet	4	4½	5	5½	6
Each	$1.45	1 62	1.80	1 98	2.16
	$2.80	3.15	3.50	3.85	4.20

Twenty-five in a wood case.



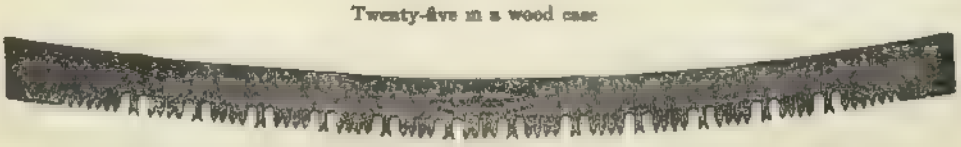
TRIUMPH TOLEDO

3 Inches Wide

No. 44—Superior Steel.

Length, Feet	4½	5	5½	6	6½
Each	$2.48	2.75	3.02	3.30	3.58
	$4.50	5.00	5.50	6.00	6.50

Twenty-five in a wood case



TRIUMPH, PERFORATED LANCE TOOTH

3¾ Inches Wide

No. 523—Superior Steel.

Length, Feet	5	5½	6
Each	$2.75	3.02	3.30
	$5.00	5.50	6.00

TRIUMPH CORPORAL

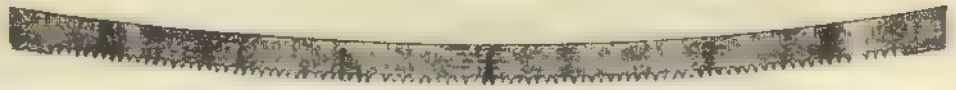
3¼ Inches Wide

No. 524—Superior Steel.

Length, Feet	4½	5	5½	6	6½
Each	$2 48	2.75	3.02	3.30	3.58
	$3.40	3.75	4.15	4.50	4.90

Twenty-five in a wood case

NARROW CROSS-CUT SAWS



REINDEER, PLAIN TOOTH

No. 46—Cast Steel. Warranted.

Length, Feet	4	4½	5	5½	6
Each	$1 40	1.58	1 75	1.93	
	$2.50	2.85	3.15	3.45	3.80

Twenty-five in a wood case

REINDEER TRIUMPH, CHAMPION TOOTH

COARSE TOOTH

No. 45C—

Lgth, Ft.	4	4½	5	5½	6	6½
Each	$1 40	1.58	1.75	1 93	2.10	2.28
	$2.50	2.80	3.15	3.45	3.75	4.10

MEDIUM TOOTH

No. 45M—

Lgth, Ft..	4	4½	5	5½	6
Each.	$1.40	1.58	1 75	1 93	2.10
	$2.50	2.80	3.15	3.45	3.75

FINE TOOTH

No. 45F

Lgth, Ft.	4	4½	5	5½	6
Each	$1.40	1 58	1 75	1 93	2 10
	$2.50	2.85	3.15	3.45	3.80

Twenty-five in a wood case

BAY STATE MEDIUM, CHAMPION TOOTH

No. 213—Hollow Back.

Length, Feet	5	5½	6
Each	$1 40	1 54	1 68
	$2.50	2.75	3.00

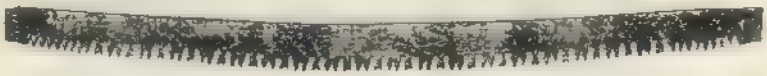
Twenty-five in a wood case

FELLING OR NARROW CROSS-CUT SAWS

SIMONDS MFG. CO. CRESCENT GROUND

Made of Highest Grade Crucible Cast Steel, Oil Tempered, Hand Filed and Set and Highly Polished and Etched

The Improvement in the Simonds Crescent Ground Cross-Cut Saw Consists in Grinding the Saw in Crescent Lines, Parallel to the Cutting Edge Shown in the Cut Marked "Crescent Ground," in which Case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while Ends are Increased Two Gauges in Thickness. In Consequence the Saw can be Ground Thinner on the Back, and it Does not Bind in the Kerf, Being Two Gauges Heavier and Consequently Stiffer at the Ends the Operators can Push as well as Pull without Causing it to "Buckle."



MEDIUM CHAMPION TOOTH

No. 315—Length, Feet.

	5	5½	6
Each	$4 30	5 10	5 90
	$8.60	10.20	11.80

Twenty-five in a wood case.

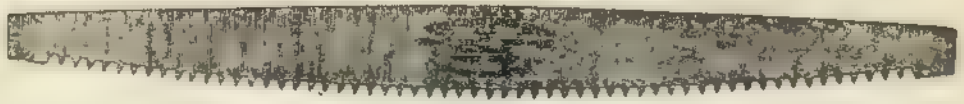
PERFORATED LANCE TOOTH

No. 326—Length, Feet.

	5	5½	6
Each	$4 30	5.10	5 90
	$8.60	10.20	11.80

Twenty-five in a wood case.

CROSS-CUT SAWS



DISSTON'S PLAIN OR PEG TOOTH

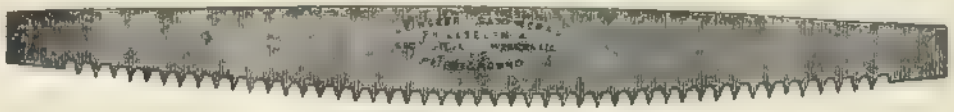
No. 91—Four Gauges Thinner on Back than on Teeth

Length, Feet	4	4½	5	5½	6	6½
Each	$2.60	2.92	3.25	3.50	3.90	4.22
	$5.20	5.85	6.50	7.15	7.80	8.45

No. 92—Two Gauges Thinner on Back than on Teeth.

Length, Feet	4	4½	5	5½	6	6½
Each	$2.40	2.70	3.00	3.30	3.60	3.90
	$4.80	5.40	6.00	6.60	7.20	7.80

Twenty-five in a wood case

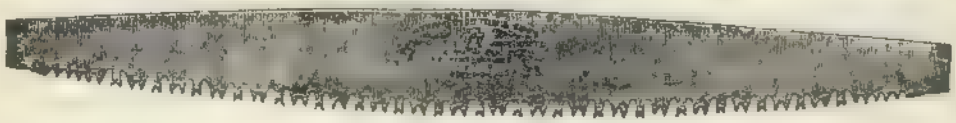


REINDEER, PLAIN TOOTH

No. 94—Four Gauges Thinner on Back than on Tooth Edge

Length, Feet	3	3½	4	4½	5	5½
Each	$3.20	3.70	4.25	4.80	5.20	5.80

Twenty-five in a wood box



DISSTON'S CHAMPION TOOTH

No. 81C—(1) **Coarse Tooth.** Four Gauges Thinner on Back than on Teeth.

Length, Feet	4½	5	5½	6
Each	$2.92	3.25	3.57	3.90
	$5.85	6.50	7.15	7.80

No. 81M—(1) **Medium Tooth.** Four Gauges Thinner on Back than on Teeth

Length, Feet	4½	5	5½	6
Each	$2.92	3.25	3.57	3.90
	$5.85	6.50	7.15	7.80

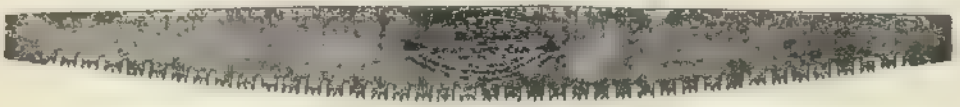
No. 82C—(2) **Coarse Tooth.** Two Gauges Thinner on Back than on Teeth

Length, Feet	5	5½	6
Each	$3.00	3.30	3.60
	$6.00	6.60	7.20

No. 82M—(2) **Medium Tooth.** Two Gauges Thinner on Back than on Teeth.

Length, Feet	5	5½	6
Each	$3.00	3.30	3.60
	$6.00	6.60	7.20

Twenty-five in a wood case.

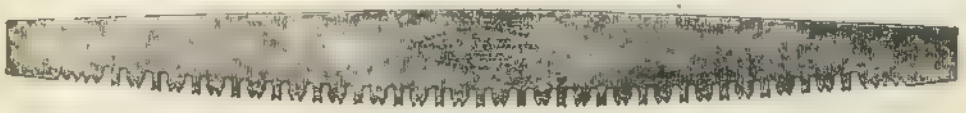


DISSTON'S GREAT AMERICAN TOOTH

No. 55—Five Gauges Thinner on Back than on Teeth.

Length, Feet	4	4½	5	5½	6	6½
Each	$3.00	3.38	3.75	4.13	4.50	4.88
	$6.75	7.60	8.20	9.25	10.05	10.90

Twenty-five in a wood case.



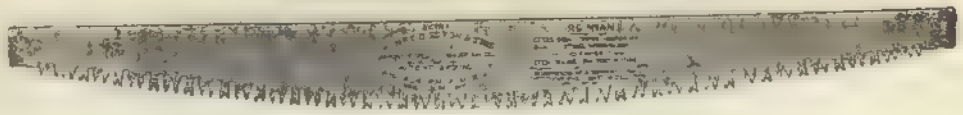
DISSTON'S TUTTLE TOOTH

No. 51—Four Gauges Thinner on Back than on Teeth.

Length, Feet	5	5½	6	6½
Each	$3.25	3.57	3.90	4.22
	$6.50	7.15	7.80	8.45

Twenty-five in a wood case.

CROSS-CUT SAWS



DISSTON'S VIRGINIAN

No. 489—Six Gauges Thinner on Back than on Teeth.

Length, Feet	5	5½	6	6½
Each	$8.70	9.80	11.30	13.10

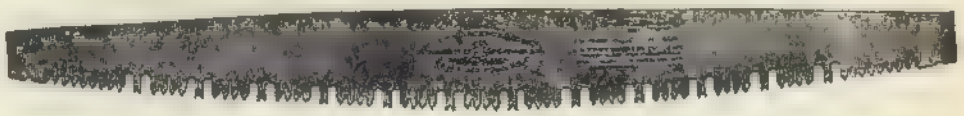
Twenty-five in a wood case.

DISSTON'S SUWANEE

No. 495—Six Gauges Thinner on Back than on Teeth.

Length, Feet	5	5½	6	6½
Each	$4.70	9.80	11.30	13.10

Twenty-five in a wood box.



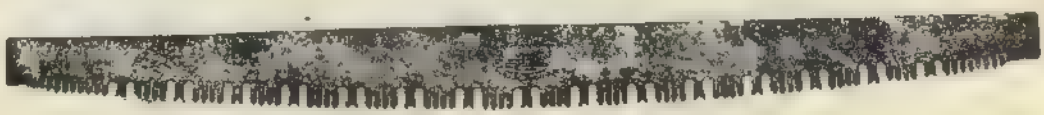
DISSTON'S PERFORATED LANCE TOOTH

No. 477—Four Gages Thinner on Back than on Tooth-edge.

Length, Feet	5	5½	6	6½
Each	$7.80	14.00	9.35	10.15

Twenty-five in a wood case.

DISSTON'S BUZZ



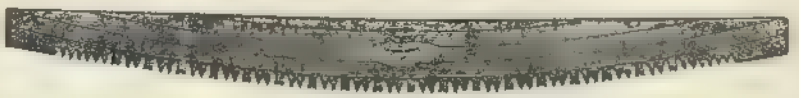
Crucible Steel Five Gauges. Thinner on Back Than on Tooth Edge.

Length, Feet	5	5½	6
Width at Center	$4.20	9.80	11.30
Each			

Twenty-five in a wood case.

CROSS-CUT SAWS

The Improvement in the Simond's Crescent Ground Cross-Cut Saw Consists in Grinding the Saw in Crescent Lines Parallel to the Cutting Edge, in which Case the Teeth are of Even Thickness Throughout the Entire Length of Saw, while the Ends are Increased Two Gauges in Thickness. In Consequence, the Saw can be Ground Thinner on the Back, and it Does not Bind in the Kerf. It Requires Less Set, for Each Tooth Does ▬ Equal Amount of Work and has Equal Thickness or Strength to Hold the Set Required for Clearance. Being Two Gauges Heavier, and Consequently Stiffer at the Ends, the Operators can Push as well as Pull without Causing it to "Buckle."



SIMOND'S CRESCENT GROUND CHAMPION TOOTH

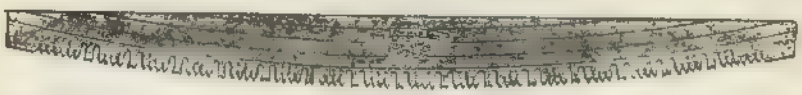
No. 12—Coarse Tooth. Best Cast Steel. Canada Pattern.

Length, Feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80
	$8.60	10.20	11.80	13.60

No. 12—Medium Tooth. Best Cast Steel. Canada Pattern.

Length, Feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80
	$8.60	10.20	11.80	13.60

Twenty-five in a wood case.



SIMOND'S CRESCENT GROUND PERFORATED LANCE TOOTH

No. 22—Best Cast Steel.

Length, Feet	5	5½	6	6½
Each	$4.30	5.10	5.90	6.80
	$8.60	10.20	11.80	13.60

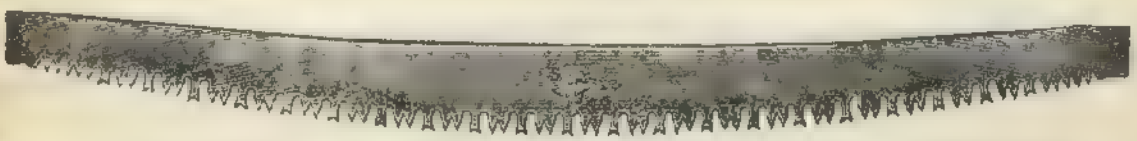
Twenty-five in a wood case

SIMOND'S BAY STATE PERFORATED LANCE TOOTH

No. 206—Best Cast Steel

Length, Feet	5	5½	6
Each	$7.20	8.95	4.75

Twenty-five in a wood case.



SIMOND'S FELLING TUTTLE TOOTH

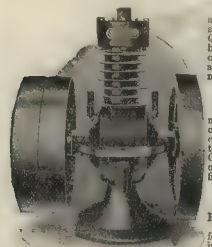
No. 113—Best Cast Steel

Length, Feet	4½	5	5½	6
Each	$7.20	8.80	10.20	11.80

Twenty-five in a wood case.

Kelley-How-Thomson Co. of Duluth
AIR COMPRESSORS

Designed Especially for Automobile Garages, Electric Motor Cleaning, Water Systems, Machine Shops, Foundries and All Other Purposes Requiring not over 6½ or 13 cu. ft. of Free Air per Minute at not exceeding 300 lbs. Pressure.



The No. 0 Compressor is a small compressor built to furnish air at high pressure. All Bushings and Bearings are of Bronze; and both Crankshaft and Connecting Rod are of the Best Quality Forged Steel. There is a perfect balance maintained between the tight and loose pulley on one side and the Fly-wheel on the other. These three features alone—to be found in few, if any, other small compressors—indicate the care which is taken to make the Air Compressor give long and perfect service.

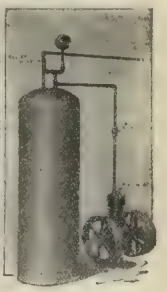
Its Efficiency

The Air Compressor is built to take care of itself. It is all metal—no leather packing or washers to wear out. It is air-cooled—no freezing, no troublesome tanks, water jackets, or pipe connections. The location of the pipes in the crank case, permitting the fanning process both inside and out, enables the Air Compressor to develop its remarkable speed and pressure without overheating. Its valves are easily removable by taking out only five bolts and without breaking pipe connections.

Its Reliability

The Air Compressor is thoroughly tested under 300 Lbs. Pressure before it is pronounced ready for shipment.

The Air Compressor is built of the best materials obtainable for the purpose, under the hands of expert machinists. All moving parts are given an ample margin of mass and strength to withstand exceptional strain. Cylinders are made of a special carbon cast iron.



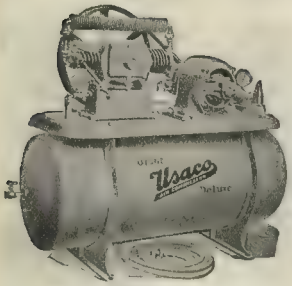
Power Required—1½ H. P.
Pressure—Constant Pressure at over 200 Lbs. Without Overheating.
Capacity—6½ cubic feet of Free Air per Minute at 400 Revolutions.
Crank Shaft—Forged High Carbon Steel.
Connecting Rod—Forged High Carbon Steel.
Cap—Forged High Carbon Steel.
Bearings—Bronze (Very Best Grade).
Bushings—Bronze (Very Best Grade).
Cylinder—3 inch Bore.
Piston—4 in. Stroke—Three Eccentric Rings, Two at One End, One at the Other End.
Valve—New Type—Accessible by Removal of but Five Bolts, with No Breaking of Pipe Connections.
Gaskets—Best Quality Asbestos.
Pulleys—Tight and Loose—13 in. Diameter—2 in. Crown Face; Weight about 20 Lbs. Each.
Fly-Wheel—14 in. Diameter—Weight about 40 Lbs.—to Balance Perfectly and give Absolutely Even Wear on Bearings.
Lubrication—Splash.
Air Intake—Diameter ¾ in.—21 in. above the Floor (to Avoid Dust).
Air Outlet—Diameter ½ in.
Maximum Pressure Guaranteed—300 Lbs.
Hight—21 in. Overall.
Floor Space Required—14x18 in.
Weight—130 Lbs.
Speed Recommended—400 Revolutions per Minute.

COMPLETE OUTFITS

One No. 0 Air Compressor.
One 10x48 in., 41 Gal. Tank.
One Model "B" Iron Case Gauge.
One ¼ in. No. 76 Check Valve.
One ¾ in. No. 72 Safety Valve.
One ½ in. No. 86 Needle Valve.

	Each
Outfit as listed above	$90 00
No. 0—Single Acting Compressor Only	50 00

Kelley-How-Thomson Co. of Duluth
AIR COMPRESSORS

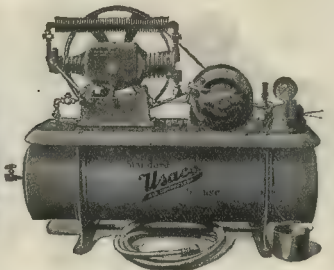


GIANT "USACO" DE LUXE

A Completely Automatic, Self-Contained Unit consisting of Two Stage Compressor with Cylinders 3x3 in and 1½x3 in., 1 H. P. of Standard Quality, Automatic Electric Controller, Automatic Air Purifier, 60 Gallon Tank, Automatic Pressure Release, Pressure Gauge, leak proof check valve, needle point valve, 25 feet Best Quality Hose, and Automatic Air Chuck, all complete and ready to run when attached to electric current 3 phase. Weight 700 Lbs. Dimensions, 51x27x50

Each

No. 7—Capacity 7 Cu. Ft. per Minute..... $455.00

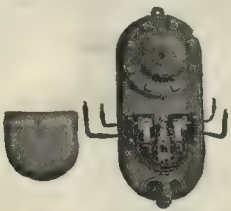


STANDARD "USACO DE LUXE"

A Completely Automatic Self-Contained Unit consisting of Two Stage Compressor, with Cylinders 3x3 in. and 1½x3 in., ½ H. P. Motor of Standard Quality, Automatic Electric Controller, Automatic Air Purifier, 30 Gallon Tank, Automatic Pressure Release, Pressure Gauge, leak proof check valve, needle point valve, 25 feet Real Quality Air Hose and Automatic Air Chuck, all complete and ready to run when attached to electric current Shipping Weight, 640 Lbs. Dimensions, 48x30x40

Each

No. 4—Capacity 4 Cu. Ft. per Minute..... $343 75



U. S. AUTOMATIC ELECTRIC CONTROLLER

This is one of the simplest Controllers to install and it is absolutely dependable in operation, requiring no attention whatever. It contains no delicate mechanism to get out of order, or rubber diaphragms to deteriorate. It is constructed entirely of metal, is rigid and simple in design. It starts and stops the motor at the predetermined pressure. Can be adjusted to maintain any desired pressure within its range by tightening or loosening adjusting nut.

Although usually installed on wall back of outfit this controller can be placed in any position. For Single Phase, alternating or direct current the main line wires are connected with the tap wires, and wires run from bottom of controller down to motor. For three phase current the two tap wires are connected as above, and the third wire brought from the main line direct down to the motor. A small air line is then run from the tank or some other position on the main air line to the top of controller.

Each

Model H-2—U. S. Automatic Controller..... $31 25

AIR COMPRESSORS

"USACO" TWO STAGE AIR COMPRESSOR

With Tight and Loose Pulley for Line Shaft Drive

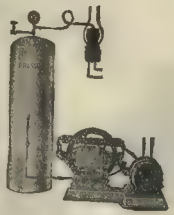
	Each
No. 31 —Equipment; Capacity 4 Cu. Ft. per Minute...	$ 93 75
No. 41—Equipment; Capacity 10 Cu. Ft. per Minute	143 75

Large Single Wheel for Direct Motor Drive

	Each
No. 32 -Equipment; Capacity 4 Cu. Ft. per Minute	$ 93.75
No. 42—Equipment, Capacity 10 Cu. Ft. per Minute	143 75

Equipment 31 and 41 vary only in size and capacity. They are adapted for Line Shaft work and are stopped and started by shifting belt from one pulley to the other.

Equipment 32 and 42 have large wheel for direct motor drive, and are adapted for use with tank and automatic controller.

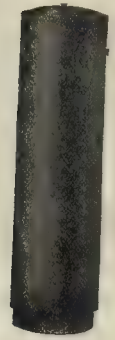


"USACO" TWO STAGE AUTOMATIC AIR UNITS

"Usaco" Two Stage Complete Air Units

	Each
No. 34—Equipment: Capacity 4 Cu. Ft. per Minute	$316 25
No. 44—Equipment; Capacity 10 Cu. Ft. per Minute	425 00

Automatically maintains air supply at the desired pressure. Suitable for Garages, Free Air Stations, or other air requirements within their capacities.



BUTLER PRESSURE TANK

Absolutely leak proof, all seams welded; Butler Pressure Tanks are all made with both ends bilged out, thus providing a strong substantial, sturdy job. Note the neat circular stand upon which the tank rests securely when installed in vertical position; Stand is securely welded to tank and is a very substantial base; Each stand is provided with four holes, one placed each quarter way round, to take care of drain pipe. No extra charge is made for stand; This tank is made of very heavy material, and the Butler system of welding makes the seam even stronger than the metal. Unless otherwise specified, tanks are furnished for vertical use; Tappings are welded and in standard tanks are as follows: One 1¼ in. pipe connection opening in center of each end and a ¾ in. pipe connection 6 inches from top in the side, all tanks painted outside with a coat of special metal paint to prevent corrosion.

Sizes, Inches	Capacity Gallons	Working Pressure, Pounds	Weight, Pounds	Each
12x36	47	300	65	$21.00
14x48	32	200	90	25.50
14x60	40	200	105	28 00
*16x48	41	300	130	32 50
16x72	62	300	150	36.00
18x60	66	200	150	40 00
18x72	79	200	175	44.00
*20x60	81	200	205	48.00
20x72	97	200	260	54 00
24x72	141	150	305	70 00
			370	83.50

* Sizes carried in stock at Duluth; Balance from factory on short notice.

Kelley-How-Thomson Co. of Duluth
AIR COMPRESSORS

BRUNNER GARAGE AIR COMPRESSORS

No. 102—TWO-CYLINDER BELT DRIVEN AIR COMPRESSOR

No. 102 Belt Driven Compressor

This is the standard Air Compressor for garage service and will deliver more air at higher pressure with less power than any other compressor of equal rating on the market.

We recommend this machine for garages housing up to 60 cars and to be used with air tanks up to 50 gal. capacity.

Requires ½ H. P. for operation, delivers 3 cu. ft. free air per minute at 400 R. P. M. and 175 lbs. pressure. Tested to 300 lbs.

Adjustable safety valve on each cylinder.

Net Weight 38 lb. Shipping Weight 46 lbs. Height 13 in. Floor Space 6½x10 in.

	Each
No. 102 Compressor with 8 in. Tight Pulley only	$ 43 50
No. 102 Compressor with 9 in. Tight and Loose Pulleys	48 50
No. 102 Compressor with 14 in. Tight Pulley only	45 00
No. 102 Compressor with 9 in. Pulley and Clutch (as illustrated)	52 00

BELT DRIVEN GARAGE OUTFIT NO. 1

For Garages Housing up to 40 Cars and Large Vulcanizing Shops

	Each
1 No. 102 Belt Driven Air Compressor, 9 in. Tight and Loose Pulleys	$ 48 50
1 50 Gal. 16x80 in. Galvanized Air Tank for 150 lbs. Working Pressure	28 00
1 Model "B" Air Gauge	1 50
1 No. 70 Horizontal Check Valve, ¼ in.	3 00
1 No. 72 Safety Valve for Air Tank	75
1 No. 83 ¼ in. Needle Valve	1 80
1 No. 80 ¼ in. Needle Valve	1 80
1 No. 82 ¼ in. Needle Valve with Swivel Hose Connection	2 50
2 Specially Ground Brass Unions, ¾ in. and ⅜ in.	1 75
1 Automatic Tire Connection	75
1 25 ft. Drop Line ⅜ in. "Resisteil" Air Hose	4 50
	$110.45

No. 50 Portable Electric Outfit

No. 50—PORTABLE ELECTRIC OUTFIT

This is a very high grade, practicable Portable Air Compressor Outfit, entirely complete with all fittings and accessories ready to operate upon removal from shipping crate.

It has a powerful ¼ H. P. electric motor that can be operated from any Lighting circuit and which will readily start the 1 cu. ft. compressor against a pressure of 120 lbs. and drive the pressure to 175 lbs. The tank is 12x30 in. and of seamless drawn steel construction.

This outfit when filled to 160 lbs. pressure will fully inflate two 35x4½ in. tires to 90 lbs. without recharging. It is heavily constructed to meet severe conditions.

Net Weight 230 lbs. Shipping Weight 330 lbs. Height 32 in. Floor Space 20½x36 in.

	Each
No. 50 with 110-220 Volt 60 Cycle 1 Phase A. C. Motor	$190 00
No. 50 with 110-220 Volt 25 Cycle 1 Phase A. C. Motor	190 00
No. 50 with 110 or 220 Volt Direct Current Motor	185 00
No. 50 with 32 Volt Direct Current Motor	

A. C. Motors other frequency at additional charge.

AIR COMPRESSORS

BRUNNER MOTOR DRIVEN AIR COMPRESSORS

No. 45 Motor Driven Compressor

No. 45—MOTOR DRIVEN COMPRESSOR

A machine of intermediate capacity between the No. 42 and No. 47 Brunner models, employing the new Brunner No. 105 direct geared to 1½ H. P. motor through cloth pinion and cut cast iron spur gear, with heavy iron base and proper gear guard. Capacity of 5 cu. ft. free air per minute is ample for large garages, for pneumatic truck tire service and for certain shop work.

Compressor is two-cylinder, 2½x3 in., air-cooled, of balanced load type. The motor, gears and base are similar in general to same parts of the Brunner No. 42 and this new machine will be found very efficient.

Recommended for use with storage tanks up to 100 gals. and for pressure up to 200 lbs., in connection with automatic controller.

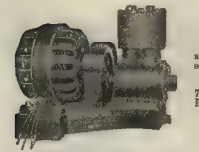
Height 20 in. Floor Space 22x26 in. Net Weight 310 lbs. Shipping Weight 360 lbs.

	Each
With 220-440 Volt, 2 or 3 Phase, 60 Cycle A. C.	$240.00
With 220-440 Volt, 2 or 3 Phase, 25 Cycle A. C.	270.00
With 110-220 Volt, 1 Phase, 60 Cycle A. C. Motor	275.00
With 110 or 220 Volt, Direct Current	240.00
A. C. Motors of other frequency at additional charge.	

MOTOR DRIVEN GARAGE OUTFIT NO. 170

For Large Service Stations

1 No. 45 Compressor with 220-440 Volt, 2 or 3 Phase, 60 Cycle, A. C. Motor	$240.00
1 80 Gal. 18x72 in. Galvanized Air Tank for 150 lbs. Working Pressure	70.00
1 Model "B" Air Gauge	3.00
1 No. 70 ½ in. Horizontal Check Valve	6.00
1 No. 72 Safety Valve for Air Tank	2.75
1 No. 84 ½ in. Needle Valve	3.00
1 No. 83 ¾ in. Needle Valve	1.80
1 No. 82 ½ in. Needle Valve with Swivel Hose Connection	2.10
2 Specially Ground Brass Unions, ½ in. and ¾ in.	1.85
1 Automatic Tire Connection	1.00
1 25 ft. Drop Line ¾ in. "Resistol" Air Hose	4.50
	$336.50
1 Model "M" Controller to make outfit automatic (Optional)	32.00
	$368.50



No. 47 Motor Driven Compressor

No. 47—MOTOR DRIVEN COMPRESSOR

A heavy duty machine for large garages and especially adapted to pneumatic truck tires service. With appropriate tank and fittings the No. 47 will serve the largest garage having frequent demand for air at several outlets.

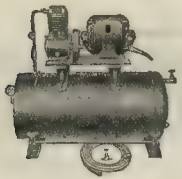
Compressor is Brunner No. 17 2 cylinder, water-cooled, balanced load type, with displacement of 7 cu. ft. free air per minute. Motor is 2 H. P. Drive is through cloth pinion and cut cast iron spur gear. Power plant is mounted on heavy iron base and carries substantial gear guard.

Height, No. 47, 22 in. Floor space 25x22 in. Weight, Net, 350 lbs. Shipping Weight 410 lbs.

	Each
With 220-440 Volt, 2 or 3 Phase, 60 Cycle A. C. Motor	$300.00
With 220-440 Volt, 25 Cycle, 2 or 3 Phase A. C. Motor	337.00
With 110 or 220 Volt, Single Phase 60 Cycle A. C. Motor	340.00
With 110 or 220 Volt Direct Current Motor	300.00
A. C. Motors of other frequency at additional charge.	
Model "M" Controller can be used with No. 47 A. C. but not with D. C.	
Model "E" Controller is specified for No. 47 D. C.	

5224 *Kelley-How-Thomson Co. of Duluth*
AIR COMPRESSORS

"BRUNNER"



No. 542—MOTOR DRIVEN OUTFIT

This Compressor Assembly needs no introduction to the garage trade, having been already installed in many service stations throughout the country by progressive concerns during the past five years. The unusual efficiency of this outfit is attributed to the correct assembly of the whole, employing standard Brunner parts.

The Compressor is the Standard No. 102 with capacity of 2¼ cu. ft. free air per minute direct geared to a ½ H. P. motor. The cloth driving pinion is employed with cut cast iron spur gear reducing the gear hum to a minimum. The power plant is mounted on a substantial iron base which surmounts a 32 gallon Brunner air tank recommended for 150 lbs. working pressure.

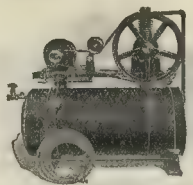
Construction is entirely of metal, there being no wooden parts which might warp or crack and throw the power plant out of alignment. Equipment as illustrated is furnished and this machine is ready for use when uncrated. Hose may be attached to fittings as shown or pipe line may be extended to any part of the building.

In connection with automatic controller, this machine is recommended for garages housing up to 50 cars.

Height 34 in. Floor space 18x36 in. Net Weight 310 lbs. Shipping Weight 385 lbs.

	Each
With 1 Phase, 60 Cycle, 110-220 Volt, A. C. Motor	$225 00
With 110-220 Volt, 25 Cycle, 1 Phase, A. C. Motor	245 00
With 110 or 220 Volt Direct Current Motor	210 00
With 32 Volt D. C. Motor	215 00

A. C. Motors of other frequency at additional charge.



No. 742—MOTOR DRIVEN OUTFIT

This Assembly was developed to meet the demand for an outfit duplicating the efficiency and economical operation of the No. 542 but employing belt drive to eliminate the gear hum of the latter type. General construction is the same as the No. 542 with appropriate changes in the design of the base to accommodate the belted construction.

The No. 102 (2¼ cu. ft. free air per minute capacity) is belted to a ½ H. P. motor with efficient belt tightener. The power plant is assembled on a heavy iron base, the whole being mounted on a 32 gallon Brunner tank tested to 300 lbs. and suited for 150 lbs. working pressure.

Metal construction is used throughout. The excellent assembly achieved by experienced mechanics at the factory is therefore rigidly maintained and the alignment of the power plant is permanent.

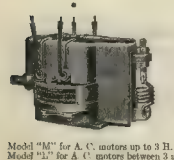
This model is particularly suited to filling stations for sales rooms where noise of gear drive would be objectionable. Garages housing not more than 50 cars will find this machine ample if controlled with Brunner automatic controller.

Height 34 in. Floor Space 18x36 in. Net Weight 325 lbs. Crated. 4[illegible] lbs.

	Each
With 1 Phase, 60 Cycle, 110-220 Volt A. C. Motor	$235 00
With 110-220 Volt, 25 Cycle, 1 Phase A. C. Motor	235 00
With 110 or 220 Volt Direct Current Motor	220 00
With 32 Volt D. C. Motor	225 00

A. C. Motors of other frequency at additional charge.

BRUNNER AUTOMATIC PRESSURE CONTROLLERS



In connection with any motor driven compressor outfit up to 5 H. P. a Brunner Controller will automatically maintain tank pressure at any pre-determined maximum up to 200 lbs. Usual setting is for 145 lbs. maximum and 120 lbs. minimum but maximum setting may be adjusted. At any setting, however, the "cut-in" will be 25 lbs. below the "cut-out" pressure.

The Brunner Controller is furnished in three models, suited to various motors. These may be used with any motor driven outfit, Brunner or other makes. They are reliable, accurate, safe and durable.

A Controller saves profitable time, insures service to your customers, avoids dangerous pressures, and saves current by operating compressor only when air is needed.

	Each
Model "M" for A. C. motors up to 3 H. P. (inclusive, or D. C. motors up to ½ H. P. inclusive, for voltage not more than 440	$32 00
Model "1" for A. C. motors between 3 and 5 H. P.	40 00
Model "2" for D. C. motors 3¼ H. P. to 3 H. P. (inclusive), for current up to and including 440 volts	90 00

Kelley-How-Thomson Co. of Duluth
AIR COMPRESSORS
CURTISS GARAGE AIR COMPRESSORS
"Air Free From Oil"

The selection of your Air Compressor has much to do with the success or failure of the service you render your customer.

PURE AIR for your customer means good service, because oil ruins tires, and AIR FREE FROM OIL means fewer blowouts—fewer punctures—greater tire mileage—less repairs; saves them many dollars upkeep every month.

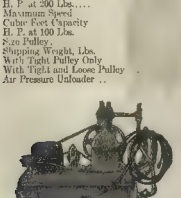
EXCLUSIVE CURTIS FEATURES

1. Controlled-splash, self-oiling system. No excess of oil in cylinder, as external leakage, nor waste of oil; no oil getsinto the tires. Enclosed crank case keeps out dust.
2. Uses about one-tenth of the oil used by any competing machine; owning in oil alone soon pays price of machine.
3. High and low level oil-filling gauge, so you can tell at a glance the amount of oil in the crank case.
4. Fan fly-wheel cools cylinder; increases capacity.
5. Inspectable valves, light weight, large area.
6. Valves cannot drop into cylinder and wreck machine.
7. Hand unloader permits starting compressor against full tank pressure without burning out motor, blowing fuses or burning or jumping of belt.
8. Drop forged crankshaft. Adjustable, renewable non-cutting die cast bearings.
9. Head removable without breaking or bending any pipe connection or pipe fittings; only one gasket.

The Curtis is the only Compressor whose design and construction gives any guarantee for pure air—that is, air free from oil; it is the only enclosed splash oiling machine in which only enough oil is permitted to reach the cylinder to properly lubricate it without any excess carried over in the discharge line. Our controlled-splash system, with the cylinder lubrication of the controlled-splash permanently regulated, insures AIR FREE FROM OIL.

Size	1	2	3	4	5
Bore and Stroke	1½x2	2¼x2½	2½x3	3x3½	4½x4½
Minimum Speed	500	*400	350	300	250
Cubic Feet Capacity	1 2	1 8	2 09	4 32	10 4
H. P. at 100 Lbs.	24	36	40	87	2 09
H. P. at 200 Lbs.	31	47	75	1 14	2 75
Maximum Speed	700	600	550	500	400
Cubic Feet Capacity	1 68	2 70	4 7	7 20	16 5
H. P. at 100 Lbs.	34	54	95	1 46	3 34
Size Pulley	9x1¾	11x2¼	12x2¼	14x2¾	22x3½
Shipping Weight, Lbs.	40	60	100	20	385
With Tight Pulley Only	$34 20	$57 80	$77 70	$56 40	$108 00
With Tight and Loose Pulley	37 80	41 40	81 30	54 00	128 00
Air Pressure Unloader		16 20	16.20	16.20	19 80

STYLE "X" MOTOR DRIVEN OUTFIT
Furnished Belted or Geared



Portable Outfits complete with tank give the advantage of storage in addition to portability and can be wheeled to otherwise inaccessible places.

Style and No.	Size Compressor	Motor H. P.	Size Tank, In.	No Motor, Belt, Pinion, nor Motor Pulley Price	No Motor, Belt, Pinion, nor Motor Pulley Wt.	Complete with Motor D. C. 110-220	Complete with Motor A. C. 60 cyc. Sg. Ph. 110-220	Complete with Motor A. C. 60 cyc. 2 or 3 Ph 110-220	Wt.	Deduct for Style V. See Note	Extra for Auto'tic Starting and Stopping Device
X-1a	1½x2	¼	12x36	$118 80	240	$190 80	$210 60	$210 60	315	$15 00	$40 00
X-2a	2¼x2½	½	12x36	141 60	260	232 20	250 20	232 20	385	15 00	40 00
X-3a	2½x3	¾	12x36	149 40	270	248 40	304 20	271 80	395	20 00	75 00
X-4	3 x3½	1	12x36	147 60	450	306 00	336 60	286 20	585	25 00	75 00
X-5	4½x4½	3	14x48	294 60	785	513 00	562 60	459 20	1105	30 00	90 00

STYLE "Z" MOTOR DRIVEN OUTFIT
Belted Only

This type of outfit has no advantage over the separate mounting excepting the self-contained feature which allows it to be moved from place to place as desired without disturbing any connection whatever.

Style and No.	Size Compressor	Motor H. P.	Size Tank, In.	No Motor, no Pinion, no Belt nor Motor Pulley Price	No Motor, no Pinion, no Belt nor Motor Pulley Wt.	Complete with Motor D. C. 110-220	Complete with Motor A. C. 60 cyc. Sg. Ph. 110-220	Complete with Motor A. C. 60 cyc. 2 or 3 Ph 110-220	Wt.	Extra for Auto'tic Starting and Stopping Device
Z-1a	1½x2	¼	12x36	$77 40	155	$114 60	$172 80	$172 80	276	$40 00
Z-2a	2¼x2½	½	12x36	86 40	185	134 40	212 40	194 40	415	40 00
Z-3a	2½x3	¾	14x48	99 00	280	216 00	271 80	223 20	440	75 00
Z-4a	3 x3½	1	14x48	102 60	305	252 00	282 60	243 20	490	75 00
Z-4b	3 x3½	1	16x60	115 20	485	264 60	295 20	244 80	570	75 00
Z-5	4½x4½	3	16x60	169 20	645	468 00	507 60	361 80	920	90 00
Z-5a	4½x4½	3	20x60	187 20	745	486 00	525 00	379 80	1030	90 00

AIR COMPRESSOR FITTINGS

Good fittings are as essential as a good compressor. Don't retard the effectiveness of a good compressor with a leaky tank or fitting of any description. Select your entire outfit from our list, and insure a perfect working, satisfactory outfit to be the best that money can buy and our prices are very little, if any, more than for inferior grades.

NEEDLE VALVES

Designed for use in place of an ordinary Air Stop Cock.

This Valve is heavily constructed of brass designed for use on compressed air lines, carrying pressure up to 175 lbs. Either ¼ in. or ⅜ in. male connection on one end to screw into pipe line and swivel hose connection on the other end to fit either ⅜ in. or ½ in. hose.

A reliable fitting much handier than a stop cock.

Each

No. 82—With either ¼ in. or ⅜ in. Male Connection.....$2.10

Weight about 1 Lb.

NEEDLE VALVES

This valve is very similar to the No. 82 but is for use in the pipe line, doing away with an ordinary globe valve. This valve is air tight, and with proper care, will stay tight indefinitely.

Both ends have female connections, tapped for either ¼ in. or ⅜ in. iron pipe.

Each

No. 83—With either ¼ in. or ⅜ in. Female Connection..... $1 80

Weight about 1 Lb.

This Valve is of exactly the same construction as the No. 83 Needle Valve, but is made in ½ in. size only.

Each

No. 84—With ½ in. Female Connection..... .....$3 00

Weight Each about 1 Lb.

SAFETY VALVE

This is an Adjustable Safety Valve having a ball seat, and is air tight. The tension of the spring can be readily adjusted to blow off at any desired pressure up to 175 lbs. and is very reliable. It is made entirely of brass and is very durable. To be used on air tanks carrying a high pressure. Always set for 150 lbs. when shipped unless otherwise specified.

Each

No. 72—With either ¾, ⅜ or ½ in. Male Connection.....$2.75

VERTICAL CHECK VALVE

This Check Valve is made especially for air lines and should always be used in a vertical position. This valve will give very good service and is well constructed fitting.

Each

No. 75—With either ¼ or ⅜ in. Female Connection $1 80

Weight Each about 2 Oz.

This is exactly similar to the No. 75, but is larger and made with ½ in. female connections only.

Each

No. 76—With ½ in. Female Connection..... . . . $3.00

Weight Each about 2 Oz.

HORIZONTAL CHECK VALVE

A radically different design distinguishes this from other check valves. Will outwear several ordinary valves and is more perfect as to tightness. The No. 70 should be installed wherever a horizontal valve is permissible. ¼, ⅜ or ½ in. female connections.

Each

No. 70A—With ¼ or ⅜ in. Connections.....$3.00

No. 70B—With ½ in. Connection..... 3.00

BRUNNER AIR PRESSURE GAUGES

These Gauges are exceptionally well made, especially designed for air pressure, and are graduated to 200 lbs.

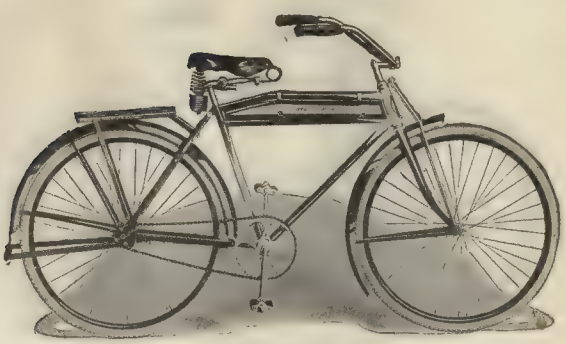
They are made in Polished Brass Case with Bevel Glass and in Iron Case with Brass Ring. They are of heavy construction and extremely accurate.

In 6 Case is 2½ in. diameter, and has bottom male connection for ¼ in. iron pipe.

Each

Model B—Iron Case..... . . . . $3 00

BICYCLES



WORLD MOTORBIKE

The Strongest and Easiest Running Heavy Service Bicycle Ever Built

Frame.—Flush joint, 1 in., high carbon steel tubing, extra heavy and strongly reinforced 22 in. frame measuring 20 in. at seat post.

Twenty in. frame measures 18 in. at seat post.

Wheels.—28 in.

Truss Fork.—Motorcycle style as illustrated, made of 17 gauge high carbon steel tubing, handsomely decorated.

Crank Hanger.—Drop forged, one piece, 7 in.; can be removed without disturbing cups.

Finish.—Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats hand rubbed.

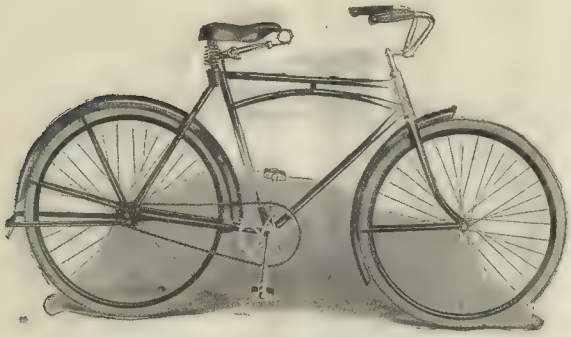
Front Hub.—New Departure.
Coaster Brake.—New Departure.
Rims.—One-piece maple enameled to match frame.
Chain.—½ in. roller.
Spokes.—Highest Quality, 36 in both front and rear.
Tires.—Kokomo Rubber Company's guaranteed **Everlaster** single tube
Handle Bar.—Motorcycle style, adjustable extension, long rubber grips
Saddle.—Motorbike style.
Pedals.—Rubber.
Metal Tank.
Guards.—Deep drop sides.
Stand.—Patented armless.
Package Carrier.—Strongly made, detachable.

No Tools or Tool Bags are Supplied

	Each
No. 110—Complete with Tank and Carrier	$60 00
No. 109—Without Tank and Carrier.. .	57 50

Approximate Shipping Weight, Crated, 65 Lbs.

BICYCLES



WORLD ARCH TRUSS

Frame.—One in. high carbon steel tubing, 19 gauge, strongly reinforced flush joints.

Arch Truss.—Curved Truss bar, bridge pattern.

Height.—20 or 22 in.

Wheels.—28 in.

Front Fork.—Drop forged crown, seamless fork sides. 17 gauge.

Crank Hanger.—Diamond pattern, one piece, drop forged 7 in. Can be removed without disturbing cups.

Finish.—Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats, hand rubbed.

Front Hub.—New Departure.

Coaster Brake.—New Departure.

Rims.—One-piece maple, enameled to match frame.

Chain.—½ in. roller.

Spokes.—Highest quality, 36 in both front and rear.

Tires.—Kokomo Rubber Company's guaranteed **Everlaster,** single tube

Handle Bar.—Adjustable, forward extension with long rubber grips.

Saddle.—Motorbike style.

Pedals.—Rubber.

Guards.—Deep drop sides.

Stand.—Patented armless.

No Tools or Tool Bags are Supplied

The Strongest Bicycle Frame in Proportion to Weight ever built. A Scientifically Designed Frame Giving Maximum Strength at All Points

	Each
No. 111—Complete as listed above	$55 00

Approximate Shipping Weight, 60 Lbs.

BICYCLES

WORLD

Frame.—22 in., measuring 20 in. at the seat post mast, on account of 2 in. drop in top bar, made of one in. 19 gauge high carbon steel tubing. Flush joints.

Wheels.—28 in.

Fork. Trussed motorcycle style, extra strong, drop forged crown; seamless fork sides. 17 gauge.

Crank Hanger.—Drop forged one-piece, 7 in. cranks, removable without disturbing cups.

Finish.—Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats, hand rubbed.

Front Hub.—New Departure.

Coaster Brake.—New Departure.

Rims.—One-piece maple, ensembled to match frame.

Chain.—½ in. roller.

Spokes.—Highest quality, 36 in both front and rear.

Tires. Kokomo Rubber Company's **Everlaster** guaranteed single tube.

Handle Bar.—Adjustable, forward extension with long rubber grips.

Saddle.—Motorbike style.

Pedals.—Rubber.

Guards.—Drop side, front and rear.

Stand.—Patented armless.

No Tools or Tool Bags are Supplied

This Machine is Especially Designed for Short, Stout Men or growing Boys too old for juvenile models and who buy for the future. A man's Machine of Highest Grade Throughout with Extra Low Saddle Position, Curved Frame with Truss Bar and Trussed Fork, built to Meet All Requirements of Heavy Riders or Hard Service.

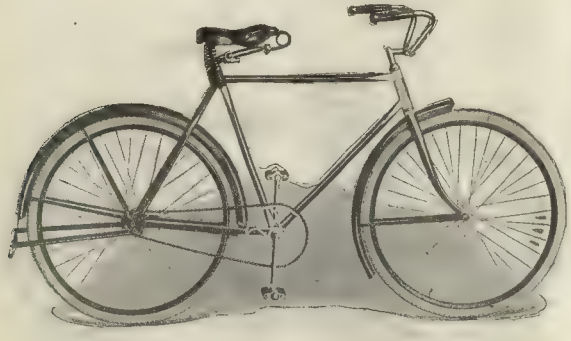
Each

No. 107—Complete as Listed Above..... $58.50

Approximate Shipping Weight, about 60 Lbs.

Kelley-How-Thomson Co. of Duluth

BICYCLES



WOMEN

Frame.—Either 20 or 22 in.; 1 in. 19 gauge, high carbon steel tubing, oval rear stays and forks; flush joints.

Wheels.—28 in.

Forks. Drop forged crown, seamless fork sides, 17 gauge.

Crank Hanger.—Drop forged, Diamond pattern, one-piece, 7 in. cranks; removable without disturbing cups.

Finish.—Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats, hand rubbed.

Front Hub.—New Departure.
Coaster Brake.—New Departure.
Rims.—One-piece enameled to match frame.
Spokes.—Highest quality, 36 in both front and rear.
Chain.—½ in. Roller.
Tires. Kokomo Rubber Company's guaranteed **Everlaster** single tube.
Handle Bar. Adjustable, forward extension with long rubber grips.
Saddle.—Motorbike style.
Pedals.—Rubber.
Guards.—Deep drop side.
Stand.—Patented armless.

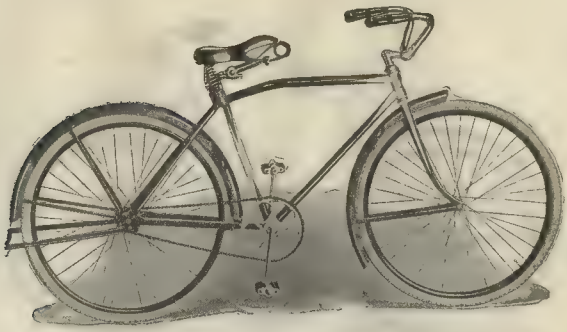
No Tools or Tool Bags are Supplied.

The Highest of Bicycle Quality. A Machine Unequalled in Material, Workmanship and Finish. Built for the Discriminating Buyer who Wants the Best that can be produced

	Each
No. 106—Complete as Listed Above	$50 00

Approximate Shipping Weight, 60 Lbs.

BICYCLES



WORLD BOYS' SPECIAL

Frame.—Built on regular 20 in. Diamond frame lines, but with 2 in. drop of upper bar, at seat post mast, thus making a specially desirable model with full size wheels and tires. Made of 1 in. 19 gauge high carbon steel tubing, flash joints.

Wheels.—28 in.

Fork.—Drop forged, oval crown seamless fork sides. 17 gauge.

Crank Hanger.—Drop forged; 7 in. cranks, one-piece; removable without disturbing cups.

Finish. Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats, hand rubbed.

Front Hub.—New Departure.

Coaster Brake.—New Departure.

Rims.—One-piece maple, enameled to match.

Chain.—½ in. roller.

Spokes.—Highest quality, 36 in both front and rear.

Tires.—Kokomo Rubber Company's **Everlaster** guaranteed single tube

Handle Bar.—Adjustable, forward extension with long rubber grips.

Saddle.—Motorbike style.

Pedals. Rubber.

Guards.—Deep drop side.

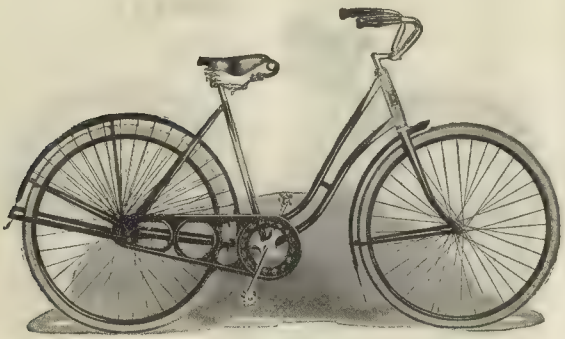
Stand.—Patented armless.

No Tools or Tool Bags are Supplied

	Each
No. 104—Equipped as Listed Above	$50.00

Approximate Shipping Weight, 60 Lbs.

BICYCLES



WORLD

Frame.—Drop pattern, 20 in. Made of high carbon steel tubing, reinforced. Flush joints.

Wheels.—28 in.

Front Fork.—Drop forged crown, seamless fork sides. 17 gauge.

Crank Hanger.—Drop forged, Diamond pattern, 6¼ in. one-piece cranks, removable without disturbing cups.

Finish.—Handsomely enameled in Red or Blue, decorated with fancy white head and seat post mast. Four coats, hand rubbed.

Front Hub.—New Departure.

Coaster Brake.—New Departure.

Rims.—One-piece maple, enameled to match frame.

Spokes.—Highest quality, 36 in both front and rear.

Chain.—⅜ in. roller.

Tires.—Kokomo Rubber Company's guaranteed **Everlaster** single tube.

Handle Bar.—Adjustable, forward extension with long rubber grips.

Saddle.—Ladies' Trophy triple coil spring.

Pedals.—Ladies' rubber.

Guards.—Front and rear, rear guard laced to protect skirts. Full chain guard covering front and rear sprocket.

Stand.—Patented armless.

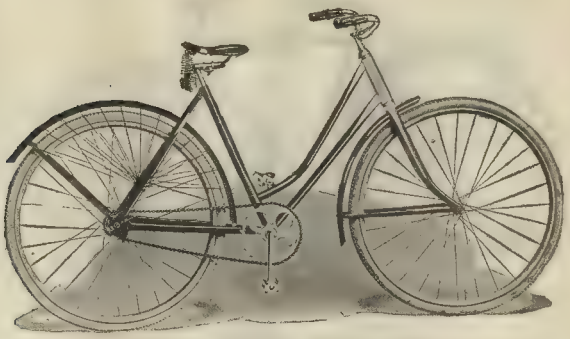
No Tools or Tool Bags are Supplied

The Finest Constructed and Most Highly Finished Ladies' Bicycle ever made

	Each
No. 103—Equipped as Above.....	$50 00

Approximate Shipping Weight, 65 Lbs.

BICYCLES



WORLD GIRLS' JUVENILE

A Strictly High Grade Ladies' Bicycle Built in Junior Sizes

Frame.—Either 14, 15 or 18 in., made of one-in. 19 gauge, high carbon steel tubing; flush joints throughout.

Wheels.—20, 24 or 26 in., according to frame size.

Fork.—Drop forged, crown, fork sides nicely tapered. 18 gauge.

Crank Hanger.—5¾ in. one-piece, nickel plated.

Finish.—Handsomely enameled in Red or Blue with white head. Four coats hand rubbed.

Front Hub.—New Departure.
Coaster Brake.—New Departure.
Rims.—One-piece maple, aluminum finish.
Chain.—½ in.
Spokes.—26 in each wheel.
Tires.—Juvenile, single tube, guaranteed.
Handle Bar. Juvenile adjustable, short rubber grips.
Saddle.—Juvenile coil spring.
Pedals.—Juvenile Rubber.
Guards.—Front and rear, rear has lacing.

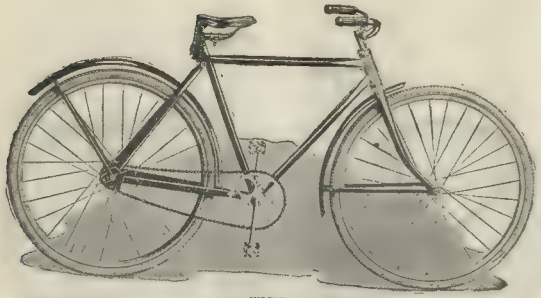
No Tools or Tool Bags are Supplied

	Each
No. 102—Equipped as Above	$47.00

Approximate Shipping Weight, 60 Lbs.

Kelley-How-Thomson Co. of Duluth

BICYCLES



WORLD

Frame.—Either 14, 16 or 18 in., made of one-in. 19 gauge, high carbon steel tubing; flush joints throughout.

Wheels.—20, 24 or 26 in., according to frame size.

Fork.—Drop forged crown, fork sides nicely tapered. 18 gauge.

Crank Hanger.—One-piece, 5½ in. crank, nickel plated.

Finish. Handsomely enameled in Red or Blue with white head. Four coats, hand rubbed.

Front Hub.—New Departure.

Coaster Brake.—New Departure.

Rims.—One-piece maple, aluminum finish.

Chain.—½ in.

Spokes.—28 in each wheel.

Tires.—Juvenile, single tube, guaranteed.

Handle Bar.—Juvenile adjustable, short rubber grips.

Saddle.—Juvenile coil spring.

Pedals.—Juvenile rubber.

Guards.—Front and rear.

No Tools or Tool Bags are Supplied

The Best Constructed and Most Highly Finished Juvenile Bicycle ever built. A Real Man's Bicycle Built in Boys' Size

No. 101—Equipped as Above..... Each $45.00

Approximate Shipping Weight, 60 Lbs.

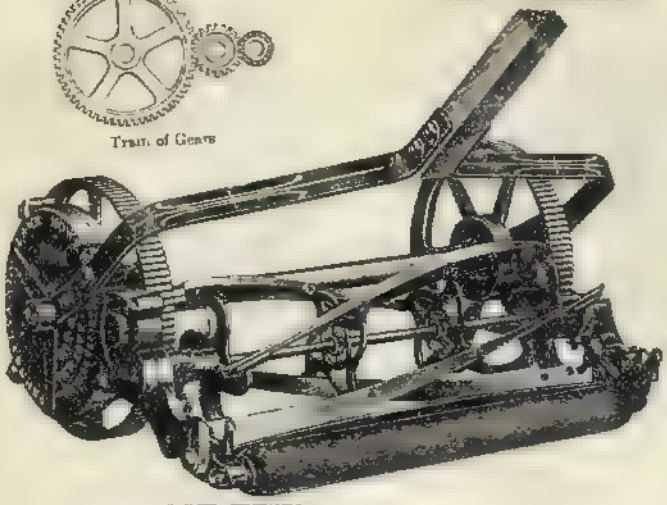
LAWN MOWERS

Prices on Request

PENNSYLVANIA

THE "STANDARD"

Train of Gears



Blades—Four Crucible Tool Steel. Oil Hardened and Water Tempered. Extra Wide.

Gears—Train of Triple, Giving Power and Speed.

Wheel Base—Extra Long. Cuts Smoothly Over Uneven Ground

Wheels—8 or 10½ inches. Open Spokes.

Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service.

Bottom Knife—Flat Pattern, Crucible Tool Steel Hardened and Tempered

Height of Cut—¾ to 1½ inch. Will Cut Grass Standing 6 Inches High

Handle—Hard Wood. Iron Braces on Cross Bar.

The Standard Pennsylvania is the Pioneer of All Lawn Mowers, Having an **Open** Cylinder, **Open** Wheels and a **Train of Gears.**

LOW WHEEL

8-Inch Wheels. 5¼-Inch Cylinder 10 Inch, Three Blades. 12 to 18 Inch, Four Blades

Width of Cut, Inches	10	12	14	16	18
Wt., Bxd., Inc Hdl., Pounds	49	54	58	60	63
List Price, Each	$13 00	15.00	17.00	19.00	21.00
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Code Word	Penman	Penal	Pendent	Pennant	Penguin

HIGH WHEEL

10½-Inch Wheels 6½-Inch, Four-Blade Cylinder

Width of Cut, Inches	15	17	19	21
Weight, Boxed, Inc. Handle, Pounds	78	82	86	97
List Price, Each	$25.00	28 00	31 00	34.00
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Code Word.	Penknife	Pencil	Penner	Penny

PENNSYLVANIA JUNIOR BALL BEARING

Blades—Five Crucible Tool Steel, Oil Hardened and Water Tempered. Extra Wide

Gears—A Triple Set on Each Side.

Wheel Base—Extra Long, Cuts Smoothly Over Uneven Ground

Wheels—8 or 10 inches. Open Spokes

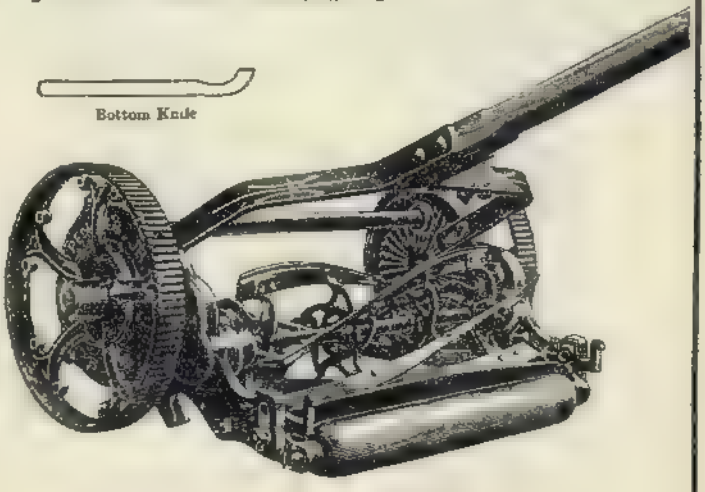
Bottom Knife—Raised Edge of Tempered, Crucible Tool Steel.

Height of Cut—¾ to 1⅛ inch. Will Cut Grass 6 Inches High

Parts and Handle—Same as Standard Pennsylvania

The Pennsylvania Jr. Has All the Good Points of The Standard **Pennsylvania,** with the Addition of Some Features That Make It the Most Perfect Grass Cutter in the World Its Self Sharpening Features Alone Will Make It Worth Its Cost to the User, as it Will Save This Expense Until the Blades are Worn Out—In Average Use a Dozen Years or More

Bottom Knife



LOW WHEEL

8-Inch Wheels. 5½-Inch, Five-Blade Cylinder

Width of Cut, Inches	12	14	16	18
Weight, Boxed, Inc Handle, Pounds	59	62	65	68
List Price, Each	$16.00	17.00	19.00	21 00
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Code Word	Judge	Judging	Juggle	Julep

HIGH WHEEL

10-Inch Wheels 6-Inch, Five-Blade Cylinder.

Width of Cut, Inches	15	17	19	21
Weight, Boxed, Inc. Handle, Pounds	71	74	77	80
List Price, Each	$25 00	28 00	31.00	34.00
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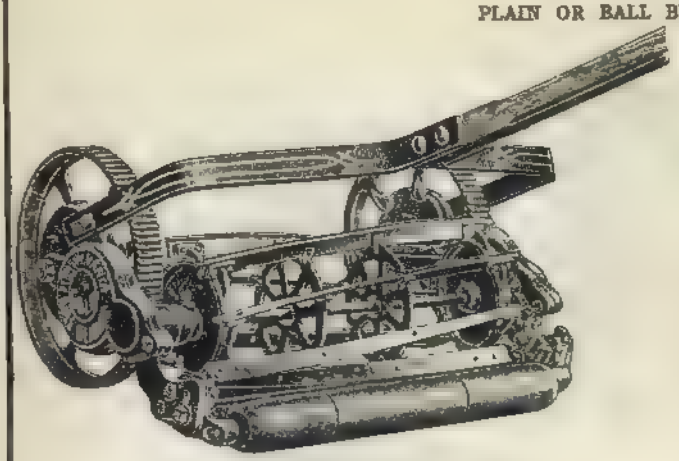
Code Word.	Julius	Jural	Juror	Jurat

LAWN MOWERS

Prices on Request

PENNSYLVANIA GOLF

PLAIN OR BALL BEARING



High Wheel Golf, Ball Bearing

Blades—Crucible Tool Steel, Oil Hardened and Water Tempered
Gears—Double Train of Gears.
Wheel Base—Extra Length. Will Run Smoothly and Not Tip up.
Wheels—8 inches on Low Wheel Mower, 9½ inches on High Wheel Mower.
Parts—Malleable and Cast. Accurately Machined to Insure Noiseless Service
Bottom Knife—Raised Edge of Tempered Crucible Tool Steel
Height of Cut—$\frac{1}{4}$ to 1½ inches.
Handle—Hard Wood. Iron Braces on Cross Bar.

The Pennsylvania Golf is Especially Adapted for Golf Links, Tennis Courts, Bowling Greens, and Cricket Creases. Can be Adjusted to Cut $\frac{1}{16}$ of an inch, Practically Shaving the Lawn. The Sectional Iron Roller Shown in Illustration is Regularly Supplied With the Ball Bearing High Wheel Pattern Only.

HIGH WHEEL

Ball Bearing: Seven Blades. Sectional Iron Roller.

9½-Inch Wheels. 6½-Inch Cylinder.

Width of Cut, Inches	17	19	21
Weight, Boxed, Inc Handle, Pounds	75	79	85
List Price, Each	$34.00	38.00	42.00
	----	----	----
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Code Word, Ball Bearing	Hackle	Hable	Hamid

LOW WHEEL

Plain Bearing. Six Blades. Wood Roller.

8-Inch Wheels. 5½-Inch Cylinder

Width of Cut, Inches	14	16	18
Weight, Boxed, Inc. Handle Pounds	62	67	71
List Price, Each	$28.00	32.00	36.00
	----	----	----
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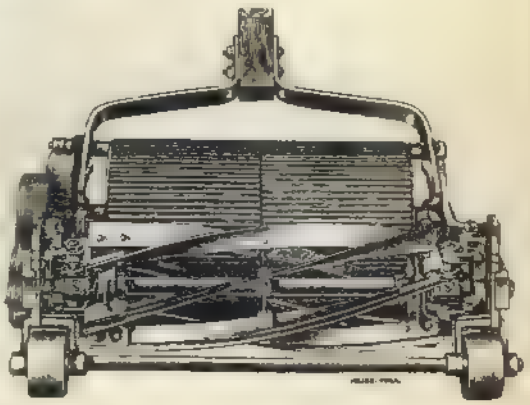
Code Word, Plain Bearing	Hermit	Herbal	Herald

PENNSYLVANIA PUTTING GREENS

OR ROLLER MOWER

Blades—Six Crucible Tool Steel, Oil Hardened and Water Tempered
Gears—Triple, insuring Power and Speed
Rollers—Cast Iron. 7 inches Diameter
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service
Bottom Knife—Improved Curved Pattern, Tempered, Crucible Tool Steel. Bolted Rigidly to the Frame. Making the Adjustment Entirely with the Cylinder
Height of Cut—$\frac{1}{8}$ to 1½ inch.
Journal Boxes or Cylinder Bearings—Self-Aligning, Insuring a Perfect Cutting Edge the Entire Length of the Blades.
Handle—Hard Wood. Iron Braces on Cross Bar.

This Mower is Unexcelled for Cutting Undulating or Wavy Greens, Also Tennis Courts, Cricket Creases and Other Lawns Requiring an Exceptionally Close and Smooth Cut. It Can Also be Used as a Border Trimmer for the Ordinary Lawn.



7-Inch Rollers. 5-Inch, Six-Blade Cylinder.

Width of Cut, Inches	12	14	16	18
Weight, Boxed, Including Handle, Pounds	67	76	85	94
List Price, Each	$24.00	28.00	32.00	36.00
	----	----	----	----
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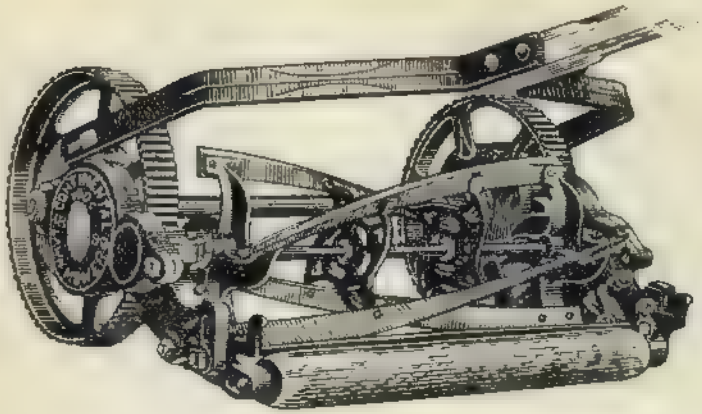
Code Word	Renal	Riger	Roman	Rualo

LAWN MOWERS

CONTINENTAL

Prices on Request



Blades—Crucible Tool Steel, Oil Hardened and Water Tempered
Gears—A Triple Set on Each Side
Wheel Base—Extra Length
Wheels—7½ in hes Closed. 9½ inches Open Spokes.
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service
Bottom Knife—Flat Spring Pattern Same as Pennsylvania
Height of Cut—Adjustable ½ to 1½ inches Will Cut Grass 6 inches High
Handle—Hard Wood Iron Braces on Cross Bar.

Highly Esteemed Where Hard Work is Required. The Favorite with Railroads, Parks, Cemeteries, Etc., and Stands Unrivalled for All Classes of Work The Machine for High Grass and Rough Lawns.

HIGH WHEEL

9½-Inch Wheels. 6½-Inch, Four-Blade Cylinder.

Width of Cut, Inches	15	17	19	21
Wt., Bxd., Inc. Hdl., Pounds	66	72	76	82
List Price, Each	$25 00	28 00	31 00	34.00
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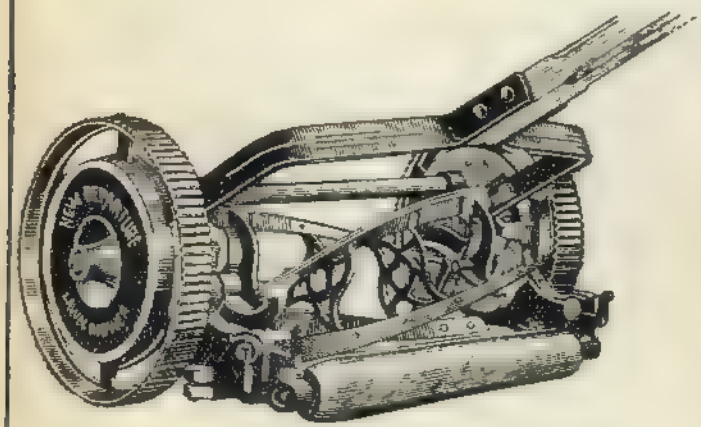
Code Word	Condign	Condor	Conduce	Confect

SHOCK ABSORBER N. D.

(Patent applied for)



Blades—Crucible Tool Steel, Oil Hardened and Water Tempered

Gears—Double. One in Each Wheel.

Wheels—7 inches Closed Pattern on Low Wheel or 9½ inches, Closed Center, 6 Spokes on High Wheel Pattern.

Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service

Bottom Knife—Self-Sharpening. Raised or Lipped Edge, Crucible Tool Steel.

Height of Cut—½ to 1½ inches from Ground.

Handle—Hard Wood Iron Braces on Cross Bar

The New Features: A Raised Edge Bottom Knife and a Self Adjusting Cylinder, by Means of Coiled Springs over Each Journal, makes it Self-Sharpening and Self-Adjusting.

HIGH WHEEL

9½-Inch Wheels. 6-Inch, Four-Blade Cylinder.

Width of Cut, Inches	15	17	19
Weight, Boxed, Inc. Handle., Pounds	63	66	69
Each	----	----	----
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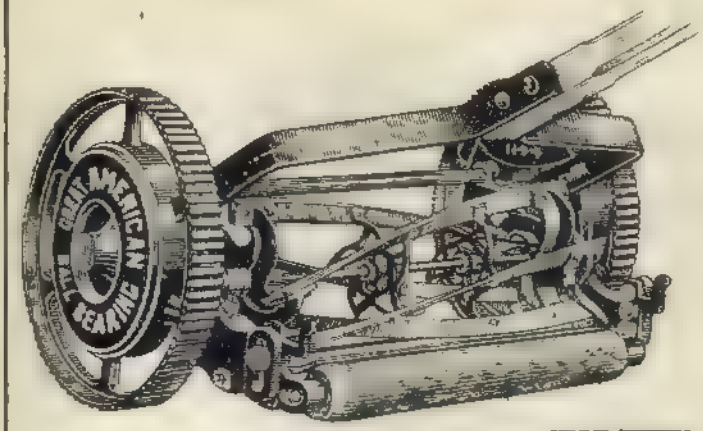
Code Word	Depute	Depet	Depaint

LAWN MOWERS

Prices on Request

GREAT AMERICAN BALL BEARING



HIGH WHEEL

Blades—Five Crucible Tool Steel, Oil Hardened and Water Tempered.

Gears—Double. One in Each Drive Wheel. Cone and Cups, Hardened Tool Steel. Extra Large Balls of Highest Quality

Wheels—10 inches. Solid-Center, Protecting Gears. Six Spokes.

Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service

Bottom Knife—Self-Sharpening, Raised Edge. Crucible Tool Steel, Insuring Long Service

Height of Cut—½ to 1½ inches. Will Cut Grass 6 inches High

Handle—Hard Wood. Iron Braces on Cross Bar.

The Great American Ball Bearing is the Best All-Around Mower of Its Type in the World. The Perfectly-Fitting Ball Cups and Cones Insure an Easy Running Machine.

10-Inch Wheels. 6-Inch, Five-Blade Cylinder.

Width of Cut, Inches	15	17	19	21
Weight, Boxed, Including Handle, Pounds	65	67	71	76
List Price, Each	$25.00	28.00	31.00	34.00
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Code Word	Yarn	Yoke	Yean	Yawl

QUAKER CITY AND GREAT AMERICAN

Blades—Crucible Tool Steel, Oil Hardened and Water Tempered

Gears—Double. One in Each Wheel

Bearings—Parallel. Machined for Accuracy. Adjustable to Take up Wear

Wheels—7 inches. Closed Pattern

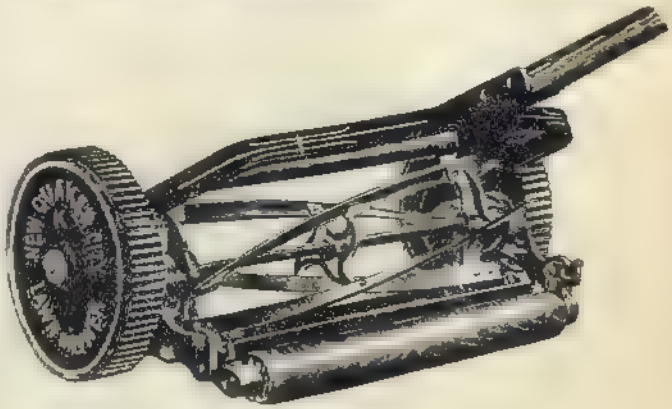
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service

Bottom Knife—Self-Sharpening. Spring Steel

Height of Cut—½ to 1½ inches. Will Cut Grass 6 inches High

Handle—Hard Wood

A Standard Type Lawn Mower That Will Give Good Service and Satisfaction On Any Kind of a Lawn. Strong, Durable and Easy Running. A Favorite with the Professional Gardener as well as the Amateur.



7-Inch Wheels. 5-Inch Cylinder

FOUR BLADES

Width of Cut, Inches	14	16	18
Weight, Boxed, Inc. Handle, Pounds	48	51	54
List Price, Each	$17.00	19.00	21.00
	-----	-----	-----
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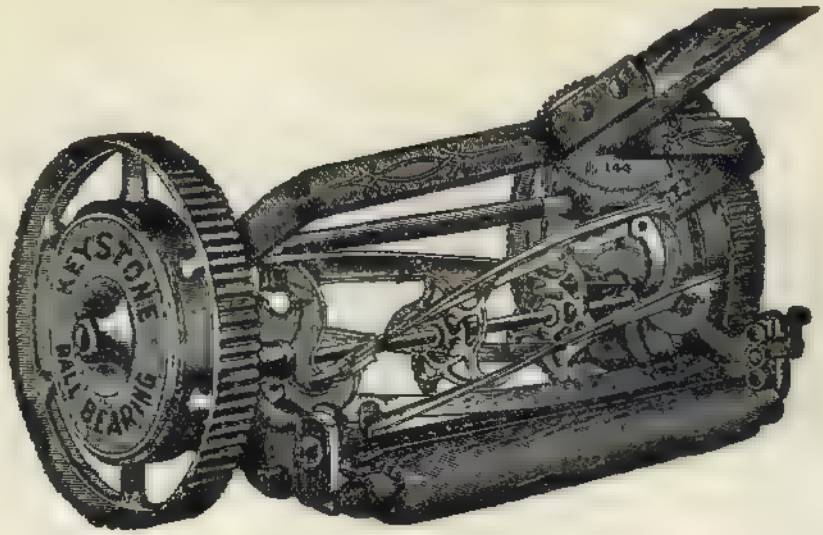
Code Word, Quaker City	Quail	Qualm	Quarry
Code Word, Great American	Grude	Grove	Geary

LAWN MOWERS

Prices on Request

KEYSTONE BALL BEARING



Five Blades—Made of Oil Hardened and Water Tempered Crucible Tool Steel.

Double Gears—Each Drive Wheel Contains One Hardened Tool Steel Cone and Cups. Highest Quality Extra Large Balls

10-Inch Wheels—Six Spokes. Has Solid Center Protecting Gears.

Parts—These are Malleable and Cast, Accurately Machined to Insure Noiseless Service.

Bottom Knife—Made of Crucible Tool Steel. Raised Edge. Self-Sharpening

Height of Cut—¾ to 1¾ inch. Will Cut Grass 6 Inches High.

Hardwood Handle—Has Iron Braces on Cross Bar

HIGH WHEEL

10-Inch Wheels. 6-Inch, Five-Blade Cylinder

	15	17	19	21
Width of Cut, Inches				
Weight, Boxed, Including Handle, Pounds	65	67	71	76
List Price, Each	$25 00	28.00	31 00	34 00
	----	----	----	----
Code Word	----	----	----	----

If It's Automobile Accessories

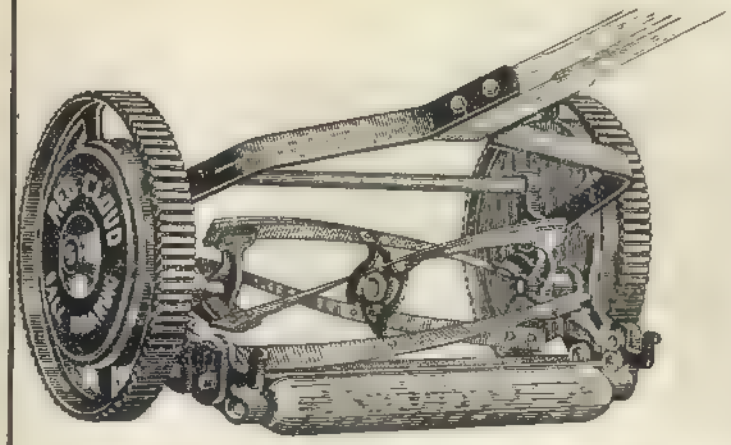
We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

LAWN MOWERS

Prices on Request

RED CLOUD BALL BEARING



Blades—Four Crucible Tool Steel, Hardened and Tempered.
Gears—Internal. One in Each Wheel.
Bearings—Ball Bearings Identical with Those Used on Pennsylvania, Jr.
Wheels—10 inches. Closed Center. 8 inch Spoked to Rim.
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service
Bottom Knife—Enos Patent. Spring Steel. Self-sharpening.
Height of Cut—¼ to 1¼ inches. Will Cut Grass 6 inches High
Handle—Hard Wood

This Machine is Made of the Same Materials and with the Same Careful Attention to Detail that has Made the Higher Price Machines the Leaders in Every Country Where Grass Grows. Its Construction, while Extremely Simple, is very Strong and Durable and the Superior Quality of the Ball Bearings Insures an Easy, Light Running Mower.

HIGH WHEEL

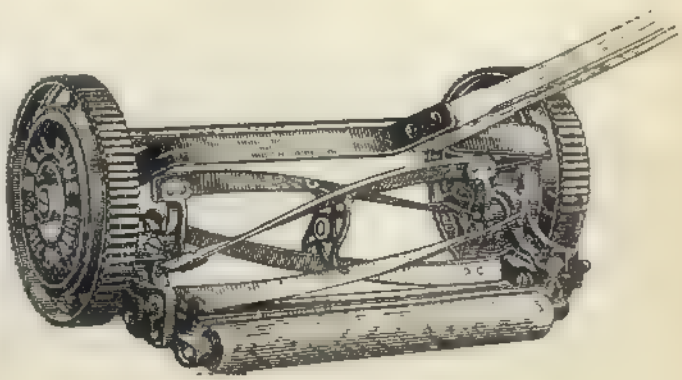
10-Inch Wheels. 5½-Inch, Four-Blade Cylinder

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	50	52	54
Each			
Code Word	Redan	Redound	Redmar

BELLEVUE BALL BEARING

Blades—Four Crucible Tool Steel, Hardened and Tempered.
Gears—Internal. One in Each Wheel.
Bearings—Balls, Cups and Cones, Identical with those Used on the Pennsylvania, Jr.
Wheels—9 inches. Closed Center. Spoked Rim.
Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service.
Bottom Knife—Enos Patent. Flexible or Yielding Type, Insuring an Action Which Constantly Sharpens Itself and the Revolving Blades.
Height of Cut—¼ to 1¼ inches. Will Cut 5-inch Grass
Handle—Hard Wood.

The Bellevue Ball Bearing is a Mower Good Enough for Anybody, at a Fair Price. It is Fitted with the Latest and Most Approved Ball Bearings, Making its Work on the Lawn Easy and Reducing Friction to a Minimum.



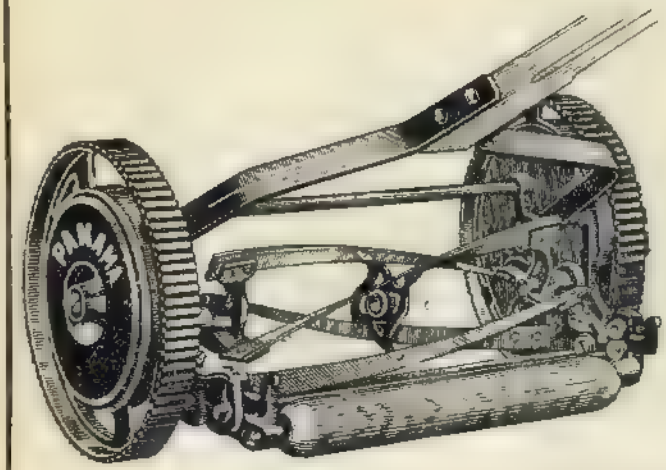
9-Inch Wheels. 5-Inch Four-Blade Cylinder.

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	45	48	51
Each			
Code Word	Bemol	Belock	Beldam

LAWN MOWERS

Prices on Request

PANAMA



Blades—Four Crucible Tool Steel, Hardened and Tempered.

Gears—Internal. One in Each Wheel.

Bearings—Parallel. Adjustable to Take up Wear.

Wheels—10 inches Diameter. Spoked Rim

Parts—Malleable and Cast. Accurately Machined to Insure Noiseless Service

Bottom Knife—Enos Patent. Self-sharpening, Crucible Tool Steel

Height of Cut—¼ to 1¼ inches. Will Cut 6 inch Grass

Handle—Hard Wood.

10-Inch Wheels. 5¼-Inch, Four-Blade Cylinder

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	45	48	51
Each	---	---	---
	---	---	---
Code Word	Panan	Perar	Posos

DELTA BALL BEARING

Blades—Four Crucible Cast Steel, Hardened and Tempered

Gears—Internal. One in Each Wheel.

Bearings—Full "Penna. Quality" Bearings

Wheels—8 inches. Spoked Rim.

Parts—Malleable and Cast. Accurately Machined to Insure Noiseless Service.

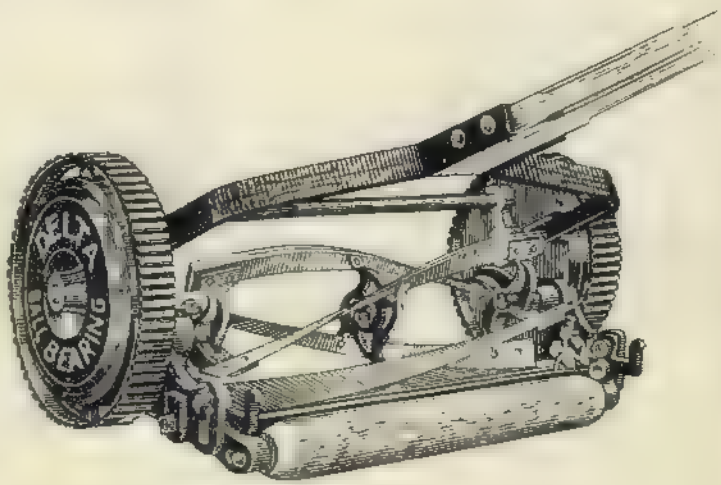
Bottom Knife—Enos Patent. Self Sharpening Tempered Spring Steel

Height of Cut—¼ to 1¼ inches. Will Cut 5-inch Grass

Handle—Hard Wood

A Strictly High Grade, Ball Bearing Mower for a Small Price, and One to Stand Hard Service

Dust-proof Bearings



8-Inch Wheels. 5-Inch, Four-Blade Cylinder

Width of Cut, Inches	12	14	16	18
Weight, Boxed, Including Handle, Pounds	41	44	46	48
Each	---	---	---	---
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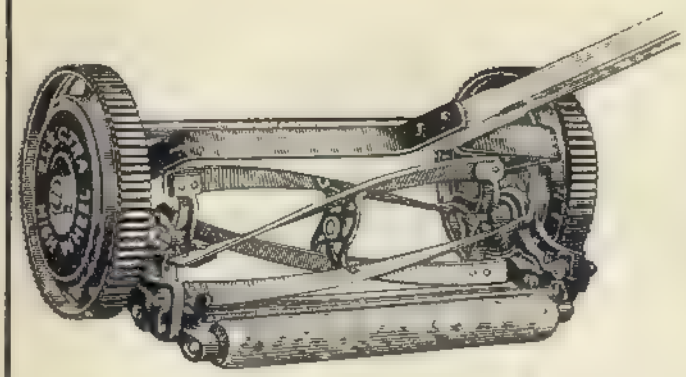
Code Word	Drake	Dorn	Dotal	Donc

LAWN MOWERS

Prices on Request

ELECTRA



Blades—Crucible Tool Steel, Hardened and Tempered

Gears—Internal. One in Each Wheel.

Bearings—Parallel. Adjustable to Take up Wear.

Wheels—8-inch Low Wheel or 9-inch High Wheel Spoked Rim.

Parts—Malleable and Cast, Accurately Machined to Insure Noiseless Service.

Bottom Knife—Spring Steel. Hardened and Tempered. Enos Patent

Height of Cut—½ to 1¼ inches. Will Cut Grass 5 inches High.

Handle—Hard Wood

HIGH WHEEL

9-Inch Wheels. 5-Inch, Four-Blade Cylinder

Width of Cut, Inches	14	16	18
Weight, Boxed, Inc. Handle, Pounds	45	48	51
Each	----	----	----
	----	----	----
Code Word	Endue	Eneid	Enform

LOW WHEEL

9-Inch Wheels. 5-Inch, Three-Blade Cylinder.

Width of Cut, Inches	12	14	16	18
Weight, Boxed, Inc Hdle, Lbs	39	41	43	46
Each	----	----	----	----
	----	----	----	----
Code Word	Elong	Elupt	Eling	Elora

Finished in Aluminum and Gilt

NEW BELMONT

Blades—Four Crucible Tool Steel, Hardened and Tempered

Gears—Internal. One in Each Wheel, Covered by Dust-proof Cap.

Bearings—Parallel. Adjustable to Take Up Wear

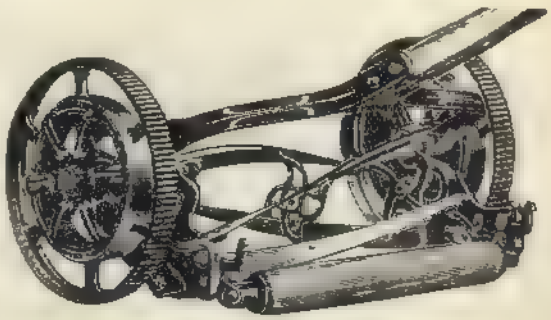
Wheels—9 inches Diameter Open Center or Spider Pattern Reinforced Rims

Parts—Malleable and Cast. Machined to Fit, Insuring Noise-less Smooth Cutting

Bottom Knife—Spring Steel, Hardened and Tempered The Cast Bar Holding the Knife is Fitted to Side Plates, Permitting **Accurate Set Screw Adjustment.**

Height of Cut—½ to 1¼ inches. Will Cut Grass 5 inches High.

Handle—Hard Wood



9-Inch Wheels. 5-Inch, Four-Blade Cylinder

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	44	46	49
Each	---	---	---
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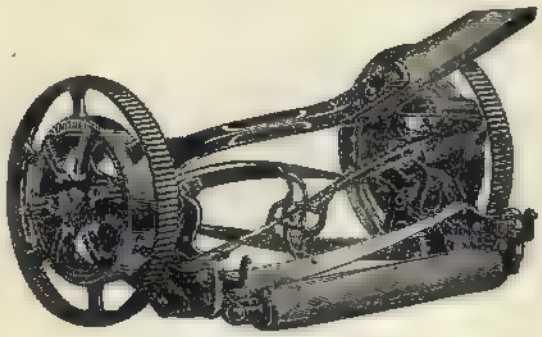
Code Word	Nebra	Nilon	Nomon

LAWN MOWERS

Prices on Request

ORCHID BALL BEARING



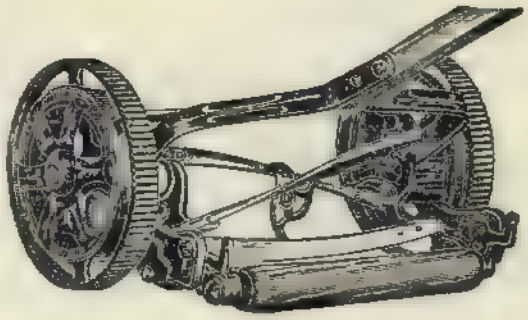
Blades—Four Crucible Tool Steel, Hardened and Tempered.
Gears—Internal. One in Each Wheel, Covered by Dust-proof Cap.
Bearings—Balls, Cups and Cones Identical with Those Used on Pennsylvania Junior and Our Other High Priced Machines.
Wheels—10 inches Diameter. Open Center or Spider Pattern. Reinforced Rims.
Parts—Malleable and Cast. Machined to Fit, Insuring Noiseless Smooth Cutting.
Bottom Knife—Spring Steel, Hardened and Tempered. The Cast Bar Holding the Knife is Fitted to Side Plates, Permitting **Accurate Set Screw Adjustment.**
Height of Cut—¼ to 1½ inches. Will Cut Grass 6 inches High.
Handle—Hard Wood.

10-Inch Wheels. 5½-Inch, Four-Blade Cylinder.

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	50	54	58
Each	---	---	---
	---	---	---
Code Word	Obear	Odane	Ograd

DAISY

Blades—Three Crucible Tool Steel, Hardened and Tempered.
Gears—Internal. One in Each Wheel, Covered by Dust-proof Cap.
Bearings—Parallel. Adjustable to Take Up Wear.
Wheels—9 inches Diameter. Open Center or Spider Pattern. Reinforced Rims.
Parts—Malleable and Cast. Machined to Fit, Insuring Noiseless Smooth Cutting.
Bottom Knife—Spring Steel, Hardened and Tempered. The Cast Bar Holding the Knife is Fitted to Side Plate. Permitting
Accurate Set Screw Adjustment.
Height of Cut—¼ to 1½ inches. Will Cut Grass 5 inches.
Handle—Hard Wood.



9-Inch Wheels. 5-Inch, Three-Blade Cylinder.

Width of Cut, Inches	14	16	18
Weight, Boxed, Including Handle, Pounds	44	46	49
Each	---	---	---
	---	---	---
Code Word	Darab	Dasid	Dalac

GOUGES

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Surface Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade Second Growth Handles, Carefully Inspected. If Any of These Chisels are Unsatisfactory Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way.

SOCKET FIRMER. INSIDE BEVEL

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 6½ Inches.

No. 320½LT—	Size, Inches	1/4	3/8	5/8	3/4	1-1/4	1-1/2
	Wt. Per Doz., About Lbs.	4½	5	7	8	11	14
	Per Dozen	10.75	10.75	11.75	12.50	15.50	17.25
		$21.50	21.50	23.50	25.00	31.00	34.50

Half dozen in a slide-cover wooden box.

TURNING. TANGED FIRMER

Unhandled. Length of Blade from Shoulder to Cutting Edge, 6½ Inches.

No. 340—	Size Inches	1	1-1/4	1-1/2	1-3/4
	Weight Per Dozen About Pounds	7	8½	10	11
	Per Dozen	11.50	14.50	18.50	21.75
		25.30	31.90	40.70	47.90

Half dozen in a cardboard box

CHISELS

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Surface Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Handles, Carefully Inspected. If Any of These Slicks are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way.

TURNING. TANGED FIRMER

Unhandled. Length of Blade from Shoulder to Cutting Edge, 6½ Inches.

No. 250—	Size, Inches	1/2	3/4	1	1-1/4	1-1/2	1-3/4
	Weight Per Dozen, About Pounds	4	6	8	10	10	10½
	Per Dozen	$6.00	7.00	9.00	10.75	13.25	16.10
		13.20	15.40	19.80	23.70	29.20	35.20

Half dozen in a cardboard box.

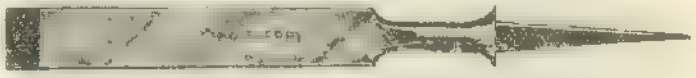
Headquarters for Bicycles and Sundries

See Separate Catalog

CHISELS

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Surface Free From Soft Spots Tested for Flexibility Under a Pressure of 250 Pounds High Grade, Stained Crown Handles Carefully Inspected If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money as the Guarantee is Without Restriction and the Purchaser is Urged to Use it in that way.



TANGED FIRMER. PLAIN EDGE

Unhandled. Length of Blade from Shoulder to Cutting Edge 3¼ to 5 Inches, According to Size

	Size, Inches	1/4	5/8	3/4	1-1/4	1-1/2
	Weight Per Dozen About Pounds	1½	2½	2¾	5	6½
No. 200—	Per dozen	$4.40	4.70	10	7.50	9.00
		$9.70	10.40	11.20	16.50	19.80

Half dozen in a cardboard box

TANGED FIRMER. BEVEL EDGE

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 3¼ to 5 Inches, According to Size

	Size, Inches	1/4	3/8	1/2	5/8	3/4	7/8	1-1/4
	Weight Per Dozen About Pounds	4	4½	4½	5	5½	6	8
No. 245—	Per dozen	$5.65	5.65	5.65	5.95	6.35	6.85	8.75
		$14.45	14.45	14.45	15.10	16.00	17.10	21.25

Half dozen in a slide-cover wooden box

TANGED FIRMER, BUTT. PLAIN EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 2¾ Inches

	Size, Inches	3/4	1	1-1/4	1-1/2	1-3/4	2
	Weight Per Dozen About Pounds	4	5	6	7	8	8½
No. 270LT—	Per dozen	$7.10	8.20	9.50	11.00	12.75	15.00
		$15.60	18.05	20.90	24.20	28.05	33.00

Half dozen in a slide-cover wooden box.

TANGED FIRMER, BUTT. BEVELED EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 2¾ Inches

	Size, Inches	3/4	1	1-1/4	1-1/2	1-3/4	2
	Weight Per Dozen About Pounds	4	5	6	7	8	8½
No. 275LT—	Per dozen	$8.70	9.80	11.10	12.60	14.35	16.60
		$17.10	19.55	22.40	25.70	29.55	34.50

Half dozen in a slide-cover wooden box.

CHISELS

WITHERBY

Made From High Grade Steel. Uniformly Tempered and Hardened Surface. Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade Second Growth Handles, Carefully Inspected. If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way.

SOCKET FRAMING. PLAIN EDGE

Welded Oval-Back Pattern

Iron Ringed Handle. Length of Blade from Shoulder to Cutting Edge, 8 Inches

No. 30—

Size, Inches	1/2	3/4	1	1-1/4	1-1/2	1-3/4
Weight Per Dozen About Pounds	11	14½	17	21	23	29
Per dozen	$9 00	10 00	11 00	12 00	13 00	14 50
	$16.20	18.00	19.80	21.60	23.40	26.10

Half dozen in a slide-cover wooden box

SOCKET FRAMING. BEVELED EDGE

Welded Oval-Back Pattern

Iron Ringed Handle. Length of Blade from Shoulder to Cutting Edge, 8 Inches

No. 35—

Size, Inches	1/2	3/4	1	1-1/4	1-1/2	1-3/4
Weight Per Dozen About Pounds	10	13	16	20	23	27
Per dozen	$11.50	12.50	13 50	14.50	15.50	17.00
	$18.20	20.00	21.60	23.60	25.40	28.10

Half dozen in a slide-cover wooden box

SOCKET FRAMING. PLAIN EDGE

Iron Ringed Handle. Length of Blade from Shoulder to Cutting Edge, 8 Inches

No. 80—

Size, Inches	3/4	1	1-1/4	1-1/2	1-3/4
Weight Per Dozen About Pounds	12	15	17	19	20
Per dozen	$14.00	17 00	18 00	19 00	20.50
	$18.00	19.80	21.60	23.40	26.10

Half dozen in a slide-cover wooden box

SOCKET CORNER

Iron Ringed Handle. Length of Blade from Shoulder to Cutting Edge, 8 Inches

Made From Solid Bar of Best Silver Steel.

No. 40—

Size, Inches	1/2	3/4	7/8
Weight Per Dozen About Pounds	10	14	17
Per dozen	$22.50	22.50	24.00
	$49.50	43.50	52.00

Half dozen in a slide-cover wooden box.

CHISELS

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Surface Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Handles, Carefully Inspected. If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way

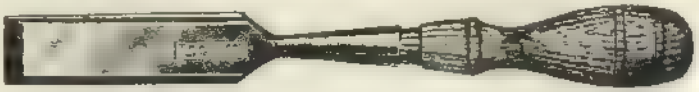
SOCKET FIRMER, POCKET OR BUTT. PLAIN EDGE

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 3½ Inches.

No. 500

Size, Inches	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
Weight Per dozen About Pounds	4½	4¾	5½	6	7½	7¾	8
Per Dozen	$12.50	14.50	16.50	18.50	20.00	22.00	23.00
	$10.90	12.40	14.15	15.90	17.20	18.85	19.65

Half dozen in a slide-cover wooden box.



SOCKET FIRMER, POCKET OR BUTT. BEVELED EDGE

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 3½ Inches

No. 505

Size, Inches	1/4	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
Weight Per Dozen About Pounds	3½	4	4½	5¾	6¾	7	7½	8½
Per Dozen	$16.00	16.00	18.00	20.00	22.00	23.50	25.50	26.50
	$12.20	12.20	14.50	15.65	17.35	18.60	20.30	21.15

Half dozen in a slide-cover wooden box

SOCKET FIRMER, POCKET OR BUTT. PLAIN EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 3½ Inches

No. 510

Size, Inches	1/4	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
Weight Per Dozen About Pounds	3½					7¼	7½	7¾
Per Dozen	$14.00	14.00	16.00	18.50	20.50	22.00	24.00	25.00
	$12.00	12.00	13.85	15.85	17.55	18.85	20.55	21.40

Half dozen in a slide-cover wooden box

SOCKET FIRMER, POCKET OR BUTT. BEVELED EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 3½ Inches.

No. 515

Size, Inches	1/4	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
Weight Per Dozen About Pounds	3¾	4	4¼	5¾	6¾	7	7½	8¼
Per Dozen	$17.50	17.50	19.50	22.00	24.00	25.50	27.50	28.50
	$13.70	13.70	16.00	17.15	18.85	20.10	21.75	22.65

Half dozen in a slide-cover wooden box

CHISELS

WITHERBY

Made From High Grade Steel. Uniformly Tempered and Hardened Surface. Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Handles, Carefully Inspected. If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way.

SOCKET BUTT, BEVEL EDGE

New Style Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 2½ Inches.

	Size, Inches	¾	1	1-¼	1-½	1-¾	2
	Weight Per Dozen, About Pounds	3½	4½	5½	6	7	8
No. 585—	Per Dozen	$16.00	18.50	20.50	22.00	24.00	25.00
		$15.20	17.30	19.05	20.30	22.00	22.90

Half dozen in a slide-cover wooden box

GOUGES

WITHERBY

Made from High Grade Steel. Uniformly Tempered and Hardened Surface. Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Handles, Carefully Inspected. If Any of These Gouges are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way.

TANGED FIRMER. OUTSIDE BEVEL

Unhandled. Length of Blade from Shoulder to Cutting Edge, 3½ to 5 Inches According to Size

	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
	Wt. Per Doz., About Pounds	1	1½	1½	2	2½	3	3	4½	5	6½
No. 300	Per Dozen	$5.70	5.70	5.70	5.70	6.10	6.60	7.30	8.00	9.75	11.75
		$12.60	12.60	12.60	12.60	13.40	14.60	16.10	17.60	21.50	25.90

Half dozen in a cardboard box

TANGED FIRMER. OUTSIDE BEVEL

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 3½ to 5 Inches, According to Size

	Size, Inches	1/8	1/4	3/8	5/8	7/8	1-1/2
	Wt. Per Doz., About Pounds	1	1½	1¾	2½	3	6½
No. 310	Per Dozen	$6.95	6.95	6.95	7.35	8.55	13.00
		$15.30	15.30	15.30	16.20	18.80	28.60

Half dozen in a slide-cover wooden box

SOCKET FIRMER. OUTSIDE BEVEL

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 6½ Inches

	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
	Wt. Per Doz., About Lbs.	4½	4½	5	5½	7	8			11	
No. 320LT—	Per Dozen	$10.75	10.75	10.75	11.25	11.75	12.50	13.25	14.00	15.50	17.25
		$21.50	21.50	21.50	22.50	23.50	25.00	26.50	28.00	31.00	34.50

Half dozen in a slide-cover wooden box

CHISELS

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Surface Free From Soft Spots Tested for Flexibility under a Pressure of 250 Pounds. High Grade Second Growth Hickory Carefully Inspected If Any of These Chisels are Unsatisfactory do not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction and the Retailer is Urged to use it in that way

SOCKET FIRMER. PLAIN EDGE

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 6½ Inches

No. 10—	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2
	Wt. Per Doz. About Lbs	4	4½	4½	5½	7½	7½	8	9	10½	11½	13¼	17
	Per Dozen	$12.50	12.50	12.50	12.50	14.00	14.50	16.00	16.50	18.50	20.00	22.00	23.00
		$10.70	10.70	10.70	10.70	12.00	12.40	13.70	14.15	15.85	17.10	18.85	19.70

Half dozen in a slide-cover wooden box.

	Per Set	
No. 10/6—Set of 6 Chisels, One each, 1/4, 1/2, 3/4, 1, 1-1/2, 2 inch . One set in a slide-cover wooden box	$ 8.66	$7.45
No. 10/9—Set of 9 Chisels, One Each 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2 inch. One set in a slide-cover wooden box. Weight, per set, about 6 pounds.	11.69	10.00
No. 10/12—Set of 12 Chisels, One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/4, 1-1/2, 1-3/4, 2 inches One set in a slide-cover wooden box. Weight, per set, about 8¾ pounds	17.02	15.10

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

CHISEL SETS

WITHERBY

Made From High Grade Steel Uniformly Tempered and Hardened Entirely Free From Soft Spots Tested For Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Handles [illegible] If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positive Without Restriction and the Retailer is Urged to Use it in that Way

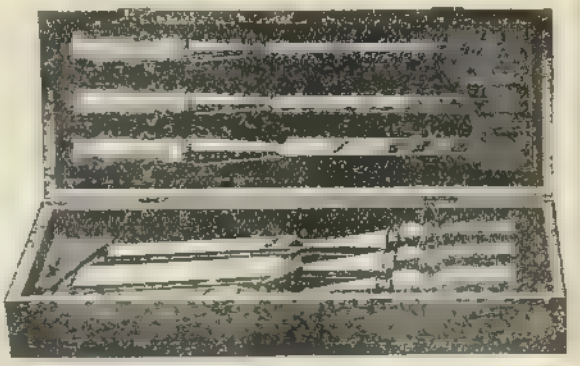
SOCKET FIRMER, BEVELED EDGE

Leather Tip Handles. Mirror Polished Blades. Each Set in a Fancy Wooden, Brass Hinged Display box. Set Contains One each ¼, ½, ¾, 1, 1½, 2 inch

Per Set

No. 446—Set of Six $9.35

Weight per set, about 5½ pounds



SOCKET FIRMER BEVELED EDGE

Leather Tip Handles. Mirror Polished Blades. Each Chisel Held Firmly by Spring Brass Wire Holder. Set Complete in a Fancy, Wooden, Brass Hinged Display Box. Set Contains One each ¼, ½, ¾, 1, 1¼, 2 inch

Per Set

No. 886—Set of Six $10.00

Weight per set about 6 pounds

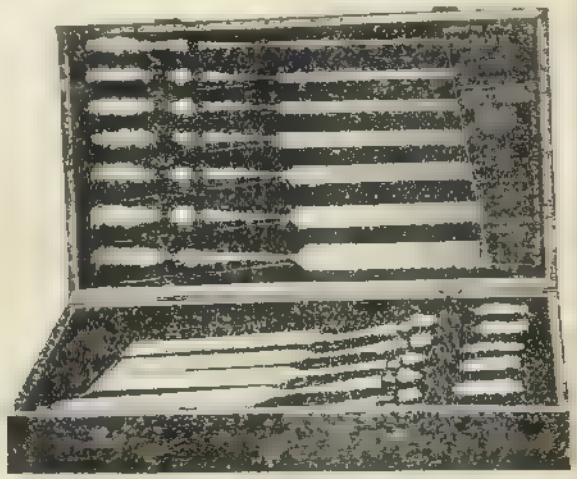
SOCKET FIRMER, BEVELED EDGE

Plain Handles. Mirror Polished Blades. Each Set in a Fancy, Wooden, Brass Hinged, Display Box. Set Contains One each ¼, ½, ¾, 1, ¼, ½, ¾, 1, 1½, 1¾, 1¾, 2 inches

Per Set

No. 222—Set of Twelve..... $16.80

Weight per set, about 11 pounds



SOCKET FIRMER PLAIN EDGE

Leather Tip Handles. Mirror Polished Blades. Each Chisel Held Firmly by Spring Brass Wire Holder. Set Complete in a Fancy, Wooden, Hinged Display Box. Set Contains One each ¼, ½, ¾, 1, ¼, ½, ¾, 1, 1¼, 1½, 1¾, 2 inch

Per Set

No. 812—Set of Twelve $16.70

Weight per set, about 11¼ pounds

CHISEL SETS

WITHERBY

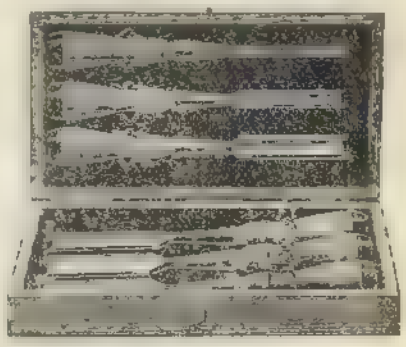
Made from High Grade Steel. Uniformly Tempered and Hardened Surface. Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade, Second Growth Beechlox Carefully Inspected. If Any of These Chisels are Unsatisfactory Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction and the Retailer is Urged to Use it in that way.

SOCKET FIRMER. BEVELED EDGE

Leather Tip Handles. Mirror Polished Blades. Each Chisel Held Firmly by Spring Brass Wire Holder. Set Complete in a Fancy Wood Set, Brass Hinged Display Box. Set Contains One each ¼, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2 inch.

	Per Set
No. 882—Set of Twelve	**$18.70**

Weight per set, about 11 pounds.

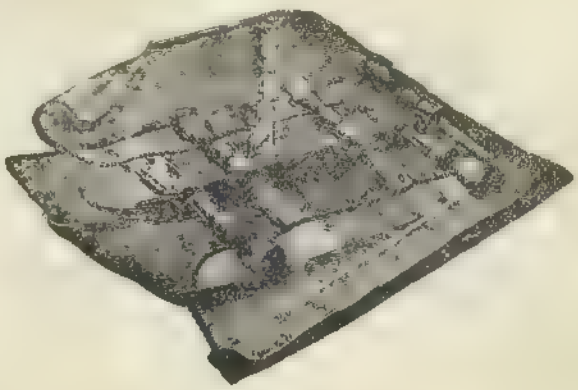


SOCKET POCKET. BEVELED EDGE

Leather Tip Handles. Mirror Polished Blades. Each Chisel Held Firmly by Spring Brass Wire Holder. Set Complete in a Fancy Wood, Brass Hinged Display Box. Set Contains One each ¼, ⅜, ½, 1, 1½, 1¾ inch.

	Per Set
No. 515—Set of Six	**$16.70**

Weight per set, about 3 pounds.



SOCKET POCKET. BEVELED EDGE

Leather Tip Handles. Mirror Polished Blades. Each Set in a Handsome Canvas Roll. Set Contains One each ¼, ½, ¾, 1, 1¼, 1½ inch.

	Per Set
No. 535—Set of Six	**$10.90**

Weight per set, about 3 pounds.

CHISELS

WITHERBY

Made From High Grade Steel. Uniformly Tempered and Hardened Surface. Free From Soft Spots. Tested for Flexibility Under a Pressure of 250 Pounds. High Grade Second Growth Handles, Carefully Inspected. If Any of These Chisels are Unsatisfactory, Do Not Hesitate to Replace or Refund the Money, as the Guarantee is Positively Without Restriction, and the Retailer is Urged to Use it in that way

SOCKET FIRMER. BEVELED EDGE

Plain Handle. Length of Blade from Shoulder to Cutting Edge, 6¼ Inches.

	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2
	Wt. Per Doz. About Lbs.	4	4½	4½	4½	6½	7½	7½	8½	10½	11	15½	16½
No. 15	Per Dozen	$12.70	12.70	12.70	12.70	14.00	14.40	15.70	16.15	17.85	19.10	20.85	20.70

Half dozen in a slide-cover wooden box

		Per Set	
No. 15/6	**Set of 6 Chisels,** One Each, 1/4, 1/2, 3/4, 1, 1-1/2, 2 inch. One set in a slide-cover wooden box.	$ 8.60	$9.40
No. 15/9	**—Set of 9 Chisels,** One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2 inch. One set in a slide-cover wooden box. Weight, per set, about 5½ pounds.	11.69	12.00
No. 15/12	**—Set of 12 Chisels,** One Each 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2 inches. One set in a slide-cover wooden box. Weight, per set about 8 pounds.	17.02	16.60

SOCKET FIRMER. PLAIN EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 6¼ Inches.

	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2
	Wt. Per. Doz. About Lbs	4	4½	4½	5½	7½	8	7½	9	10½	11½	15½	17
No. 100	Per Dozen	$14.00	14.00	14.00	14.00	15.50	16.00	18.00	18.50	20.50	22.00	24.00	25.00
		$12.00	12.00	12.00	12.00	13.30	13.70	15.40	15.85	17.55	18.80	20.55	21.40

Half dozen in a slide-cover wooden box

		Per Set	
No. 100/6	**—Set of 6 Chisels,** One Each, 1/4, 1/2, 3/4, 1, 1-1/2, 2 inch. One set in a slide-cover wooden box.	$ 9.50	$8.20
No. 100/9	**—Set of 9 Chisels,** One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2 inch. One set in a slide-cover wooden box. Weight, per set, about 6 pounds.	13.00	11.15
No. 100/12	**Set of 12 Chisels,** One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2 inches. One set in a slide-cover wooden box. Weight, per set, about 8½ pounds	18.86	16.15

SOCKET FIRMER. BEVELED EDGE

Leather Tip Handle. Length of Blade from Shoulder to Cutting Edge, 6¼ Inches

	Size, Inches	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2
	Wt. Per Doz. About Lbs	4	4½	4½	4½	6½	7½	7½	8½	10½	11	15½	16½
No. 150	Per Dozen	$18.00	18.00	18.00	18.00	19.50	20.00	22.00	22.50	24.50	26.00	28.00	29.00
		$14.00	14.00	14.00	14.00	15.30	15.75	17.40	17.85	19.55	20.86	22.55	23.40

Half dozen in a slide-cover wooden box

		Per Set	
No. 150/6	**—Set of 6 Chisels,** One Each, 1/4, 1/2, 3/4, 1, 1-1/2, 2 inch. One set in a slide-cover wooden box	$ 9.59	$10.20
No. 150/9	**—Set of 9 Chisels,** One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2 inch. One set in a slide-cover wooden box. Weight, per set, about 6 pounds.	13.00	13.15
No. 150/12	**—Set of 12 Chisels,** One Each, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2 inches. One set in a slide-cover wooden box. Weight, per set, about 8 pounds	18.86	19.15

WRENCHES

"PERFECT HANDLE" SCREW No. P. H. 311

One Solid Forging from Tip to Toe. The Drop-forged Bar, the Extra Leverage from the End-swell Water proofed Handle, the Strengthening Yoke on the Back of the Sliding Jaw—All Combine to Make the "Perfect Handle" the Highest Type of Wrench. A Powerful Press, Capable of Exerting a Hundred Tons Pressure, is Used on Each and Every "Perfect Handle" Tool to Close in the Steel Against the Wooden Handles and Lock Them in Better than Any Wooden Handle Tool Ever was Made Before. At Every Important Step in the Production of the "Perfect Handle" Wrench it is Inspected. Making 38 Inspections and Practically an Equal Amount of Tests.

Length, Inches	6	8	10	12	15	18	21
Jaws Open, Inches	1 1/16	1 1/4	1 1/2	2 1/16	2 1/4	3 1/4	4
Wt., per Doz., Lbs	17	20	35	47	68	100	155
Case Contains, Doz	6	6	6	6	3	2	1
Wt. of Case, Lbs.	65	120	200	280	200	200	155
Per Dozen	$10.00	12.00	14.00	18.00	24.00	32.00	39.00
	$19.00	**22.80**	**26.60**	**34.20**	**45.60**	**60.80**	**74.00**

6 to 12 inch, half dozen; 15, 18 inch, third dozen; 21 inch, twelfth dozen in a box.

BEMIS & CALL SCREW No. 62

Bar is Forged from Special Open Hearth Steel Just Suited to Wrench Purpose and is made Oval Front and Back, Giving that Amount of Additional Stock and Strength Over the Ordinary Form of Square Wrench Bar. **Slide** is of a very Tough Semi-steel and Especially Constructed by Reinforcement to the Jaw to Withstand Severe Strain. **Operating Screw** is Sound and of a High-grade Steel. **Handle Frame and Bolster** Are One Piece and Powerfully Braced. Frame is Forged onto the Wrench Bar and is Riveted in Both on the Tip and with a Lateral Pin Rivet. Frame has Selected Hard Wood Sides which are Locked in Place under Pressure and Screw Riveted.

Length, Inches	6	8	10	12	15	18	21
Jaws Open, Inches	[illegible]	1 1/4	1 1/2	2 1/16	2 1/4	3	4 1/4
Wt., Per Doz., Lbs.	[illegible]	15	30	40	56	78	109
Case Contains, Doz.	[illegible]	6	6	6	3	2	1
Wt. Case, Lbs.	[illegible]	92	195	245	17	160	109
Per Dozen	$10.00	12.00	14.00	18.00	24.00	32.00	39.00
	$20.00	**24.00**	**28.00**	**36.00**	**48.00**	**64.00**	**78.00**

6 to 18 inch, half dozen; 21 inch, sixth dozen in a box.

"AGRICULTURAL" No. 100

A Light, but Strong, Serviceable Wrench Forged from the Best Refined Iron and is Particularly Adapted for Agricultural Machinery. Solid Wrought Iron Head, Bar and Shank, the Shank Extending Through End of Handle. Wrought Iron Screw and Slide Jaw, Black Finish. One Piece Hardwood Handle. Wrought Iron Adjusting Screw.

Length, Inches	6	8	10	12	15
Jaws Open, Inches	1	1 1/2	1 1/2	2	2 1/2
Weight, Per Dozen, Pounds	9	18	25	28	44
Case Contains, Dozen	6	6	6	6	3
Weight of Case, Pounds	55	100	145	170	130
Per Dozen	$10.00	12.00	14.00	18.00	24.00
	$15.00	**18.00**	**44.00**	**27.00**	**18.00**

Half dozen in a package.

"COES" KNIFE HANDLE No. 300

Each Wrench is Oiled to Prevent Rust, and Done Up Individually in Paper; the Package is Tied and Labeled. **Forged Steel,** One Piece Head and Bar, Oil Finished. Hardened Semi-steel Shoe Bar and Handle Frame. Machine Cut Steel Screw with Knurled Head; Hardwood Handle Sides Secured at Both Ends by Insertion Under Metal and Riveted Under Pressure.

Length, Inches	6	8	10	12	15	18	21
Jaws, Open, Inches	1	1 1/2	1 1/2	2 1/2	2 1/2	3	4 1/2
Wt., Per Doz., Lbs.	9	16	25	38	55	80	108
Case Contains, Doz.	6	6	6	6	3	2	1
Wt. of Case Lbs.	60	100	160	240	185	170	115
Per Dozen	**$22.00**	**27.60**	**33.20**	**41.40**	**55.20**	**73.60**	**89.70**

6 to 12 inch, half dozen, other sizes, third dozen in a package.

"COES" GENUINE STEEL HANDLE No. 91

Forged Steel Head and Bar, Extra Heavy Semi-steel Hardened Jaw, Semi-steel Handles Riveted to Bar, Oil Finish. Made for Use in Extra Severe Service and in Exposed Places, where Heat or Dampness Would Injure a Wood Handle.

12 Inch and Larger Have Ball Bearing Adjusting Screws

Length, Inches	6	8	10	12	15	18	21
Jaws Open, Inches	1	1 1/4	1 1/2	2 1/2	2 1/2	3	4 1/2
Weight, Per Dozen, Pounds	9	16	26	43	62	89	121
Case Contains, Dozen	6	6	6	6	3	2	1
Weight of Case, Pounds	60	106	170	282	200	194	130
Per Dozen	**$23.00**	**27.60**	**33.20**	**41.40**	**55.20**	**73.60**	**89.70**

6 to 12 inch, half dozen; other sizes, third dozen in a wood box.

WRENCHES

GENUINE BEMIS AND CALL

OFFSET MOTOR

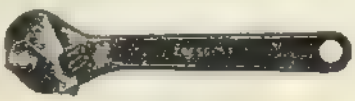
Jaws Made Thin Enough for Check Nuts and Close Contracted Spaces, and are Adapted for Hexagon as well as Square Nuts Made from Best Materials, Carefully Tempered. Handle and Head Highly Polished

No. 80—Length, Inches	4	6	8	10	12
Wt. Per Doz., Lbs.	2½	4½	9½	16	29
Per Dozen	$7.80	7.80	9.60	12.00	15.00
	$14.00	14.00	17.20	21.60	27.00

Half dozen in a wood box

CRESCENT ADJUSTABLE

Handle Drop Forged from Best Carbon Steel; the Movable Jaw From Special Alloy Steel. Carefully Hardened and Tempered Polished All Over except Web in Handle which is Black Oil Finish Especially Useful for Engineers, Machinists, and Millwrights.



PRICES ON REQUEST

SINGLE END

Nos.	CP4	CP6	CP8	CP10	CP12
Length Inches	4	6	8	10	12
Capacity, Inches	½	¾	⅞	1⅛	1⅜
Weight Per Doz., Lbs.	3½	4½	9	12	26
Per Dozen					

One in a carton. Half dozen in a box.

PRICES ON REQUEST

DOUBLE END

Nos.	CP6S	CP8S10
Capacity, Inches	¾ to 1⅛ Inch	⅛ to 1½ Inch
Size	6–8	8–10
Weight, Per Dozen, Lbs.	8	12
Per Dozen		

One in a carton. Half dozen in a box

EXTRA PARTS FOR CRESCENT WRENCHES

Size	No. 2 Jaw Each	No. 3 Thumbscrew Each	No. 4 Pin Each	No. 5 Spring Each
4-Inch				
6-Inch				
8-Inch		PRICES ON REQUEST		
10-Inch				
12-Inch				

Loose

GENUINE BEMIS AND CALL

IMPROVED ADJUSTABLE "S"

Especially Useful in Corners. Operating Nut Being of Sufficient Diameter, Wrench Can Easily be Adjusted by the Thumb of the Hand which Holds it. Drop Forged Steel Sliding Jaw, Provided with Full Bearing on Frame when Open to Widest Capacity. Steel Nut Carefully Hardened and Tempered Parts which are Interchangeable.

No. 48—Length, Inches	6	8	10	12	14
Opening, Inches	¾	1	1¼	1½	2
Wt., Per Doz., Lbs.	5½	12	22	33	58
Per Dozen	$8.00	10.00	12.00	18.00	24.00
	$16.00	20.00	24.00	36.00	48.00

Half dozen in a wood box

EXTRA JAWS OR SLIDES FOR NO. 48

Nos.	6J	8J	10J	12J	14J
Inches	6	8	10	12	14
Weight, Per Dozen, Pounds	1½	3	4½	8½	12½
	$.35	.45	.55	.95	1.20

"PERFECT HANDLE"

ADJUSTABLE "S"

The Waterproofed, Locked-in and Riveted "Perfect Handle" with the Swell at the End Admits of the Most Powerful Leverage Drop Forged Polished and Tempered Steel Jaws Other Parts Japanned. Absolutely Guaranteed

No. 641—Length Inches	6	8	10
Opening Inches	¾	1½	1¾
Weight Per Dozen, Pounds	5½	10	18
Per Dozen	$10.00	12.50	15.00
	$20.00	25.00	30.00

Half dozen in a box; six dozen in a case

ADJUSTABLE STRAIGHT HANDLE

Especially Adapted for Motorists and Machinists and for Places Where the Ordinary Wrench Will Not Enter

No. 642—Length, Inches	6	8	1
Opening, Inches	¾	1¼	1½
Weight, Per Dozen, Pounds	8	11	19
Per Dozen	$10.00	12.50	15.00
	$20.00	25.00	30.00

Half dozen in a box; six dozen in a case

OFFSET

Particularly Adapted for Engineers, Motorists, Mechanics and Farmers. 15 Degree Solid Head

No. 640—For U. S. Standard Nut, Inches	¼	⅜	½
Length Over All, Inches	7⅛	9⅛	11½
Thickness Head, Inches	7/32	¼	5/16
Per Dozen	$7.50	9.75	12.75

Half dozen in a box.

WRENCHES

ALLIGATOR

Forged Solid in One Piece. Tempered Steel Jaws, with Ratchet Teeth Cut Diagonally, thus Enabling them to Cut with Three Teeth at Once. Will Hold Many Sizes Nuts and Bolts Without Adjusting

Per Dozen

No. 01—Length, 5¾ Inches. Holds Pipe ⅛ to ¼ Inch and Round Iron ⅛ to ⅜ Inch $2.50

One dozen in a box

Per Dozen

No. 1¾—Length, 7 Inches. Holds Pipe ⅛ to ¼ Inch, and Round Iron ⅛ to 1 Inch $8.00 $8.00

One dozen in a box

Per Dozen

No. 0—Pocket Size. Length, 4 Inches, with Screw Driver. Holds Pipe ⅛ to ¼ Inch, and Round Iron ⅛ to 5/16 Inch $4.00 $3.20

One dozen in a box.

Nos.	02	03
Inches, Long	10	16
Holds Pipe, Inches	⅛ to ¼	⅛ to 1
Holds Round Iron, Inches	⅛ to 1	⅛ to 1½
Per Dozen	$12.00	24.00
	$12.50	28.00

One dozen in a box.

MALLEABLE IRON MACHINE

Per Pound

No. 21—For Nuts ⅛ to 1¼ Inches .. $.30

No. 22—For Nuts ⅛ to 1½ Inches .30

Loose.

MALLEABLE IRON CARRIAGE

Per Pound

No. C1—For 1½ 1¾ 1¾, 2, 2¼, 2½ Inch Axle Nut. $.40

Loose

No. C3—For ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½, 1⅝, 1¾ Inch Axle Nut ..... Per Pound $.40

Loose

Per Pound

No. C10—For ⅞ 1 1⅛, 1¼, 1⅜, 1½ Inch Axle Nut ... $.40

Loose.

ELGIN ADJUSTABLE

Cast Steel Full Nickel Plated Hardened Milled Teeth Jaws Reinforced with Heavy Steel Plate Screwed to Body. Lower Jaw and Handle One Piece Hole in Handle for Threading Attachment Jaws Can Be Closed by Adjusting Screw or by Pressing on Upper Jaw.

Per Dozen

No. 17—..... $13.50

One in a box

Headquarters for Bicycles and Sundries

See Separate Catalog

PIPE WRENCHES

GENUINE STILLSON

Drop Forged Tool Steel. Hardened Jaws.

Size 18 inch—shank, head of bar, sides of head of jaw—sized only; all other surfaces rough; all sized surfaces dark color. Sizes 24, 36 and 48 inches—sized only; no finish after heat treating

EBONY FINISH. HARDWOOD HANDLE

Nos.	6W	8W	10W	14W
Length, Inches	6	8	10	14
Adjustable, For Pipe, Inches	½ to ¾	½ to 1	¾ to 1½	1 to 1¾
Weight, Each, Lbs.	½	1	2	3½
Each	$2.00	2.25	2.50	3.50
	$1.55	1.60	1.90	3.80

Half dozen in a wood box.

SOLID STEEL HANDLE

Nos.	18S	24S	36S	48S
Length, Inches	18	24	36	48
Adjustable, For Pipe, Inches	½ to 2	½ to 2½	½ to 3½	½ to 5
Weight, Each, Lbs.	6	10	15	24½
Each	$5.00	7.25	13.50	20.00
	$5.40	7.60	14.80	21.60

Nos. 18S and 24S, half dozen in a box; balance, loose

GENUINE STILLSON PARTS

No. SJ—Jaws

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Lbs.	¼	¼	¼	¼	1¼	2½	4½	6½
Each	$ .75	.80	.85	1.15	1.75	2.25	4.35	7.25
	$ .55	.55	.60	.80	1.25	1.60	3.10	5.20

Loose.

No. SH—Wood Handles

For Wrenches, Inches	6	8	10	14
Weight, Each, Ounces	1	1½	1½	2
Each	$0.16	.16	.18	.25
	$ .10	.10	.10	.20

No. SN—Nuts

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Ozs.	½	1	2	4	6	8	14	16
Each	$ .12	.15	.20	.30	.35	.55	1.10	1.50
	$ .05	.10	.15	.20	.25	.40	.80	1.10

Loose.

No. SF—Frames

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Ozs.	½	½	½	½	½	½	1½	2
Each	$ .35	.42	.50	.60	.75	.95	1.70	2.20
	$ .25	.30	.35	.40	.55	.70	1.20	1.60

STILLSON PATTERN

Drop Forged Tempered Jaws. Hardened Nuts. Guaranteed Strong.

EBONY FINISH. HARDWOOD HANDLE

Nos.	06W	08W	010W	014W
Length, Opens, Inches	6	8	10	14
Adjustable, for Pipe, Inches	½ to ¾	½ to ¾	¾ to 1	¾ to 1½
Weight, Each, Lbs.	½	1	2	3½
Each	$2.00	2.25	2.50	3.50
	$1.45	1.60	1.80	3.50

Half dozen in a box

STEEL HANDLE

Nos.	0108	0148	0188	0248	0368	0488
Length, Opens Ins	10	14	18	24	36	48
Adj for Pipe, Ins	½ to 1	½ to 1½	½ to 2	½ to 2½	½ to 3½	1 to 5
Weight, Each, Lbs	3	4½	6	10	15	24½
Each	$2.50	3.50	5.00	7.25	13.50	20.00
	$1.80	2.50	3.60	5.20	9.70	14.40

Nos 010S to 024S, half dozen in a box; balance, loose

STILLSON PATTERN PARTS

No. OSJ—Jaws

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Lbs.	¼	¼	¼	1¼	1½	2½	4½	6½
Each	$ .75	.80	.85	1.15	1.75	2.25	4.35	7.25
	$ .55	.55	.60	.80	1.25	1.60	3.10	5.20

Loose.

No. OSH—Wood Handles

For Wrenches, Inches	6	8	10	14
Weight, Each, Lbs.	1	1¼	1½	2
Each	$ .16	.16	.18	.25
	$ .10	.10	.10	.20

No. OSN—Nuts

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Lbs.	½	1	2	4	6	8	14	16
Each	$ .12	.15	.20	.30	.35	.55	1.10	1.50
	$ .05	.10	.15	.20	.25	.40	.80	1.10

Loose.

No. OSF—Frames

For Wrenches, Ins.	6	8	10	14	18	24	36	48
Weight, Each, Lbs.	½	½	½	½	½	½	1½	2
Each	$ .35	.42	.50	.60	.75	.95	1.70	2.20
	$ .25	.30	.35	.40	.55	.70	1.20	1.60

PIPE WRENCHES

"PERFECT HANDLE"

Bar is a Solid, One-piece Drop Forging of Uniform Strength from End to End. Solid Waterproof Handle, with Swell at End, Giving Operator the Benefit of Additional Leverage with No Danger of the Hand Slipping Off.

Nos.	643/8	643/10	643/14	643/18	643/24
Length, Inches	8	10	14	18	
Adjustable, Inches	½ to ¾	½ to 1	½ to 1½	½ to 2	½ to 2½
Weight, Each, About Lbs.	¼	1½	3½	5½	8
Each	$2.00	2.25	3.00	4.00	6.00
	$1.76	2.00	2.76	4.00	6.00

Nos. 643/8 to 643/14, half dozen in a box; No. 643/18, third dozen in a box.

"PERFECT HANDLE" PARTS

No. PH1—Movable or Front Jaws.

For Wrenches, Inches	8	10	14	18
Weight, Each, Lbs.	½	½	1	1½
Each	$0.75	.80	1.00	1.33
Loose	$1.12	1.20	2.50	2.00

No. PH2—Nuts.

For Wrenches, Inches	8	10	14	18
Weight, Each, Ounces	¼	1½	2½	3½
Each	$0.11	.14	.17	.22
	$ .16	.22	.26	.34

Loose.

No. PH3—Frames.

For Wrenches, Inches	8	10	14	18
Weight, Each, Lbs.	½	¾	¾	½
Each	$0.35	.40	.50	.55
Loose	$ .52	.60	.74	.82

Extra Springs

No. PH4—

For Wrenches, Inches	8	10	14	18
Each	$0.03	.03	.03	.04
Loose	$ .04	.04	.05	.05

Frame Pins

No. PH5—

For Wrenches, Inches	8	10	14	18
Each	$0.03	.04	.04	.04
	$ .05	.05	.05	.05

Spring Pins

No. PH6—

For Wrenches, Inches	8	10	14	18
Each	$0.03	.04	.04	.04
Loose	$ .05	.05	.05	.05

Loose

TRIMO

Drop Forged From Selected Bar Steel, Interchangeable in All Parts. Movable Jaw and Nut are Made with Round Top and Bottom Threads, Guaranteed Not to Strip or Burr. Inserted Jaw

STEEL HANDLE

Nos.	T8	T8	T10	T14	T18	T24	T36	T48
Lgth., Ins	6	8	10	14	18	24	36	48
Adj. Ins	½ to ¾	½ to ¾	½ to 1	½ to 1½	½ to 2	½ to 2½	½ to 3½	1 to 5
Wt., Ea., Lbs.	¼	¼	1½	3	5	8½	17	24
Each	$2.00	2.25	2.50	3.50	5.00	7.25	13.50	20.00
	$1.45	1.65	1.80	2.55	3.60	5.25	9.75	14.40

Nos. T8 to T24, half dozen in a box; balance loose.

WOOD HANDLE

Nos.	TW6	TW8	TW10	TW14
Lgth., Ins.	6	8	10	14
Adj., Ins	½ to ½	½ to ¾	½ to 1	½ to 1½
Wt., Ea., Lbs.	¼	¼	1½	3
Each	$2.00	2.25	2.50	3.50
	$1.45	1.65	1.80	2.55

Half dozen in a box.

TRIMO PARTS

No. T1—Movable or Front Jaws.

For Wrenches, In.	6	8	10	14	18	24	36	48
Wt., Each, Lbs.	½	½	½	1	1½	2	4½	7½
Each	$0.75	.80	.85	1.15	1.75	2.25	4.35	7.25
	$ .55	.60	.65	.85	1.35	1.65	3.15	5.25

No. T2—Nuts.

For Wrenches, Inches	6	8	10	14	18	24	36	48
Weight, Each, Ounces	½	½	1½	2½	3½	4½	13	16
Each	$0.12	.15	.20	.30	.35	.55	1.10	1.50
	$ .10	.10	.15	.25	.25	.40	.80	1.10

Loose.

No. T3—Insert Jaws.

For Wrenches, Inches	6	8	10	14	18	24	36	48
Weight, Each, Ounces	½	½	1	2½	3½	5½	9½	16
Each	$0.35	.40	.50	.60	.70	.80	1.10	2.00
	$.25	.30	.35	.45	.50	.60	.80	1.45

No. T4—Frames.

For Wrenches, Inches	6	8	10	14	18	24	36	48
Weight, Each, Lbs.	½	½	¾	¾	½	1	1½	2
Each	$0.38	.42	.50	.60	.75	.95	1.70	2.20
	$ .30	.30	.35	.45	.55	.70	1.25	1.60

Loose.

COMBINATION WRENCHES

BEMIS & CALL PATENT NUT AND PIPE

Head, Bar and Shank One-piece Steel Forging. Parts Interchangeable

This is a Strong and Serviceable Combination of a Nut and Pipe Wrench, and is Equally Efficient in Either Capacity. Is Especially Useful on General Work, as it Obviates Employing Two Wrenches. For General Utility it Has No Equal

With Short Nut

Length, Inches	10	12	15
Adjustable, Inches	½ to 1	1⅛ to 1½	⅛ to 2½
Weight per Dozen, Pounds	25	36	52
Per Dozen	$23.00	$26.00	$37.00
No. 43—Bright Finish	**$41.30**	**46.80**	**66.60**
No. 44—Black Finish	**$39.14**	**44.46**	**63.26**

Dozen in a wood box.

Head, Bar and Shank One-piece Steel Forging. Parts Interchangeable

This is an Efficient Combination of a Nut and Pipe Wrench. Is Provided With a Long Nut or Sleeve Whereby the Whole Hand Can Be Applied in Making Adjustments. Thus Giving Increased Power. The Long Nut Also Protects the Thread.

With Long Nut

Length, Inches	10	15
Adjustable, Inches	½ to 1	⅛ to 2½
Weight per Dozen, Pounds	25	55
Per Dozen	$25.25	$40.50
No. 45—Bright Finish	**$45.48**	**72.90**
No. 46—Black Finish	**43.18**	**65.26**

Dozen in a wood box.

COMBINATION GRIP WRENCHES

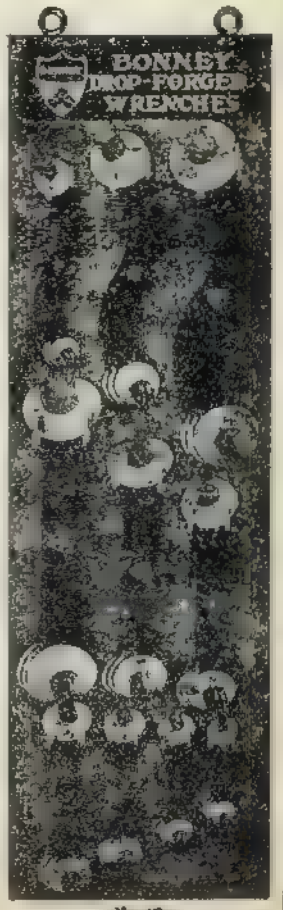
No. 0200

UNIVERSAL THREAD CUTTER

Drop-forged Tool Steel. Oil Tampered Jaws. Nickel-Plated.

	Per Dozen	
No. 0200—Length, 8½ inches; Size of Grip, ½ inch to 1 inch diameter; Size of Dies, $\frac{7}{16}$ x 18 inches; ⅝ x 16 inches; ½ x 13 inches	$8.25	$9.00

Half dozen in a box



No. 60

DROP FORGED WRENCHES

BONNEY ASSORTMENT

Hardened and Ends Ground and Polished. Bodies Finished in Dead-black Enamel. The Display Board is Equipped With Hooks to Hold Three Wrenches of Each Size, and the Number As Well As the Suggested Resale Price is Found At the Side of Each Set of Hooks. Size of Display Board, 7½ x 26 inches. Shipping Weight of Display Board and Thirty Wrenches, 20 pounds.

Three Each of Ten Different Drop-forged Wrenches of the Two Most Popular Designs. Suitable for Farm, Machine, and Automobile Use. There are Three Sizes of 22½-degree General Purpose Wrenches, Nos. 500, 502 and 504; and Seven Sizes of Double Head 15-degree Engineers' Wrenches With Straight Bar. These Sizes are Nos. 21, 23, 25, 27, 29, 31, and 34.

	Per Assortment
No. 60—Contains 30 Wrenches	$12.50 $18.60

One assortment in a box.

OPEN STOCK DROP FORGED WRENCHES AS CONTAINED IN No. 60 ASSORTMENT

Engineers' Wrenches

No.	For U. S. Standard Nuts, Size Bolts	Openings Milled	Extreme Length	Price Each Special Semi-finished	
21	⅜ & ⅜	⅜ & ⅜	3¼	.17	$ .30
23	⅜ & ½	⅜ & ½	4	.21	.36
25	½ & ⅝	½ & ⅝	4½	.25	.42
27	⅝ & ¾	⅝ & ⅝	5¼	.31	.53
29	¾ & ⅞	⅝ & ¾	6¼	.37	.64
31	⅞ & 1	¾ & ⅞	7½	.45	.77
34	1 & 1⅛	⅞ & 1	9¼	.68	1.11

General Purpose Wrenches

22½° Angle

No.	Openings Finished, Inches	Extreme Length, Inches	Price Each Special Semi-finished	
500	⅜ & ½	6½	$ .27	$ .47
502	½ & ⅝	8½	.43	.74
504	⅝ & 1	10¾	.70	1.26

MALLEABLE IRON WRENCHES IN SETS

BONNEY

These Wrenches are Made of the Highest Grade of Malleable Iron, which Gives Plenty of Strength for Any Ordinary Purpose, are Carefully Finished with Polished Heads. Each Set consists of Five Wrenches, Ten Openings, Packed in a Strong Individual Carton, and There are Two Dozen Sets to the Case

Per Dozen Sets

No. **288**—Set of Five Wrenches. Opening from ¼ to 1 Inch **$18.00**

One set in a carton. 24 sets in a case.

"S" WRENCHES

WITH FLAT HANDLE

23½° Angle. Double Head.

Prices on Request

FOR U. S. STANDARD NUTS

FOR HEXAGON HEAD CAP SCREWS

Number	For U. S. Standard Nuts Bine Bolts	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
661A	¼ & ⅜	⅜ & ½	4	⅜	$ .22	$ .32
661B	⅜ & ½	½ & ⅝	4	⅜	.32	.42
661C	½ & ⅝	⅝ & ¾	4	⅜	.22	.32
662A	⅜ & ½	½ & ⅝	5	⅜	.29	.42
662B	½ & ⅝	⅝ & ¾	5	⅜	.29	.42
662C	⅝ & ¾	¾ & ⅞	5	⅜	.29	.42
663A	½ & ⅝	⅝ & ¾	6½	½	.39	.56
663B	⅝ & ¾	¾ & ⅞	6½	½	.39	.56
663C	¾ & ⅞	⅞ & 1	6½	½	.39	.56
664A	⅝ & ¾	¾ & ⅞	7½	⅝	.53	.75
664B	¾ & ⅞	⅞ & 1	7½	⅝	.53	.75
664C	⅞ & 1	1 & 1⅛	7½	⅝	.53	.75
665A	¾ & ⅞	⅞ & 1	9	¾	.72	1.00
665B	⅞ & 1	1 & 1⅛	9	¾	.72	1.00
665C	1 & 1⅛	1⅛ & 1¼	9	¾	.72	1.00
666A	⅞ & 1	1 & 1⅛	10½	⅞	1.00	1.35
666B	1 & 1⅛	1⅛ & 1¼	10½	⅞	1.00	1.35
666C	1⅛ & 1¼	1¼ & 1⅜	10½	⅞	1.00	1.35

Number	For Hexagon Head Cap Screws; Diameter Screws	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
661D	⅛ & 3/16	3/16 & ¼	4	⅜	$ .22	$ .32
661E	¼ & 5/16	5/16 & ⅜	4	⅜	.22	.32
661F	5/16 & ⅜	⅜ & 7/16	4	⅜	.22	.32
661G	7/16 & ½	½ & ⅝	4	⅜	.22	.32
662D	¼ & 5/16	5/16 & ⅜	5	⅜	.29	.42
662E	5/16 & ⅜	⅜ & 7/16	5	⅜	.29	.42
662F	⅜ & 7/16	7/16 & ½	5	⅜	.29	.42
662G	7/16 & ½	½ & ⅝	5	⅜	.29	.42
663D	⅜ & 7/16	7/16 & ½	6½	½	.39	.56
663E	7/16 & ½	½ & ⅝	6½	½	.39	.56
663F	½ & ⅝	⅝ & ¾	6½	½	.39	.56
663G	⅝ & ¾	¾ & ⅞	6½	½	.39	.56
664D	½ & ⅝	⅝ & ¾	7½	⅝	.53	.75
664E	⅝ & ¾	¾ & ⅞	7½	⅝	.53	.75
664F	¾ & ⅞	⅞ & 1	7½	⅝	.53	.75
665D	⅞ & 1	1 & 1⅛	9	¾	.72	1.00
665E	1 & 1⅛	1⅛ & 1¼	9	¾	.72	1.00
665F	1⅛ & 1¼	1¼ & 1⅜	9	¾	.72	1.00
665G	1¼ & 1⅜	1⅜ & 1½	9	¾	.72	1.00

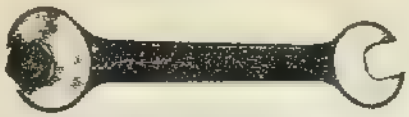
DROP FORGED WRENCHES

WILLIAMS'

Prices on Request

Forgings are Milled. Heads Bright, 15° Angle. Double Head.

ENGINEERS'



Number	For U. S. Standard Nuts Size Bolts	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
21	1/4 & 5/16	1/4 & 13/32	3 1/2	1/16	$ 17	$ 26
22	5/16 & 3/8	5/16 & 7/16	4	1/8	21	32
23	3/8 & 7/16	13/32 & 1/2	4	1/8	21	32
25	1/4 & 5/16	1/4 & 13/32	4 1/2	1/16	25	38
26	5/16 & 3/8	5/16 & 15/32	5 1/4	1/16	31	48
27	3/8 & 7/16	13/32 & 17/32	5 1/2	1/16	31	46
28	7/16 & 1/2	15/32 & 9/16	6 1/4	1/16	37	56
29	1/2 & 9/16	17/32 & 19/32	6 1/2	1/16	37	56
30	9/16 & 5/8	19/32 & 5/8	7 1/2	1/16	45	68
31	5/8 & 3/4	5/8 & 3/4	7 1/2	1/16	45	68
32	7/8 & 15/16	7/8 & 29/32	8 1/2	1/16	56	85
33	15/16 & 1	29/32 & 1	8 1/2	1/16	56	85
34	1 & 1 1/16	1 & 1 1/16	9 1/2	1/8	68	1 08
35	1 1/16 & 1 1/8	1 1/16 & 1 1/8	9 1/2	1/8	68	1 08
36	1 1/8 & 1 1/4	1 1/8 & 1 1/4	11 1/2	1/8	96	1 40
37	1 1/4 & 1 5/16	1 1/4 & 1 5/16	11 1/2	1/16	96	1 40
38	1 5/16 & 1 3/8	1 5/16 & 1 3/8	13 1/2	3/16	1 40	1 90
39	1 3/8 & 1 1/2	1 3/8 & 1 7/16	13 1/2	3/16	1 40	1 90
40	1 1/2 & 1 5/8	1 1/2 & 1 5/8	15 1/2	1/4	1 90	2 60
41	1 5/8 & 1 3/4	1 5/8 & 1 3/4	15 1/2	1/4	1 90	2 60

CHECK NUT OR THIN WRENCH

Number	For U. S. Standard Nuts Size Bolts	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
623	1/4 & 5/16	15/32 & 1/2	4 1/2	1/8 & 5/32	$ 25	$ 38
625	1/2 & 9/16	1/2 & 19/32	4 1/2	1/8 & 5/32	25	38
627	5/16 & 3/8	13/32 & 17/32	5 1/2	1/8 & 5/32	32	48
629	3/8 & 7/16	13/32 & 15/32	6 1/2	1/4 & 3/16	40	60
630	7/16 & 1/2	15/32 & 17/32	6 1/2	1/4 & 3/16	40	60
631	1/2 & 5/8	17/32 & 3/4	6 1/2	1/4 & 3/16	40	60
632	1/2 & 5/8	17/32 & 3/4	8 1/2	1/4 & 1/8	56	80
633	5/8 & 3/4	3/4 & 29/32	8 1/2	1/4 & 1/8	56	80
634	3/4 & 7/8	29/32 & 1 1/16	8 1/2	1/4 & 1/8	56	80
635	7/8 & 1	29/32 & 1 1/16	10 1/2	1/8 & 3/16	84	1 15
636	15/16 & 1	31/32 & 1 1/4	10 1/2	1/8 & 3/16	84	1 15

LIGHT CAP SCREW WRENCH

Number	For Hexagon Head Cap Screws Diameter Screws	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
721	1/4 & 5/16	1/4 & 1/2	3 1/2	1/16	$ 17	$ 26
722	1/4 & 5/16	5/16 & 7/16	4	1/8	.21	32
723	5/16 & 3/8	7/16 & 1/2	4	1/8	.21	32
723A	5/16 & 3/8	7/16 & 1/2	4	1/8	21	32
725	1/4 & 5/16	5/16 & 1/2	4 1/2	1/16	25	38
725A	1/4 & 5/16	5/16 & 7/16	4 1/2	1/16	25	38
725B	5/16 & 3/8	7/16 & 1/2	4 1/2	1/16	25	38
726	5/16 & 7/16	1/2 & 5/8	5 1/2	1/16	31	46
727	3/8 & 7/16	5/8 & 3/4	5 1/2	1/16	31	46
728	1/2 & 5/8	3/4 & 7/8	6 1/2	1/16	37	56

Number	For Hexagon Head Cap Screws Diameter Screws	Openings Milled	Extreme Length	Thickness Heads	Semi-finished	Finished
729	1/4 & 5/16	1/2 & 9/16	6 1/2	1/8	$ 37	$ 56
730	5/16 & 3/8	9/16 & 11/16	7 1/2	1/8	45	68
731	1/4 & 5/16	1/2 & 13/16	7 1/2	1/8	45	68
731A	1/4 & 5/16	1/2 & 9/16	7 1/2	1/8	.45	68
731B	5/16 & 3/8	9/16 & 11/16	7 1/2	1/8	45	.68
732	5/16 & 3/8	11/16 & 1	8 1/2	1/8	55	.85
733	1/4 & 1/2	1/2 & 1	8 1/2	1/16	.55	.85
734	1/4 & 1/2	1/2 & 1 1/8	9 1/2	1/8	68	1 08
735	1/4 & 1/2	1 & 1 1/8	9 1/2	1/8	68	1 08
736	1/4 & 1/2	1 & 1 1/4	11 1/2	3/16	96	1 40

STOCK DISPLAY BOARDS

WILLIAMS' DROP FORGED WRENCHES

For Open Stock of These Wrenches See Pages 295, 296

Prices on Request

"SILENT SALESMAN" L

Superior Drop Forged Wrenches. Length of Board 90 Inches; Weight of Board and 252 Wrenches, 205 Pounds. 42 Sizes and Classes, as Follows:

SINGLE HEAD ENGINEERS' WRENCHES—1st Row

6 each Size No.	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Sizes, Inches	S.A.E. Std. Nuts and Cap Screws, Size, Inches	A.L.A.M. Std. Nut and Cap Screws, Size, Inches	Openings Milled, Inches	Price Semi-finished	Price Finished
1							$ .18	$ .28
3							.26	.38
5							.38	.54
7							.57	.82
8							.75	1.05

DOUBLE HEAD ENGINEERS' WRENCHES—2nd Row

23							$ .21	$ .32
27							.31	.46
31							.45	.68
35							.68	1.08
37							.96	1.40

LIGHT CAP SCREW WRENCHES—3rd and 4th Rows

721							$ .17	$ .26
723							.21	.32
725							.25	.38
725 B							.25	.38
727							.31	.46
729							.37	.56
731							.45	.68
733							.55	.85
737							.96	1.40

"LIGHT SERVICE" S WRENCHES—5th Row

676 B							$ .27	$ .38
677 B							.34	.47
679							.43	.58
681 B							.55	.72
683 B							.70	.90

"S" WRENCHES—6th Row

6 Each Size No.	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Sizes, Inches	S.A.E. Std. Nuts and Cap screws, Size, Inches	A.L.A.M. Std. Nuts and Cap Screws, Size, Inches	Openings Milled, Inches	Price Semi-finished	Price Finished
663 E							$ .39	$ .56
663 G							.39	.56
665 E							.72	1.00
666 E							1.00	1.35

"S" WRENCHES—7th Row

661 D							$ .22	$ .32
661 E							.22	.32
661 F							.22	.32
662 D							.29	.42
662 I							.29	.42
662 G							.29	.42

DOUBLE HEAD ENGINEERS' WRENCHES—8th Row

725							$ .25	$ .38
25							.25	.38
27 C							.31	.46
28 S							.37	.56
731 A							.45	.68
34							.68	1.08
738							.96	1.40

SPARE PLUG WRENCHES at Bottom

2 each Size	Box End Opening Broached, Inches	Open End Opening Milled, Inches		
993			$ .58	$ .85
993 A			.58	.85
994			.70	1.00

Semi-finished—Complete Board	$109.38
Finished—Complete Board	159.00

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

STOCK DISPLAY BOARDS

WILLIAM'S DROP FORGED WRENCHES

Prices on Request

For Open Stock of These Wrenches See Pages 295, 296

"SILENT SALESMAN" A

Automobile Selection. Length of Board, 54 Inches; Weight, 70 Lbs. Board Comprises Following.

"S" WRENCHES

6 each Size No	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Size, Inches	B.A.E. Std. Nuts and Cap Screws, Size, Inches	A.L.A.M. Std. Nut and Cap Screws, Size, Inches	Openings Milled, Inches	Price: Semi-finished	Price: Finished
661 A	¼ & 5/16	¼	5/16			5/16 & 3/8	$ 22	$ 32
662 B	¼ & 5/16	5/16	5/16	5/16	5/16	3/8 & 7/16	29	42
663 C	¼ & 5/16				5/16	7/16 & 1/2	39	56
664 B	5/16 & 3/8	3/8	3/8	3/8	3/8	9/16 & 5/8	53	75

ENGINEERS' WRENCHES

6 each Size No	Openings Milled For	Openings Milled, Inches	Price: Semi-finished	Price: Finished
725	1/4 & 5/16 : 5/16 & 3/8 : 3/8 & 5/16	5/16 & 3/8 : 3/8 & 7/16	$ 25	$ 38
27 C	5/16 & 3/8 : 3/8 & 7/16	7/16 & 1/2	31	46
28	5/16 & 3/8 : 3/8 & 7/16	7/16 & 1/2	37	56
729	5/16 & 3/8 : 3/8 & 7/16 : 7/16 & 1/2	1/2 & 9/16	68	1 08
34	3/8 & 7/16 : 7/16 & 1/2	9/16 & 5/8	96	1 40
736	3/8 & 1 : 1 & 1 1/16 : 7/16 & 1/2	1 & 1 1/16		

"LIGHT SERVICE" S WRENCHES

6 Each Size No	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Size, Inches	B.A.E. Std. Nuts and Cap Screws, Size, Inches	A.L.A.M. Std. Nuts and Cap Screws, Size, Inches	Openings Milled, Inches	Price: Semi-finished	Price: Finished
677 S		1/4	1/4 & 5/16	1/4 & 5/16		5/16 & 3/8	$ 34	$ 47
679 S		5/16	5/16 & 3/8	5/16 & 3/8		7/16 & 1/2	43	58
681 A	1/2	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	9/16 & 5/8	55	72
683 A			1	1/2 & 5/8	7/16 & 1/2	11/16 & 1	70	90
685 C	3/4 & 7/8	1	1 1/4	3/4 & 7/8	9/16 & 5/8	1 1/16 & 1 1/4	1 00	1 30

SPARK PLUG WRENCHES

2 each Size	Box End Opening Broached, Inches	Open End Opening Milled, Inches		
993	13/16	13/16	$ 58	$ 85
993 A	13/16	13/16	58	85
994	1	1	70	1 00

Semi-finished—Complete Board	$48 06
Finished—Complete Board	68 16

"SILENT SALESMAN" B

General Hardware and Machine Shop Selection. Length of Board 54 Inches; Weight, 70 Lbs. Board Comprises following.

ENGINEERS' WRENCHES

6 each Size No	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Size, Inches	B.A.E. Std. Nuts and Cap Screws, Size, Inches	A.L.A.M. Std. Nut and Cap Screws, Size, Inches	Openings, Milled, Inches	Price: Semi-finished	Price: Finished
23	1/4 & 5/16	1/4	1/4 & 5/16	5/16 & 3/8	1/4 & 5/16	1/4 & 5/16	$ 21	$ 32
725	1/4 & 5/16 : 5/16 & 3/8 : 3/8 & 5/16	1/2 & 5/16	1/4 & 5/16	1/4 & 5/16	5/16 & 3/8	5/16 & 3/8	25	38
25	1/4 & 5/16	5/16	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	25	38
27 C	5/16 & 3/8 : 3/8 & 7/16	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	3/8 & 7/16	7/16 & 1/2	31	46
28	5/16 & 3/8 : 3/8 & 7/16	5/16 & 3/8	5/16 & 3/8	5/16 & 3/8	7/16 & 1/2	7/16 & 1/2	37	56
731 A	5/16 & 3/8 : 3/8 & 7/16 : 7/16 & 1/2	3/8 & 7/16	3/8 & 7/16	3/8 & 7/16	1/2 & 9/16	7/16 & 1/2	45	68
34	3/8 & 7/16 : 7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	9/16 & 5/8	9/16 & 5/8	68	1 08
736	3/8 & 1 : 1 & 1 1/16 : 7/16 & 1/2	1 & 1 1/16	7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	1 & 1 1/16	96	1 40

TEXTILE MACHINE WRENCHES

760 B	1/4 & 5/16		1/4		1/4	5/16 & 3/8 : 3/8 & 7/16	$ 26	$ 38
761 C	5/16 & 3/8		5/16		5/16	3/8 & 7/16 : 7/16 & 1/2	31	46
763 A	5/16 & 3/8		3/8		5/16	7/16 & 1/2	53	78
764 B	3/8 & 7/16				3/8	9/16 & 5/8 : 5/8 & 1 1/16	72	1 05

SET SCREW WRENCHES

6 Each Size No	Openings Milled For: U. S. Standard Nuts, Size Bolts, Inches	Hex. Head Cap Screws, Inches	Set Screws, Size, Inches	B.A.E. Std. Nuts and Cap Screws, Size Inches	A.L.A.M Std Nuts and Cap Screws, Size, Inches	Openings Milled, Inches	Price: Semi-finished	Price: Finished
525	1/4	1/4	1/4 & 5/16			1/4 & 5/16	$ 24	$ 35
527		1/4 & 5/16	5/16 & 3/8			5/16 & 3/8	29	42
529		5/16 & 3/8	3/8 & 7/16	1/4	1/4	7/16 & 1/2	35	52
531	1/4	1/4 & 5/16	7/16 & 1/2	1/4 & 5/16		9/16 & 5/8	45	66

"S" WRENCHES

661 A	1/4 & 5/16	1/4	5/16			5/16 & 3/8	$ 22	$ 32
662 B	1/4 & 5/16	5/16	5/16	5/16	5/16	3/8 & 7/16	29	42
663 C	1/4 & 5/16				5/16	7/16 & 1/2	39	56
664 B	5/16 & 3/8	3/8	3/8	3/8	3/8	9/16 & 5/8	53	75

Semi-finished—Complete Board	$48 30
Finished—Complete Board	71 58

WRENCHES

"FAVORITE" REVERSIBLE STEEL RATCHET

Adopted for Standard Use by Railroads, Bridge, Ship or Engine Builders, Contractors, Etc.
Of Special Value to Wood-Stave Pipe Builders

Its motion is continuous until nut is seated or removed.
Opening through head allows bolt to pass clear through.
Nut encompassed on all sides by head, cannot slip and become injured.
Reverse motion instantaneous by simply turning pawl from right to left or vice-versa.

Can be used in narrower places than an ordinary wrench.

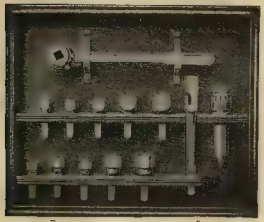
Wrench No.	Without Head, Each.	Length of Handle, Each.	Takes Heads.
1	$2.00	15	A, B, C, O
2	2.50	23	D, E, F, G, M
2½	3.50	28	Z
3	3.50	28	H, L

ASSORTMENT OF HEADS

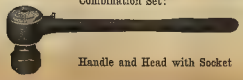
All Heads Are Double End. Following List Shows Sizes and Shapes of Heads and Size of Wrench Required

HEAD	PRICE, EACH	Openings for Standard Nuts in inches	EXACT OPENINGS.	Openings for Standard Nuts in inches	Fit Handles
O	$2 00	¼ Square		⅜ Square	No. O
A	2 50	½ Square		½ Hexagon	No. 1
B	2 50	⅝ Square		⅝ Hexagon	No. 1
C	2 50	⅝ Hexagon		¾ Hexagon	No. 1
D	3 00	¾ Hexagon		⅞ Hexagon	No. 2
E	3 00	¾ Square		¾ Hexagon	No. 2
F	3 00	⅞ Square		⅞ Hexagon	No. 2
G	3 00	⅞ Hexagon		1 Hexagon	No. 2
M	3 00	1 Hexagon		1⅛ Hexagon	No. 2
Z	3 00	1⅛ Hexagon		1¼ Hexagon	No. 2½
H	4 00	1 Square		1 Hexagon	No. 3
L	4 00	1¼ Square		1¼ Hexagon	No. 3

SEATTLE HARDWARE COMPANY



Combination Set:



Handle and Head with Socket

No. 0 Wrench and Attachments—Complete set as specified below on strong, well-made Oak Wrench-Board, ready to hang in Engine Room; Japanned.....Each, $30 00

Set contains one 15-in. Handle or Wrench, and one Head with openings for ¼-in. and ⅜-in. Square Standard Nuts.

One Set of Sockets to fit head, consisting of one 8-in. Extension Socket, ten sockets to fit Standard Nuts, one each, Square and Hexagon ⅜, ⅞, ½, ⅝ and ¾.

One Drill Head for Square-Shank Ratchet Drills.

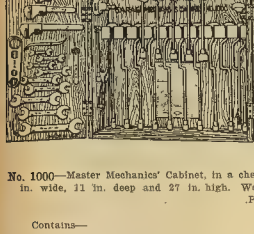
Handle, Head, Extension and Socket

Handle with Drill Head

Handle and Head

SOCKET WRENCH SETS

MOSSBERG



No. 1000—Master Mechanics' Cabinet, in a chestnut case, 30 in. wide, 11 in. deep and 27 in. high. Weight, 147 lbs. .Per set, $50.00

Contains—

Ten "All Steel" solid black rust-proof speed Brace Socket Wrenches, one each Nos. 1733, 1737, 1739, 1741, 1745, 1749, 1751, 1753, 1757, 1761 and fitting U. S. Standard Nuts ⅛ to ½ in. inclusive, U. S. Standard Cap Screws ¼ to ⅝ in. inclusive and S. A. E. Nuts and Cap Screws ¼ to ⅝ in. inclusive.

Five "Heavy Duty" 12-in. Socket Tee Wrenches, one each Nos. 1337, 1341, 1345, 1349 and 1357 and fitting ¼, ⅜ and ½ in. U. S. Standard Nuts, ⅜, ⅞, ½ and ⅝ in. U. S. Standard Cap Screws, ⅜, ⅞, ½ and ⅝ in. S. A. E. Nuts and Cap Screws

Nine full polished, hardened thin double end Engineers' Wrenches, one each Nos. 220, 232, 234, 244, 254, 267, 274, 278 and 293, and fitting U. S Standard Nuts ¼ to ⅝ in. inclusive, U. S. Standard Cap Screws ⅜ to ⅝ in. inclusive, and 1 in, S. A. E. Nuts and Cap Screws ¼ to ⅞ in. inclusive.

Three Adjustable Auto Wrenches, one each No. 74, 4½ in. long; No. K19, 9½ in. long, with tire lever; No. K11, 11-in. Adjustable Wrench.

One No. 3 Cotter Pin Extractor.

One No. 610 Universal Valve Lifter.

One No. 655 Universal Valve Lifter.

Three Demountable Rim Brace Wrenches, one each No. 361, Rim Wrench for Kelsey rims; No. 362, Rim Wrench for Firestone rims, No. 363, Rim Wrench for Baker and other rims

One pair Sterling Combination Pliers.

Seven Special Ford Wrenches, one each No. 624, Ratchet Connecting Rod Socket Wrench; No. 635, Spark Plug and Cylinder Head Screw Wrench; No. 637, Flywheel Cap Screw Wrench; No. 660, Wheel Puller for Ford and Chevrolet cars; No. 630, Triple End Cylinder Head Screw and Rear Axle Housing Nut Wrench; No. 640, Hub Cap Wrench; No. 645, Ratchet Reverse and Brake Pedal Tension Spring Wrench.

LANE'S UNIQUE

Standard—In strong leatherette case. Weight, 13 ounces. .....Per set, $4.00

Set contains one 7-in Reversible Ratchet Handle; two Screw Driver Bits; seven Steel Sockets, machined from solid bar, fitting U. S. Standard Nuts, ⅜ to ⅝ in. inclusive; S. A. E. Standard Nuts and Cap Screw Heads, ⅜ to ⅝ in, and is designed for close work and enables the user to get at nuts and bolt heads impossible with any other wrench.

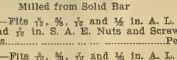
The wrench is intended for the smaller nuts only, the bronched opening in sockets being for the size nuts ranging from ⅜ in. to ⅝ in. inclusive, outside diameter.

LANE'S UNIQUE

Ford—In strong leatherette case. Weight, 22 ounces ..Per set, $4.00

Set contains one 7-in. Reversible Ratchet Handle; two Screw Driver Bits; one 6 in. Extension Bar; six Steel Sockets, machined from the solid bar, fitting all nuts and bolt heads on Ford Cars, including the Cylinder Head.

CURKO



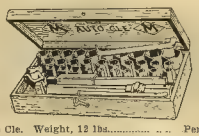
Milled from Solid Bar

No. C-2—Curko—Fits ⅞, ⅜, ⅞ and ½ in. A. L. A. M. Nuts and Screws and ⅞ in. S. A. E. Nuts and Screws. Weight per set, 1¼ lbs..... .....Per set, $1.75

No. C-3—Curko—Fits ⅞, ⅜, ⅞ and ½ in. A. L. A. M. Nuts and Screws and S. A. E. Nuts and Cap Screw Heads ¼ to ⅝ in. inclusive. Weight per set, 1½ lbs.. .....Per set, 2.75

Both above sets furnished in a canvas container.

MOSSBERG



No. 1—Auto Cle. Weight, 12 lbs..... .. .. Per set, $14.00

Set includes 28 Hexagon Rust-Proof Sockets, fitting U S Standard Hexagon Nuts ⅛ to ⅜ in. inclusive; U. S. Standard cap screws, ¼ to 1 in. inclusive; S. A. E. nuts and cap screw heads, ¼ to ⅞ in. inclusive; 3 square rust-proof sockets, fitting U. S. Standard nuts, ¼ and ⅞ in.; square head set screws, ⅜, ½ and ⅝ in.; one take-down, reversible handle, nickel plated; one universal joint; one 9½ in. extension bar; one 1⅝ in. extension bar, and one offset screw driver.

One set in a wooden box

No. 9—Weight, 9 lbs. .....Per set, $10.00

Set includes 19 Mottled, Hardened, Pressed Steel Sockets, fitting U. S. Standard hexagon nuts, ¼ to ⅜ in. inclusive; hexagon head cap screws, ¼ to 1 in. inclusive, and S. A. E nuts and cap screws heads, ⅜ to ⅝ in. inclusive, also 7 Mottled, Hardened, Pressed Steel Sockets, fitting square head set screws, ⅜ to 1 in. inclusive; U. S. Standard square head machine bolts, ¼, ⅞ and ⅜ in.; one 9½ in. ratchet socket wrench handle, one extension bar, one universal joint and two screw driver bits.

One set in a wooden box.

SOCKET WRENCH SETS

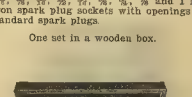
MOSSBERG

No. 10—Universal Automobile Set. Weight, 9 lbs. ..... Per set, $10.00

For use in automobile repair and garage equipment.

Set consists of ratchet, one socket wrench handle, one 9½ in. extension bar, one universal joint, two screw driver bits and 21 mottled, case-hardened, pressed steel hexagon sockets to fit U. S. Standard hexgxon nuts, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾ in.; S. A. E. Standard hexagon nuts and screws, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16 in.; U. S. Standard hexagon head cap screws, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾ and 1 in., and two special hexagon spark plug sockets with openings 13/16 and 1 1/16 in., fitting standard spark pluga.

One set in a wooden box.



No. 11—Automobile, Aeroplane and Autoboat Set. Weight, 6 lbs .. .. Per set, $7.50

For factories, power plants, mills and machinery use.

Set consists of ratchet wrench, extension tube 9½ in. long, hexagon spark plug socket with 13/16 in. opening, and 14 mottled, case-hardened, pressed steel sockets to fit U. S. Standard hexagon nuts, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾ in.; hexagon head cap screws, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝ and ¾ in.

One set in a wooden box.

No. 13—Weight, 6 lbs. ..... Per set, $5 50

Set includes one ratchet socket wrench handle; one extension tube, 9½ in. long; 15 hexagon, rust proof, hardened pressed steel sockets, fitting U S Standard hexagon nuts, ¼ to ⅝ in inclusive, hexagon head cap screws, ¼ to ¾ in inclusive, S A E nuts and cap screw heads, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝ and ¾ in , and one hexagon spark plug socket with 13/16 in. opening.

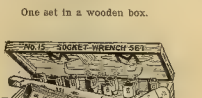
One set in a wooden box

MOSSBERG

No. 14—Machinists' and Automobile Set Weight, 18 lbs. ..... Per set, $17.00

Set consists of ratchet wrench, take-down handle and extension bar, offset socket wrench, nickel-plated combination plier, pipe grip, general service double-end wrenches, universal joint, 3 special spark plug sockets, 3 sizes of screw-driver bits, cotter-pin extractor, 23 sizes hexagon sockets and 11 sizes square sockets, properly hardened and mottled, fitting U. S. Standard hexagon nuts, ¼ to ⅝ in. inclusive; hexagon head cap screws, ¼ to 1 in. inclusive; S. A. E. nuts and cap screw heads, ¼ to 7/8 in. inclusive; square head set screws, ⅜ to 1 in. inclusive; U. S. Standard square head machine bolts, ¼, 5/16, ⅜, ½, 9/16 and ⅝ in.

One set in a wooden box.



No. 15—Mcsaberg Ford Set. Weight, 6 lbs.. ..... Per set, $8.00

Set consists of one ratchet socket wrench, one swivel or universal joint, permitting the use of the wrench at any angle; one tubular extension bar, one screw driver bit; one 6 in. monkey wrench, and 11 sizes pressed steel sockets, mottled finish, nine with hexagon opening and two with square opening, fitting U. S. Standard hexagon nuts, ¼, 5/16 and ⅜ in.; hexagon head cap screws, 3/16, 7/32 and 1/4 in.; S A. E. nuts and cap screw heads, 3/16, 7/32, 1/4 and 5/16 in.; square head set screws, ¼ and 5/16 in.; also one 13/16 in. oval socket, which fits crank shaft bearing bolts, and one 13/16 in. spark plug socket for Champion "X" spark plugs. The 13/16 and 13/16 in. sockets are tapered so as to fit rear axle housing and engine base bolts.

One set in a wooden box.

No. 45—Heavy Duty. Weight, 9¼ lbs . . Per set, $11.00

This set has a black, rust-proof finish. Instead of buying fifteen individual speed wrenches, it is possible to obtain, in this set, one brace handle with sockets to fit. When a socket is worn out it may easily be replaced at small expense. The set consists of one speed brace handle No. 359; 15 heavy duty sockets, fitting all U. S. Standard nuts, ¼ to ⅝ in; U. S. Standard cap screws, ¼ to 1 in., and S. A. E. nuts and cap screw heads, ¼ to 7/8 in.; also contains one universal joint No. 336 and one connecting socket No. 167.

One set in a chestnut wood box.

SOCKET WRENCH SETS

WALDEN

No. 8—Walden. Weight, 5½ lbs..... Per set, $9 90

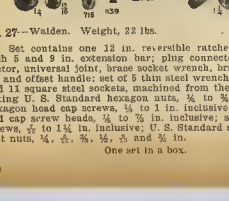
This set contains one 9 in. reversible ratchet wrench, one 9 in. extension bar, one plug connector, one socket connector, one universal joint, seven hexagon steel sockets and one square steel socket. These sockets are made from the solid bar and fit U. S. Standard hexagon nuts, ¼, ⅜ and ½ in.; U. S. Standard cap screw heads, ⅛, ⅜, ⅛, ½ and ⅝ in; S. A. E. nuts and cap screw heads, ⅛ to ⅝ in. inclusive. The square socket has a ⅛ in. opening and fits the latest crank shaft bearing bolts on a Ford car.

One set in a finished tool box.

No. 16—Walden. Weight, 9½ lbs.....Per set, $13 20

This set contains one 9 in. reversible ratchet wrench, one 9 in. extension bar, one plug connector, one socket connector, one universal joint and 16 hexagon steel sockets, machined from the solid bar, fitting U. S. Standard hexagon nuts, ¼ to ⅝ in. inclusive; hexagon head cap screws, ¼ to 1 in. inclusive, and S. A. E. nuts and cap screw heads, ¼ to ⅝ in. inclusive

One set in a finished tool box



No. 27—Walden. Weight, 22 lbs. . Per set, $24 20

Set contains one 12 in. reversible ratchet wrench; one each 5 and 9 in. extension bar; plug connector, socket connector, universal joint, brace socket wrench, brace top handle, tee and offset handle; set of 5 thin steel wrenches; 16 hexagon and 11 square steel sockets, machined from the solid bar, and fitting U. S. Standard hexagon nuts, ¼ to ⅝ in. inclusive; hexagon head cap screws, ¼ to 1 in. inclusive; S. A. E. nuts and cap screw heads, ¼ to ⅝ in. inclusive; square head set screws, ⅛ to 1¼ in. inclusive; U. S. Standard square machine bolt nuts, ¼, ⅜, ⅜, ½, ⅝ and ¾ in.

One set in a box.

VLCHEK

No. 926—Vlchek Bent Socket Wrench Set for Ford Car, in canvas case. Weight, 2¾ lbs..... ...Per set, $7.00

Set consists of one each of the following wrenches, in a heavy canvas case:

Size F51—For rear axle housing bolt nut and all ¼ in. U. S. Standard nuts and ⅛ in. cap screws.

Size F52—For rear axle housing stud nut and all ⅜ in. cap screws.

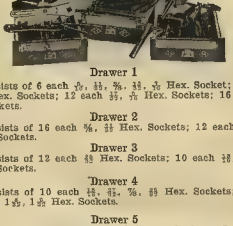
Size F53—For drive shaft housing nut and all ⅛ in. U. S. Standard nuts and ⅛ in. cap screw heads.

Size F55—For crank shaft bearing bolt nut and all ½ in. cap screws

Size F58—Special for flat head of low speed adjusting screw.

Contained in heavy canvas case, including bars for turning.

MOSSBERG CABINET ASSORTMENT



Drawer 1

Consists of 6 each ⅛, ¼, ⅜, ½, ⅝ Hex. Socket; 10 each ⅛, ½ Hex. Sockets; 12 each ⅜, ⅛ Hex. Sockets; 16 each ½ Hex. Sockets.

Drawer 2

Consists of 16 each ⅜, ½ Hex. Sockets; 12 each ⅛, ⅝, ¾ Hex. Sockets.

Drawer 3

Consists of 12 each ⅝ Hex. Sockets; 10 each ⅞, ⅞, ⅞, ⅛ Hex. Sockets.

Drawer 4

Consists of 10 each ⅛, ⅛, ⅞, ⅝ Hex. Sockets; 5 each 1 ⅛, 1 ⅛, 1 ⅜, 1 ½ Hex. Sockets.

Drawer 5

Consists of 4 each ⅜, ⅛, ⅜ Square Sockets; 5 each ⅜, ½ Square Sockets; 3 each ⅝, ⅝, ⅞, 1 ⅛, 1 ¼ Square Sockets; 4 each Universal Joints No. 336, 55c each.

Drawer 6

Consists of 4 each No. 350 Handles, $2.50 each; 4 each No. 355 Handles, $1 28 each; 4 each No. 351 Extra Tubes, 60c each

Drawer 7

Consists of 5 Canvas Kits No. 3, no charge; 10 Catalogs

Drawer 8

Consists of 4 No. 340 Handles, 60c each; 4 No. 322 Handles, 35c each; 6 No. 401 Spark Plug Wrenches, 36c each; 6 No. 406 Spark Plug Wrenches, 36c each; 3 No. 411 Spark Plug Wrenches, 36c each; 6 No 421 Spark Plug Wrenches, 36c each; 21 Wire Handles.

No. 300 Mossberg Cabinet Assortment. Weight, 134 lbs. ..... Each, $85.00

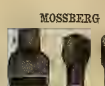
Extra Sockets—One dozen in a box. ..... Per dozen, $4.20

This Chest affords a very convenient way to stock these parts and the dealer in automobile supplies will readily appreciate its usefulness.

SOCKET WRENCHES

SPARK PLUG

MOSSBERG HEXAGON



Size	FITTING U. S. Std. Cap Screw Hex. Nut	U. S. Std. Cap Screw Head.	S. A. E. and A. L. A. M. Nuts and Cap Screw Heads	Nuts and Cap Screw Heads	Mnfrs. Std. Head	Mfg Std. Nut
5/6	.....	.....	.....	.....	.....	.....
11/32	No. 6 Mach. Screw Nut	.....	.....	.....	.....	.....
3/8	No. 8 Mach. Screw Nut	.....	.....	.....	.....	.....
13/32	No. 10 Mach. Screw Nut	.....	.....	.....	1/4	.....
7/16	No. 10 Mach. Screw Nut	.....	.....	.....	.....	.....
15/25	Nos 12 & 14 Mach. Screw Nut	1/4	1/4	1/4	.....	1/4
1/2	.....	.....	.....	.....	5/16	.....
17/32	1/4	5/16	5/16	5/16	.....	.....
9/16	.....	.....	.....	.....	.....	5/16
19/32	.....	3/8	3/8	3/8	3/8	.....
5/8	5/16	.....	.....	.....	.....	.....
21/32	.....	7/16	7/16	.....	.....	3/8
11/16	.....	.....	.....	.....	7/16	.....
23/32	3/8	.....	.....	7/16	.....	.....
3/4	.....	.....	.....	.....	.....	7/16
25/32	.....	1/2	1/2	1/2	1/2	.....
13/16	7/16	.....	.....	.....	.....	.....
35/32	.....	9/16	.....	.....	.....	1/2
7/8	.....	.....	.....	.....	9/16	.....
29/32	1/2	5/8	9/16	9/16	.....	.....
15/16	.....	.....	.....	.....	.....	9/16
31/32	.....	.....	5/8	5/8	5/8	.....
1	9/16	.....	.....	.....	.....	.....
1 1/32	.....	3/4	11/16	11/16	.....	5/8
1 1/32	5/8	.....	3/4	.....	.....	.....
1 3/32	.....	7/8	.....	3/4	.....	.....
1 9/32	3/4	1	7/8	7/8	.....	.....

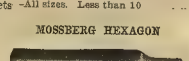
Hexagon Sockets—All sizes. Lots of 10.....Each, $0.20
Hexagon Sockets—All sizes. Less than 10..... " .35

MOSSBERG SQUARE

Size	FITTING U. S. Std Square Nuts.	U. S. Std. Sq. Hd. Set Scr	Mnfrs Std. Head	Std. Nut
13/32	.....	7/16	7/16	7/16
13/32	.....	5/8	1/4	.....
15/32	.....	7/16	.....	1/4
17/32	1/4	1/2	5/16	.....
19/32	.....	9/16	3/8	5/16
21/32	5/16	5/8	.....	3/8
23/32	3/8	.....	7/16	.....
25/32	.....	3/4	1/2	7/16
29/32	1/2	7/8	9/16	1/2
1 1/32	9/16	1	5/8	5/8
1 5/32	.....	1 1/8	3/4	.....
1 7/32	5/4	1¼	3/4	.....

Square Sockets—All sizes. Lots of 10 . . Each, $0.20
Square Sockets –All sizes. Less than 10 . . " 35

MOSSBERG HEXAGON



Single End. For Use With Ratchet Socket Wrench

No. 402—	Opening	3/8 in.	Each, $0.28	$0.50
No. 407—	Opening	5/8 in	" .28	.50
No. 412—	Opening	1 1/2 in.	" .28	.50
No. 422—	Opening	1 1/2 in.	" .28	.50

Single End with Wire Handle

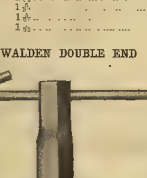
No. 401—	Opening	3/8 in.	Each,	$0.36
No. 406—	Opening	5/8 in	"	.36
No 411	Opening	1 1/2 in.	"	36
No. 421—	Opening	1 1/2 in.	"	.36

MOSSBERG HEXAGON

Double End, With Wire Handle

	Openings—	
No. 451	3/8 1 5/8	Each, $0.40
No. 453	5/8 1 5/8	" .40
No. 455—	5/8 1 1/2	" .40
No. 457—	1/2 1 5/8	" .40
No. 458	1 1/2 1 5/8	" 40
No. 459—	5/8 1 1/2	" .40

WALDEN DOUBLE END



Pressed Steel, Case Hardened

With wire handle, having openings 1/64 in. oversize, instead of 1/32 in., which practically prevents "ringing."

No. 2931	Opening, 57/64 and 61/64 in	Each, $0.55
No. 2933—	Opening, 57/64 and 1 1/64 in	" .55
No. 2937—	Opening, 57/64 and 1 9/64 in	" .55
No. 3137—	Opening, 61/64 and 1 9/64 in	" 55

COMPARATIVE NUMBERS SPARK PLUG WRENCHES

Mossberg.	Walden.	Black Hawk.
No. 451	No. 2937	" " "
No. 453	No. 2931	" " "
No. 455	No. 2933	No. 3329
No. 457	No 3137	No. 3731

Weight each, 12 oz.

Some Popular Spark Plugs These Various Wrenches Will Fit

No. 451 and No. 2937—Bethlehem, Bosch, Jumbo Giant, Leader Giant, Metzger, Premier, Reliance, Rex Lion, Spitfire, Splitdorf Code 784, Splitdorf Code 163, Sterling, Stewart "V Ray," Vital, Viking.

No. 453 and No. 2931—Auburn "Ford Size," Auburn "Long" Henry, Champion "O," Champion Toledo, Champion "X," Harvard, Liberty, Master Superior, Perfection, Rajah, Red Head, Reflex, Splitdorf Code 145, Symonds.

No. 455 and No. 2933 and No. 3329—A-C Cico, A-C Titan, A. V. Regular, Benton, Bethlehem, Derf, Fohat, Hertz Bougie Mercedes, Mosler, Norwalk, Perfection, Red Head, Sootless, Splitdorf Code 145.

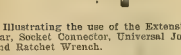
No. 457 and No. 3137 and No. 3731—A. C. Old Style, Auburn, Monarch, Bergie National, Bosch, Jumbo Giant, Leader Giant, Miller, Rex Lion, Splitdorf Code 784, Splitdorf Code 163, Sterling, Stewart "V Ray," Viking, Vital.

SEATTLE HARDWARE COMPANY

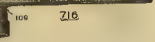
COMBINATION WRENCH PARTS

No. 716—Reversible Ratchet Wrench for new style steel sockets. Length, 12 in.; ½ in. square opening. Weight, 2 lbs.... ..... Each, $3.30

Illustrating the use of the Extension Bar, Socket Connector, Universal Joint and Ratchet Wrench.

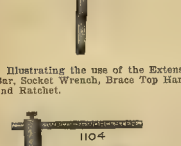


Illustrating the use of the Socket Plug Connector and Ratchet Wrench.



No. 516—Reversible Ratchet Wrench for new style steel sockets. Length, 9 in.; ½ in. square opening. Weight, 1½ lbs. ..... Each, $2.75

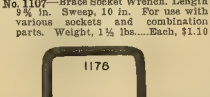
Illustrating the use of the Extension Bar, Socket Wrench, Brace Top Handle and Ratchet.



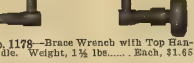
No. 1104—Combination Tee and Offset Wrench Handle. Movable handle; ½ in. solid steel. Weight, 1 lb ..... Each, $0 99

WALDEN

No. 1107—Brace Socket Wrench. Length 9¾ in. Sweep, 10 in. For use with various sockets and combination parts. Weight, 1½ lbs.....Each, $1.10



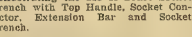
No. 1178—Brace Wrench with Top Handle. Weight, 1½ lbs..... Each, $1.65



Illustrating the use of Brace Socket Wrench with Top Handle, Socket Connector, Extension Bar and Socket Wrench.

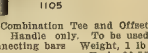
No. 1105—Combination Tee and Offset Wrench. Handle only. To be used with connecting bars Weight, 1 lb ..... Each, $0.55

With the new style Walden Sockets it is necessary to use a "Connector." The various styles are shown below.

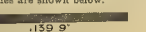


No. 1135—5 in. Solid ½ in. steel extension bar. Weight, ½ lb. ...Each, $0.44

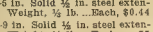
No. 1139—9 in. Solid ½ in. steel extension bar. Weight, ½ lb ...Each, .55



No. 1102—Universal Joint. Solid steel. Will work successfully at a 45 degree angle. Weight, ½ lb.....Each, $1.65



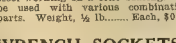
No. 1109—Plug Connector, ½ in. square bar.. . .. . Each, $0 33



No. 1110—Round Socket Connector with ½ in. square hole . ....Each, $0 33

No. 1108—Brace Top Handle. Pressed steel working on a cone bearing. To be used with various combination parts. Weight, ½ lb..... Each, $0 55

WRENCH SOCKETS



The Walden Worcester Co. have discontinued the pressed steel socket and are making an entirely new line of steel sockets, machine made from the solid steel bar. The square or hexagon hole is broached out 1/64 oversize instead of 1/32, making a snug, firm fit, which prevents "ringing" of the socket.

Sq No	Hex No.	Sizes	U. S. Nuts and Cap Screws	U. S. Stand. Set Screws	U. S. Stand. Cap Screws	U. S. Stand. Nuts Unfinished.
114	214	7/16	1/4	.	1/4	. .
116	216	1/2	1/4	1/4	1/4	1/4
118	218	9/16	5/16	....	5/16	. .
. .	219	19/32	.	5/16	.	5/16
120	220	5/8	5/16	..	5/16	. . .
122	222	11/16	. . .	3/8	.	3/8
124	224	3/4	3/8	.	3/8	. .
..	226	13/16	.	7/16	....	7/16
..	226	13/16	. . .	.	7/16	. .
128	228	7/8	7/16	.	7/16	7/16
..	230	15/16	5/8	.	.	. . .
..	231	31/32	.	7/16	. . .	7/16
132	232	1	1/2	. .	3/4	. .
..	234	1 1/16	5/8	5/8	.	5/8
136	236	1 1/8	.	.	7/8	. .
140	240	1 1/4	7/8	3/4	1	3/4

Square

No. 114—Size, 7/16 in.	Each.	$0.33
No. 116—Size, 1/2 in.... .	"	.33
No. 118—Size, 9/16 in....	"	.33
No. 120—Size, 5/8 in.	"	.44
No. 122—Size 11/16 in	"	.44
No. 124—Size, 3/4 in..	"	.66
No. 128—Size, 7/8 in .	"	.66
No. 132—Size, 1 in	"	.66
No. 136—Size 1 1/16 in .	"	.66
No. 140—Size, 1 1/4 in	"	.66

Hexagon

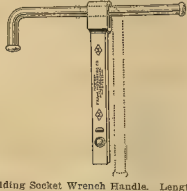
No. 214—Size, 7/16 in..	Each,	$0 33
No. 216—Size 1/2 in.	"	.33
No. 218—Size, 9/16 in	"	.33
No. 219—Size 19/32 in..	"	.33
No. 220—Size, 5/8 in	"	.33
No. 222—Size, 11/16 in .	"	.33
No. 224—Size, 3/4 in	"	.44
No. 226—Size, 13/16 in .	"	.44
No. 226—Size, 13/16 in	"	.44
No. 228—Size, 7/8 in.. . . .	"	.44
No. 230—Size, 15/16 in .	"	.44
No. 231—Size, 31/32 in.	"	.55
No. 232—Size, 1 in. . . .	"	.55
No. 234—Size, 1 1/16 in . .	"	.55
No. 236—Size, 1 1/8 in . . .	"	.55
No. 240—Size, 1 1/4 in. .	"	.55

COMBINATION WRENCH PARTS

MOSSBERG

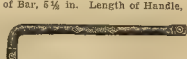
No. 340—Take-Down "T" Handle Length, 10⅛ in. Weight, 20 oz. . . . . Each, $0.60

Fits all sizes of Mossberg, old style Walden or Black Hawk Sockets.



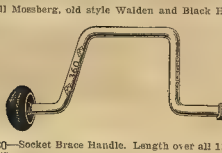
No. 310—Folding Socket Wrench Handle. Length of bar, 5¼ in.; handle, 6 in. Weight, 10 oz . . . . . Each, $0.80

Fits all Mossberg, old style Walden and Blackhawk Sockets. Length of Bar, 5¼ in. Length of Handle, 6 in.



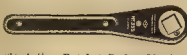
No. 322—Double End Socket Wrench Handle. Weight, 11 oz . . . . . Each, $0.35

Fits all Mossberg, old style Walden and Black Hawk Sockets



No. 360—Socket Brace Handle. Length over all 12 in. Weight, 12 oz. . . . . Each, $0.56

Fits all Mossberg, old style Walden or Black Hawk Sockets.



No. 355 Single Acting Ratchet Socket Handle. Weight, 10 oz . . . . . Each, $1.25

No. 350—Reversiblbe Ratchet Socket Handle. Weight, 22 oz. . . . . Each, 2.50

Fit all Mossberg, old style Walden and Black Hawk Sockets

SOCKET WRENCHES

WIRE HANDLE

The usefulness of this type of wrench in the automobile field has created a persistent demand for Walden, Blackhawk and Mossberg Wrenches.

On the following pages we illustrate these three lines.

Early in January, 1920, the Walden-Worcester Inc. installed a new automatic plating machine, which gives to their tools a Triple Rust-Proof Finish. Successive deposits of zinc, copper and nickel produce a lasting finish. The Blackhawk Wrenches have a black, rust-proof finish.

The openings are made 1/64 oversize (instead of 1/32 oversize, which practically eliminates the old trouble of "ringing" the wrench.

The Mossberg Company recognized the demand for a more sturdy Wire Handle Socket Wrench than either the Walden or Blackhawk and have introduced their line of Heavy Duty Indestructible Wrenches.

In order to readily find out just what nuts or bolt heads these Wrenches will fit we give the table as shown below:

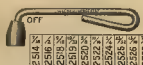
The following table is especially adaptable to the Walden and Blackhawk lines, but is also applicable to the Mossberg line.

Size of Socket.	S. A. E. Nuts and Cap Screws	U. S. Std. Nuts.	U. S. Std. Cap Screws.	U. S. Std. Bolt Heads Unfinished
No. 0014	7/32	1/4	1/4	
No. 0016	1/8	5/16	5/16	1/4
No. 0018	5/32	3/8	3/8	
No. 0019	3/16	7/16	7/16	5/16
No. 0020	7/32	1/2	1/2	
No. 0022	1/4	9/16	9/16	3/8
No. 0024	5/16	5/8	5/8	7/16
No. 0025	3/8	3/4	3/4	1/2
No. 0026	7/16	7/8	7/8	9/16
No. 0028	1/2	1/2	5/8	1/2
No. 0030	1/2	5/8	5/8	
No. 0031	9/16	3/4	3/4	5/8
No. 0032	1	11/16	3/4	3/4
No. 0034	1 1/16	3/4	7/8	5/8
No. 0036	1 1/8	7/8	7/8	
No. 0040	1 1/4	7/8	1	3/4

The last two figures of either the Walden, Mossberg or Blackhawk numbers represent the size of the socket. For instance, the No. 2514 Walden Wrench shows that the opening of the socket is 14/32 or 7/16 (.004 in the table). The exact opening is 29/64, but both Walden and Blackhawk consider this 1/64 as clearance.

The Mossberg Company, however, give the size opening in 64ths. Therefore the wrench with an opening of 29/64 has the last two figures of the number as 29. For instance, No. 1529 shows that the opening is 29/64, which is the same as a 7/16 in. opening in the Walden or Blackhawk Wrench. In order to facilitate the use of the table we are cataloging the openings of the Mossberg Wrenches the same as the Walden line.

WALDEN



2514	2516	2518	2519	2520	2522	2524	2525	2526	2528
7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1

No. 2500 Series

Length of Handle, 7 in.

Walden.	Blackhawk		
No. 2514	No. 1114	Opening, 7/16 in. . .	Each, $0 50
No. 2516	No. 1116	—Opening, 1/2 in . . .	" .50
No. 2518	No. 1118	Opening, 9/16 in. . . .	" .50
No. 2519	No. 1119	—Opening, 5/8 in... . .	" .50
No. 2520	No. 1120	—Opening, 11/16 in. . .	" 50
No. 2522	No. 1122	Opening, 3/4 in	" .50
No. 2524	No. 1124	—Opening, 13/16 in . . .	" 50
No. 2525	No. 1125	Opening, 7/8 in. ..	" .50
No. 2526	No. 1126	Opening, 15/16 in. . . .	" .50
No. 2528	No. 1128	—Opening, 1 in . . .	" 50

SEATTLE HARDWARE COMPANY

SOCKET WRENCHES

MOSSBERG'S T HANDLE "HEAVY DUTY"

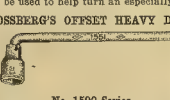
No. 1100 Series

No. 1129	Opening, 1/2 in.	No. 1153	Opening, 1 1/8 in
No. 1133	Opening, 9/16 in.	No. 1157	Opening, 5/8 in.
No. 1137	Opening, 5/8 in.	No. 1161	Opening, 1 1/8 in
No. 1139	Opening, 1/2 in.	No. 1163	Opening, 1 1/4 in
No. 1141	Opening, 3/4 in	No. 1165	Opening, 1 in.
No. 1145	Opening, 1 1/4 in	No. 1169	Opening, 1 1/2 in
No. 1149	Opening, 3/4 in.	No. 1181	Opening, 1 1/4 in.
No. 1151	Opening, 5/8 in		

All Sizes . . . . . Each, $0.72

Construction—Made of 1/2-in. Steel Bar. Length, 6 in. over all. Finish, Black Rust Proof. The case-hardened Sockets are round on the outside, having accurate hexagon openings. The upper part of the socket has square faces where a wrench may be used to help turn an especially tight nut.

MOSSBERG'S OFFSET HEAVY DUTY



No. 1500 Series

No. 1529	Opening, 1/2 in.	No. 1553	Opening, 1 1/8 in
No. 1533	Opening, 9/16 in.	No. 1557	Opening, 5/8 in.
No. 1537	Opening, 5/8 in.	No. 1561	Opening, 1 1/8 in.
No. 1539	Opening, 1/2 in	No. 1563	Opening, 1 1/4 in
No. 1541	Opening, 3/4 in.	No. 1565	Opening, 1 in.
No. 1545	Opening, 1 1/8 in	No. 1569	Opening, 1 1/2 in.
No. 1549	Opening, 3/4 in	No. 1581	Opening, 1 1/4 in.
No. 1551	Opening, 5/8 in.		

All Sizes. . . . . Each, $0.56

Openings of all Wrenches shown in this column are actually 1/64 in. larger than shown.

Construction—Made of 1/2-in. Steel Bar. Length, 10 in. over all. Finish, Black Rust Proof. The case-hardened sockets are round on the outside and have on the upper part square face on which a wrench may be applied to turn an especially obstinate nut. The handle does not have the customary loop leaving an opportunity to use a piece of pipe to obtain more leverage.

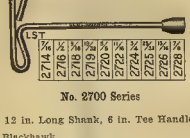
WALDEN

No. 2600 Series

6 in. Short Shank, 6 in. Tee Handle.

Walden.	Blackhawk	Each, $0.55
No. 2614	No. 2114—Opening, 1/2 in	" 55
No. 2616	No. 2116—Opening, 9/16 in	" 55
No. 2618	No. 2118—Opening, 5/8 in.	" .55
No. 2619	No. 2119—Opening, 11/16 in	" 55
No. 2620	No. 2120—Opening, 3/4 in	" 55
No. 2622	No. 2122—Opening, 13/16 in	" 55
No. 2624	No. 2124—Opening, 7/8 in	" 55
No. 2625	No. 2125—Opening, 15/16 in	" 55
No. 2626	No. 2126 Opening, 1 in.	" 55
No. 2628	No. 2128—Opening, 1 1/8 in	" .55

WALDEN



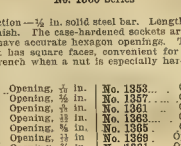
No. 2700 Series

12 in. Long Shank, 6 in. Tee Handle.

Walden	Blackhawk	Each, $0.60
No. 2714	No. 3114—Opening, 1/2 in	" 60
No. 2716	No. 3116—Opening, 9/16 in	" 60
No. 2718	No. 3118—Opening, 5/8 in	" 60
No. 2719	No. 3119—Opening, 11/16 in	" 60
No. 2720	No. 3120—Opening, 3/4 in	" .60
No. 2722	No. 3122—Opening, 13/16 in	" .60
No. 2724	No. 3124—Opening, 7/8 in	" 60
No. 2725	No. 3125—Opening, 15/16 in	" .60
No. 2726	No. 3126—Opening, 1 in	" .60
No. 2728	No. 3128—Opening, 1 1/8 in	" .60

Openings are actually 1/64 in. larger than shown.

MOSSBERG "T" HANDLE, HEAVY DUTY



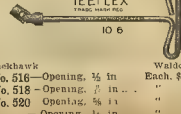
No. 1300 Series

Construction—1/2 in. solid steel bar. Length, 12 in. Black rust proof finish. The case-hardened sockets are round on the outside and have accurate hexagon openings. The upper part of the socket has square faces, convenient for the use of an additional wrench when a nut is especially hard to turn.

No. 1329	Opening, 1/2 in.	No. 1353	Opening, 1 1/8 in.
No. 1333	Opening, 9/16 in.	No. 1357	Opening, 5/8 in.
No. 1337	Opening, 5/8 in.	No. 1361	Opening, 1 1/8 in.
No. 1339	Opening, 1/2 in.	No. 1363	Opening, 1 1/4 in.
No. 1341	Opening, 3/4 in.	No. 1365	Opening, 1 in.
No. 1345	Opening, 1 1/8 in	No. 1369	Opening, 1 1/2 in.
No. 1349	Opening, 3/4 in.	No. 1381	Opening, 1 1/4 in.
No. 1351	Opening, 5/8 in		

All Sizes . . . . . Each, $0.78

WALDEN TEE FLEX. UNIVERSAL JOINT



Walden.	Blackhawk.	Walden Each.	Blackhawk.
No. 1016	No. 516—Opening, 1/2 in	$2.50	$2 75
No. 1018	No. 518 – Opening, 9/16 in	" 2 50	2 75
No. 1020	No. 520 Opening, 5/8 in	" 2.50	2.75
No. 1022	– Opening, 11/16 in	" 2.50	
No. 1024	Opening, 3/4 in	" 2 50	

SOCKET WRENCHES

WIRE HANDLE

WALDEN SPEED

No. 6000 Series

Length over all, 19¼ in. Shank, 11¼ in
Metal Tops with Cone Bearings.

Walden.	Blackhawk.		
No. 6014	No. 6114—Opening, 7/16 in	Each,	$0.88
No. 6016	No. 6116—Opening, 1/2 in	"	.88
No. 6018	No. 6118—Opening, 9/16 in	"	.88
No. 6019	No. 6119—Opening, 19/32 in	"	.88
No. 6020	No. 6120—Opening, 5/8 in	"	.88
No. 6022	No. 6122—Opening, 11/16 in	"	.88
No. 6024	No. 6124—Opening, 3/4 in	"	.88
No. 6025	No. 6125—Opening, 13/16 in	"	.88
No. 6026	No. 6126—Opening, 7/8 in	"	.88
No. 6028	No. 6128—Opening, 15/16 in	"	.88

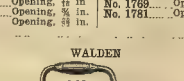
MOSSBERG "HEAVY DUTY" SPEED

No. 1700 Series

Length, 19¾ in. ½ in. solid bar. Rust-proof finish. The case-hardened sockets are round on the outside and have accurate hexagon openings. The upper part of the socket has square surfaces, convenient for the use of an additional wrench when a nut is especially hard to turn.

No. 1729	Opening, 7/16 in	No. 1753	Opening, 13/16 in.
No. 1733	Opening, 1/2 in.	No. 1757	Opening, 7/8 in.
No. 1737	Opening, 9/16 in.	No. 1761	Opening, 15/16 in.
No. 1739	Opening, 19/32 in.	No. 1763	Opening, 31/32 in.
No. 1741	Opening, 5/8 in.	No. 1765	Opening, 1 in.
No. 1745	Opening, 11/16 in.	No. 1769	Opening, 1 1/16 in.
No. 1749	Opening, 3/4 in.	No. 1761	Opening, 1 1/8 in.
No. 1751	Opening, 49/64 in.		
All Sizes			Each, $1.00

WALDEN



No. 1400 Series

For Demountable Rims.

Walden.	Blackhawk.		
No. 1420	No. 5120—Opening, 5/8 in	Each,	$1.10
No. 1422	No. 5122—Opening, 11/16 in	"	1.10
No. 1424	No. 5124—Opening, 3/4 in	"	1.10
No. 1426	No. 5126—Opening, 13/16 in	"	1.10
No. 1428	No. 5128—Opening, 7/8 in	"	1.10

The steel sockets are machine turned and broached accurately to size and so fastened to the wire that they cannot turn (no pins to shear off). The swivel handles are pressed steel. There is only one size nut on any rim, so that this solid handle tool fills all requirements (no loose socket to be misplaced). Tire changes are emergency work and dependable tools are worth all they cost.

Sizes for Demountable Rims

5/8—Kelsey.
11/16—Firestone, Fisk Dem, Goodrich.
3/4—Baker, Continental, Detroit, Stan-Weld, Goodyear, Fisk.
13/16 Stan-Weld, No. 2 Universal.
7/8—Fisk Tires.

All wrenches shown on this page have openings 1/64 in larger than indicated. See page 189 for table showing different size nuts these wrenches will fit.

MOSSBERG BRACE DEMOUNTABLE RIM

No. 360 Series

All Steel, Black, Rust Proof.

No. 361—5/8 in. Socket. Fits Kelsey Rims. ..... Each, $1.10

No. 362—11/16 in. Socket. Fits Firestone Demountable Rims. Also Old Style Fisk Demountable Rims.. ..... Each, 1.10

No. 363—3/4 in. Socket. Fits Stanweld No. 21, No. 22 Perlman, Cleveland Welding Co., Baker, Universal, Lambert, Weston Mott, Old Type No. 3 Standard, Continental Detroit, and Dorian Rims..... Each, 1.10

No. 364—13/16 in Socket. Fits Old Style No. 1 and No. 2 Standard Demountable Rims..... Each, 1.10

No. 365—7/8 in. Socket. Fits Firestone Dual and Old Style Fisk Rims..... Each, 1.10

MILLERS FALLS

The aim in making these wrenches has been to have a socket that will accurately fit the nut for which it is intended and be extra strong to resist cracking at the corners or wearing of the sides of the hexagon. These wrenches comply with such requirements. Also in accordance with their quality they are handsomely finished with nickel-plated rod, ebony enameled handles and red painted elbow of the socket. The handles are free acting with inserted brass rings and the knob handle comfortably fits the hand.

Nos.	910	911	912	913	914
Size of sweep, in.	10	10	10	10	10
Size of socket, in.	5/8	11/16	3/4	13/16	7/8
Per dozen	$16.00	16.00	16.00	16.00	16.00

One-half dozen in a box. Weight per dozen, 18½ lbs.

See description of Walden No. 1400 or Mossberg No. 360 Series for sizes for Demountable Rims.

WALDEN NUT AND BOLT SOCKET

No. 6300 Series

Walden	Blackhawk.		Walden.	Blackhawk.
No. 6316	——Opening, 1/2 in.	Each,	$2.00	$3 00
No. 6318	No. 6218—Opening, 5/8 in	"	3.00	3.00

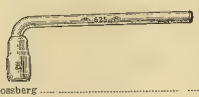
SEATTLE HARDWARE COMPANY

SOCKET WRENCHES

WIRE HANDLE

Especially for Ford Cars

"L" SOCKET



No. 625—Mossberg ....Each, $0.36

The great quantity of ⅜-in. Bolts on a Ford car demand a short, sturdy "L" shaped socket wrench.

This wrench is 7¼ in. long, offset 2 in. and the opening of the socket is ⅞ in., fitting ⅜ in. bolts.

Some of the most important places where this wrench is especially adapted are:

Carburetor Nut	Fan Adjusting Screw
Clutch Lever Nut	Lamp Bracket Nut
Crank Case Nuts	Manifold Clamp Stud Nut
Cylinder Front Cover Set Screw	Radiator Nuts
	Steering Post Bracket Nut
Cylinder Valve Cover Nuts	Timer Spring Nut
Frame Nuts	Universal Ball Cap Nut

No. 621—Mossberg. .. . . Each, $0.38

Single End. Opening, ⅔ in. Same style as No 625. Fits the cap screws on Ford cylinder.

No. 626—Mossberg . . . . .Each, $0.56

Double end. Opening both ends ⅔ in. Similar to No. 621, except that it has a socket on each end. Fits the cap screws on Ford cylinder.

SPEED BRACE SOCKET

No. 613—Mossberg. Speed Wrench.....Each, $0.73

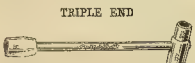
Construction—Made of ⅛ in. steel rod. Length over all, 14¼ in. Finish, black rust proof. Opening, 33/64 in.

Fits lower crank case nuts, differential drive gear screws, dash bracket bolts and nuts, steering post bolts and nuts, horn bolts and nuts, coil box nuts, rear axle housing bolts and nuts on Ford cars.

No. 4116 Black Hawk or
No. 6064—Walden. Speed Wrench . . .Each, $0.88

Special Short Speed Wrench, 12⅛ in. over all, ⅛ in. socket, particularly for use on crank case lower cover. Also used on axle housing, differential drive gear, front and rear fenders and muffler rods on Ford cars. This tool is generally useful for all ⅞ in. A. L. A. M. cap screws on all cars.

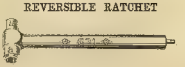
TRIPLE END



No. 630— Mossberg. Triple End.....Each, $0 64

Fits cylinder head nuts and the nuts on the rear axle housing of Ford cars.

REVERSIBLE RATCHET



No. 631—Mossberg. Reversible Ratchet.....Each, $3.00

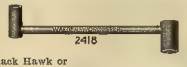
Fits cylinder head screws and rear axle housing nuts The ratchet feature makes this a very useful wrench.

No. 4320—Black Hawk or
No. 1620—Walden. Tomahawk. . . .. Each, $0 70

Triple Socket Wrench. Socket sizes ⅝ in and ½ in. This is the original triple socket wrench. Designed for use on cylinder head bolts, rear axle housing nuts, water intake and outlet cap screws, rear axle nuts, crank case lower cover, drive shaft housing stud nuts, differential drive gear cap screws and controller shaft bracket nuts.

No. 4330—Black Hawk or
No. 5660—Walden .....Each, $1.20

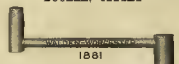
Triple Socket Offset Wrench. Sizes ⅛, ⅞ and ⅞ in. Designed for heavy duty. Used on drive shaft pinion, front spring clip, hub bolt and nut, radius rod, rear hub lock, rear spring clip spindle arm, and body bolts on Ford cars.



No. 4218—Black Hawk or
No. 2418—Walden .....Each, $0.80

Double Socket Offset Wrench Socket sizes ⅞ and ¾ in., handle 11 in. Used on brake shoe support, connecting rod clamp, crank shaft (main) bearing, fan bracket spindle, steering gear post, steering post bracket, spindle connecting rod and front radius rod of Ford cars. No. 1622 also fits main bearing bolt heads.

DOUBLE, OFFSET

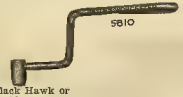


No. 1881—Walden. (Replaces old No. 1623).... . Each, $1.10

Length over all, 9 in. Socket sizes ⅞ in. hexagon and ⅞ in. square. Fits crank shaft bolt and nut, piston pin locking screw, running board bolt nut, running board to fender bolt nut.

No. 4122—Black Hawk or
No. 3822—Walden .....Each, $0.66

Socket size ½ in. hexagon. Used on Ford fly wheel cap screws, heretofore considered an impossible place for a socket wrench. An ugly place made accessible.



No. 4120—Black Hawk or
No. 5810—Walden .....Each, $0.55

Connecting Rod Wrench with ⅝ in. socket. Fits all connecting rod nuts of Ford cars, including the fourth connection. This is the original design, the first wrench made to reach the fourth connection without removing the engine from the car. Right angle bends and loop handle.

No. 623—Mossberg.....Each, $0.46

Similar in design to the Walden No. 5810, with the exception that it does not have the loop handle. Case hardened, mottled finish.

All wrenches shown on this page have openings 1/64 in. larger than indicated. See page 189 for table showing different size nuts these wrenches will fit.

ICE CREAM FREEZERS

DOUBLE ACTION

The Can and Dasher Revolve in Opposite Directions, Automatic Twin Scrapers.

ENCLOSED GEARING

Extra Heavy, XXXX Tin Can, with **Drawn Steel Bottom.** They will not Leak, and the Bottom will not Break or Fall Out of the Body of Can; Not Liable to Injury, as are Tin Plate or Cast Iron Bottoms. The Top of Can is Strongly Wired and Turned Over, while the Lower Part is Made to Fit Over and Under the Drawn Steel Bottom by Machinery The **Gears are Completely Covered,** so that Neither Ice or Salt can Get in Cogs, Nor the Fingers be Accidentally Caught in Them The **Hinged Cover** Can be Raised Out of the Way Without Removing it from the Tub. The **Locking Device** is Controlled by a Single Cam, is Simpler and Easier to Operate than Any Other, and Locks the Cover Immovably. All Inside Parts Coming in Contact with the Cream are **Heavily Tinned;** All Outside Parts are Smoothly and **Heavily Galvanized.** The Ice Space is Arranged to Use the Least Possible Amount of Ice to Freeze in the Least Possible Time Selected White Pine Tubs, with Electrically Welded Galvanized Steel Wire Hoops, which will Not Fall Off Nor Break.

Nos.	1G	2G	3G	4G	6G	8G	10G	12G	14G
Quarts	1	2	3	4	6	8	10	12	14
Wt., Lbs	7	10	11	14	18	24	30	31	35
Each	$3.25	3.75	4.50	5.50	7.00	9.00	12.00	13.50	15.00
	$4.90	5.65	6.75	8.25	10.50	13.50	18.00	20.25	22.50

Loose Stock, wrapped in heavy paper.

"BLIZZARD"

Single Action Can Revolves while the Dasher is Held in the Cross Bar or Top Plate The Cross Bar is Not Hinged, but Similar to that of the Gem Freezer, and has the Same Fastening. The Dasher is Same as that in the Gem Freezer and has Automatic Twin Scrapers White Cedar Pails with Electric Welded Wire Hoops. All Inside Parts Tinned, Outside Parts Galvanized.

Nos.	1B	2B	3B	4B	6B	8B	10B	12B	14B
Quarts	1	2	3	4	6	8	10	12	14
Wt., Lbs	6	9	10	13	16	20	27	29	33
Each	$3.25	3.75	4.50	5.50	7.00	9.00	12.00	13.50	15.00
	$4.55	5.30	6.30	7.65	9.70	12.30	16.85	18.70	20.85

Wrapped in paper.

GEM

TOY OR BABY FREEZERS

For Use in Sick Room and for Individual Service.

No. GT—Capacity, 1 Pint. Weight, Each, Per Dozen
About 2 Lbs..... $20.00 $45.00

LIGHTNING

No. LT—Capacity, 1 Pint. Weight, Each, Per Dozen
About 2 Lbs. $20.00 $45.00

"LIGHTNING"

Wheel Dasher., Quadruple Motion. Automatic Twin Scrapers. Top Plate Swings Up as if Hinged to Pail, but is Detachable. White Cedar Pails with Electric Welded Wire Hoops. All Inside Parts Tinned. Outside Parts Galvanised

Nos.	10	20	30	40	60	80	100	120	140
Quarts	1	2	3	4	6	8	10	12	14
Wt. Lbs	7	10	11	14	18	24	31	34	43
Each	$3 25	3.75	4.50	5.50	7.00	9.00	12.00	13.50	15.00
	$4.90	5.65	6.75	8.25	10.50	13.50	18.00	20.25	22.50

Wrapped in paper.

AMERICAN TWIN

Can

Dasher

Freezes Two Flavors of Ice Cream or an Ice or Sherbert and Ice Cream at One and the Same Time, in One Freezer. The Can is Divided in Two Parts by a Vertical Partition. One Flavor is Placed in One, the Other in Opposite Side of Can, in Each of which the Scrapers, Etc., Operate The Can Cannot be Turned as in Old Style Freezers, Because of the Partition. It is Therefore Swung to and fro by a Rocking Motion of the Crank Cedar Pails with Electric Welded Wire Hoops, All Inside Parts Tinned, Outside Parts Galvanized

Nos.	AT2	AT3	AT4	AT6	AT8	AT10	AT12	AT15	AT20
Qts	2	3	4	6	8	10	12	15	20
Each	$3 75	4.50	5.50	7.00	9.00	12.00	13.50	17.00	23 00
	$6.80	8.10	9.90	12.60	16.20	21.60	24.30	30.60	41.40

Wrapped in heavy paper.

ICE CREAM FREEZERS

STEEL FRAME

Virginia White Cedar Pails. Electric Welded Wire Hoops. Narrow Model Cans. Hidden Gears. Frames, Locks and Catches Unbreakable Stamped Steel.

SNOW BALL

Three Motions

A Four-Minute Wonder

Nos.	SB1	SB2	SB3
Quarts	1	2	3
Wt, Lbs	9	10	11
Each	$3 33	3 85	4 63
	$5.50	6.40	9.55

Nos.	SB4	SB6	SB8
Quarts	4	6	8
Wt Lbs.	15	17	25
Each	$5 64	7 17	9 26
	$9 40	11.95	15.40

Nos.	SB10	SB12	SB16
Quarts	10	12	16
Wt , Lbs	29	46	50
Each .	$12 45	14 78	17 56
	$20.60	24.65	29.35

DOUBLE QUICK

Two Motions

Moderate Priced and Very Reliable

Nos.	D1	D2	D3	D4	D6	D8	D10	D12	D16
Quarts	1	2	3	4	6	8	10	12	16
Wt , Lbs.	9	10	11	15	17	25	29	46	50
Each	$3 00	3.45	4.20	5.06	6.47	8.27	11 09	12 46	16 14
	$5 00	5.75	6.80	8.40	11.80	13.80	18.50	20.70	29.25

FROST KING

Single Motion

Simple, Durable and Popular.

Nos.	FK1	FK2	FK3	FK4	FK6	FK8	FK10	FK12	FK16
Quarts	1	2	3	4	6	8	10	12	16
Wt Lbs.	9	10	11	15	17	25	29	46	50
Each	$2.72	3 17	3 81	4 63	5.91	7.62	10.15	11.41	15.99
	$4.55	5.30	6.35	7.70	9.85	12.70	16.90	19.00	26.65

Wrapped in paper.

FLY WHEELS

For Snow Ball, Double Quick, and Frost King Freezers.

For Freezers Size, Qts.	2	3	4	6	8	10	12	16
Each	$1 40	1.40	1.40	1 75	1 95	2 75	4 20	4 20
	$2.35	2.35	2.35	2.90	3.25	4.60	7.00	7.00

Loose.

THE WHITE MOUNTAIN

TRIPLE MOTION, COVERED GEARS

The White Mountain is Constructed of Material that Time and Innumerable Experiments has Proven the Best for Freezer Construction, Making It of Uniform Strength in Every Part. While Each Part Contributes to the Strength of the Whole and Hoops Make the Machine Exceptionally Durable, Strong Waterproof Second Growth White Pine Tub. Bound with Heavy Galvanized Iron Hoops. Gearing Completely Covered. Cans Full Size and Made of the Best Tin Plate. Beaters Malleable Iron Tinned. All Castings Attached to the Tub Well Galvanized to Prevent Rusting. Celebrated Duplex Dasher, with Double Self-adjusting Wood Scraping Bars. Triple Motion.

Nos.	M2	M3	M4	M6	M8	M10	M12	M16
Quarts	2	3	4	6	8	10	12	16
Ht of Tubs, Ins	10½	13½	14½	15½	16½	17½	19	19½
Wt , Each, Ab Lbs.	12	15	16	25	28	30	49	54
Each .	$5 65	6.75	8 25	10.45	13.50	18 00	21 55	2.. 60
	$8.80	9.10	9.90	12.60	15.80	21.60	25.90	31.00

Wrapped in heavy paper

ARCTIC

DOUBLE MOTION

Seasoned White Cedar Tubs. Charcoal Tin Cans. All Inner Parts Heavily Tinned. Outside Parts Galvanized. Malleable Iron. Can Revolves Right to Left. Beater Revolves Left to Right.

Nos.	31	32	33	34	36
Quarts.	1	2	3	4	6
Wt., Ea., Ab. Lbs.	5½	11	13	14	18
Each.	$4 00	4 60	5 55	6.80	8 60
	$4.80	5.35	6.70	8.20	10.30

Nos.	38	39	40	41	42
Quarts	8	10	12	15	20
Wt., Ea., Ab. Lbs	22	28	34	39	45
Each	$11 10	14 80	16 65	23 30	30 00
	$13.40	17.80	20.00	27.95	36.00

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

ICE CREAM FREEZERS

Cut Shows With Fly Wheel.

The Construction is Similar to the Gem, but Heavier and Stronger. The Gear and Shaft are Connected by Clutches which Engage or Disengage by Simply Raising and Lowering the Cross Bar. The Fly Wheel or Pulley Remains Stationary at the Side of the Tub. The Cross Bar is Made to Swing Up Out of the Way to Take Out Cream or can be Entirely Removed. The Cans are Made of **Heavy Tinned Steel** with Tinned Malleable Iron Bottom. The Tub is Made of Selected White Pine with Electrically Welded Steel Wire Hoops, which will Not Drop Off or Break.

Cut Shows With Power Pulley.

"CROWN" DOUBLE ACTION

WITH FLY WHEEL
Interchanges with Crank

		Each
No. 18W— 8 Quarts	$16.00	$24.00
No. 110W —10 Quarts	18.00	27.00
No. 114W—14 Quarts	22.00	33.00
No. 118W—18 Quarts	28.00	42.00
No. 124W—24 Quarts	34.00	51.00
No. 132W —32 Quarts	40.00	60.00

WITH CRANK
(Not Illustrated)
Extra Heavy Construction

		Each
No. 18C— 8 Quarts	$12.00	$18.00
No. 110C 10 Quarts	14.00	21.00
No. 114C—14 Quarts	17.00	25.50
No. 118C—18 Quarts	22.00	33.00
No. 124C—24 Quarts	27.00	40.50

Loose.

WITH POWER PULLEY
With Extra Strong Shaft Bearings

		Each
No. 114P—14 Quarts	$33.00	$49.50
No. 118P —18 Quarts	39.00	58.50
No. 124P 24 Quarts	48.00	72.00
No. 132P—32 Quarts	54.00	81.00

Cut Shows With Crank

The Construction is Similar to the Lightning, but Heavier and Stronger. For Use of Confectioners, Ice Cream Parlors, Soda Founts, Hotels and Restaurants, and Boarding Houses. The Tub is Made of Selected White Cedar, with Cans Made of **Heavy Tinned Steel** with Drawn Steel Bottom. The Top is Made to Swing Up to Take Out Can and May be Entirely Removed from Freezer. The Gear and Fly Wheel Shafts are Connected, which Engage or Disengage by Simply Raising and Lowering the Top Plate. The Fly Wheel Remains Stationary on Side of Parts.

Cut Shows With Power Pulley

JUMBO LIGHTNING

WITH CRANK

	Each
No. 020C—20 Quarts	$23.00 $30.70

WITH FLY WHEEL
(Not Illustrated)

		Each
No. 014 14 Quarts	$22.00	$29.35
No. 020—20 Quarts	30.00	40.00

Loose

WITH POWER PULLEY

	Each
No. 014P—14 Quarts	$35.00 $46.75
No. 020P —20 Quarts	43.00 57.35

FLY WHEELS

For Freezers	Diameter inches	Shaft, inches	Weigh pounds	Each
2-3-4—All Styles	12	$\frac{7}{16}$	6	$2.25
6—All Styles	13	$\frac{1}{2}$	8¼	3.40
8—All Styles	14	$\frac{1}{2}$	10½	4.15
10-12—All Styles	15	$\frac{9}{16}$	15	5.25
14—Gem and Blizzard	18	$\frac{9}{16}$	21½	7.50
14—Lightning	18	$\frac{5}{8}$	21½	7.50

Loose.

CEDAR PACKING TUBS

These Tubs are Made of the Best Virginia White Cedar, with Staves Tongued and Grooved, Bound with Heavy Galvanized Iron Hoops, and are Well Painted. The 1- to 8-quart Sizes Have Wrought Iron Bails; the Larger Sizes Made with Heavy Galvanized Side Handles. The Following are Inside Dimensions of the Various Sizes:

Nos	Capacity Quarts	Diameter Top Inches	Diameter Bottom, Inches	Inches	Each
1T	1	7	6¾	9	$2.00
2T	2	8	6¾	12½	2.40
3T	3	8¾	7¼	15	2.90
4T	4	9¾	8	16	4.00
6T	6	10½	9	17½	4.70
8T	8	11¾	10	19	5.00
10T	10	11¾	10	20	6.60
12T	12	12½	10¾	21½	7.50
16T	16	13¾	11¼	23½	9.10
20T	20	14½	12¼	25½	11.00
25T	25	15½	13¼	26½	13.00
30T	30	16¼	14¼	27	14.80
40T	40	18½	16¼	29	16.50

Loose.

PACKING CANS

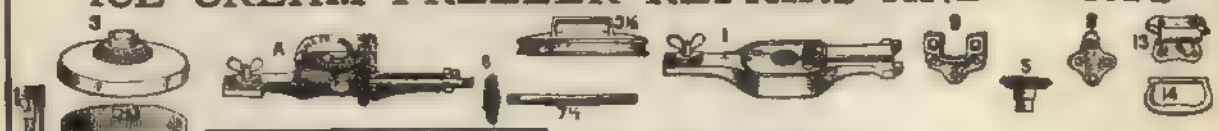
"STEEL CLAD"

Are the Most Durable and Serviceable Cans Made. They are Made of Steel; the 1 to 12-quart Sizes have Bodies of No. 20 Gauge, and Bottoms and Covers of No. 18 Gauge Steel; the 16- to 40-quart Sizes Have Bodies of No. 18 Gauge, and Bottoms and Covers of No. 16 Gauge Steel. The Bottoms and Covers are Stamped Up from One Piece of Steel. The Body is Made of One Piece of Sheet Steel, which is Cut, Rolled, Riveted and the Welded Hoop Driven On. Then the Entire Can is Tinned in Molten Pure Block Tin. The Cans are Smooth and Easily Cleaned, Have No Raw Edges Exposed to Action of Salt Water Nor Crevices to Collect Dirt. They are Thoroughly Tested to Insure Being Perfectly Tight.

Nos	Qts.	Inches	Each
1	1	4 x 5½	$2.50
2	2	5 x 6¾	2.70
3	3	5 x 10	3.00
4	4	5½ x 10⅞	3.40
6	6	6½ x 12½	4.00
8	8	6¾ x 13⅞	4.70
10	10	6⅞ x 17	5.10
12	12	7¼ x 18¼	5.50
16	16	8¼ x 18¼	6.70
20	20	9 x 19½	7.30
25	25	10 x 19½	8.00
30	30	11 x 19½	9.80
40	40	11½ x 23¾	12.00

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

ICE CREAM FREEZER REPAIRS AND PARTS



Prices on Request

FOR GEM FREEZER

The Parts as Illustrated are for Present Style Freezer. Old Style Dashers Have One Scraper Only but the Present Style with Two Scrapers will Fit in Their Place, but when Scraper or Hinges Only for Single Scraper Dashers are Required it Should be Plainly Stated in Order In the Old Style Cross-bar (Fig A or 1) which was Made in One Piece Instead of Separate Cap Shown in Illustration (Fig 1½ the Cross-bar (Fig. A and 1), Upper Gear Fig 5, and Driving Gear (Fig. 6) are not the Same as Present Styles If the Number of These Figures on Each of These Parts are Given in Ordering, the Parts can be Duplicated Without Mistake.

No. of Figure in Illustration	Name of Part.	Quarts. 1	2	3	4	6	8	10	12	14
	Pail Only, No Fittings Except Handle to Carry It.	$1 40	$1 55	$1 80	$2 20	$2 80	$3 60	$4 80	$5 40	$6 00
	Pail, with Handle and Fittings, Nos 8, 9 and 10	1 60	1 75	2 00	2 50	3 15	4 10	5 40	6 10	6 75
A	Cross-bar, with All Parts Attached	1 00	1 15	1 35	1 65	2 10	2 70	3 30	3 90	4 50
1	Cross-bar Only, No Attached Parts	65	75	90	1 10	1 40	1 80	2 40	2 70	3 00
1½	Cap Only, for Cross-bar, with Screws	35	40	45	55	70	90	1 20	1 35	1 50
2	Dasher, Including Scrapers and Hinges	50	60	70	85	1 05	1 35	1 80	2 05	2 25
3	Lid or Can-cover—Iron, as Used in Freezer	50	60	70	85	1 05	1 35	1 80	2 05	2 25
3½	Lid or Can-cover—Tin, as Used for Packing-can	50	60	70	85	1 05	1 35	1 80	2 05	2 25
4	Can Only	85	95	1 15	1 40	1 75	2 25	3 00	3 40	3 75
5	Upper Gear (in Cap of Cross-bar)	20	25	30	35	45	60	75	80	90
6	Driving Gear (at End of Crank-shaft)	20	20	20	20	25	30	35	40	45
7	Crank	20	20	25	25	30	40	50	55	60
7½	Crank-shaft	20	20	20	20	25	25	30	30	30
8	Hook Screwed to Top of Pail, Opposite Side to Crank	20	20	20	20	20	25	25	25	25
8½	Knob or Catch (Engaging in Hook), Including Rivet	20	20	20	20	20	20	20	20	20
9	Side-piece, Screwed to Top of Pail, Side Next Crank	20	20	20	25	30	30	35	35	35
10	Centerpiece, Screwed to Bottom of Pail, Inside	20	20	20	20	20	20	20	20	20
11½	Wood Scraper, with Hinges	20	20	20	20	20	30	30	30	30
11¾	Upper Hinge for Scraper	10	10	10	10	10	15	15	15	15
11½	Lower Hinge for Scraper	10	10	10	10	10	15	15	15	15
12	Carrier for Can, Soldered to Inside at Top of Can	10	10	10	10	10	10	10	10	10
13	Plate for Side Handle of Pail							20	20	20
14	Handle for Side Handle of Pail							20	20	20

Loose

FOR BLIZZARD FREEZER

The Parts as Illustrated are for Present Style Freezer Old Style Dashers Have One Scraper Only, but the Present Style with Two Scrapers will Fit in Their Place, but when Scraper or Hinges Only for Single Scraper Dashers are Required, it Should be Plainly Stated in Order

No. of Figure in Illustration	Name of Part	Quarts 1	2	3	4	6	8	10	12	14
	Pail Only No Fittings, Except Handle to Carry It	$1 40	$1 55	$1 80	$2.20	$2 80	$3 60	$4 80	$5 40	$6 00
	Pail, with Handle and Fittings Nos 8, 9 and 10	1 60	1.75	2.00	2.50	3 15	4 10	5 40	6 10	6 75
A	Cross-bar or Top-plate, with All Parts Attached	1.00	1.15	1.35	1.65	2 10	2.70	3 30	3 90	4.50
1	Cross-bar or Top-plate Only No Attached Parts	.65	.75	.90	1 10	1 40	1 80	2 40	2 70	3.00
2	Dasher, Including Scrapers and Hinges	.50	.60	.70	.85	1 05	1 35	1 80	2.05	2 25
3	Lid or Can-cover—Iron, as Used in Freezer	.50	.60	.70	.85	1 05	1 35	1.80	2 05	2.25
3½	Lid or Can-cover—Tin, as Used for Packing-can	.50	.60	70	.85	1.05	1 35	1.80	2.05	2.25
4	Can Only	.85	95	1 15	1.40	1 75	2.25	3.00	3.40	3.75
6	Driving Gear (at End of Crank-shaft)	.20	20	20	20	25	.30	.35	.40	45
7	Crank	20	2	25	25	30	.40	.50	.55	.60
7½	Crank-shaft	20	20	20	20	25	25	.30	30	.30
8	Hook Screwed to Top of Pail Opposite Side to Crank	.20	20	20	20	20	25	.25	25	.25
8½	Knob or Catch (Engaging Hook) Including Rivet	20	20	20	20	20	20	.20	.20	.20
9	Sidepiece, Screwed to Top of Pail, Side Next Crank	20	.20	20	25	.30	.30	.35	.35	.35
10	Centerpiece, Screwed to Bottom of Pail, Inside	20	.20	20	20	.20	20	.20	.20	.20
11½	Wood Scraper, with Hinges	20	20	20	20	20	30	.30	.30	.30
11¾	Upper Hinge for Scraper	10	10	10	10	.10	15	.15	.15	.15
11½	Lower Hinge for Scraper	10	.10	.10	.10	.10	.15	.15	.15	.15
12	Carrier for Can, Soldered to Inside at Top of Can	.10	.10	.10	.10	.10	.10	.10	.10	.10
13	Plate for Side Handle of Pail							.20	.20	.20
14	Handle for Side Handle of Pail							.20	20	.20

Loose

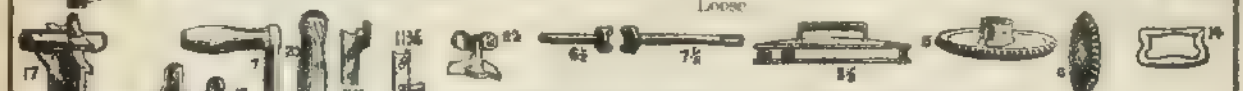
ICE CREAM FREEZER REPAIRS AND PARTS

FOR LIGHTNING FREEZERS Prices on Request

The Parts as Illustrated are for Present Style Freezer. Old Style Dashers have One Scraper Only, but the Present Style with Two Scrapers will Fit in Place of Such Having Letter L or N on Casting, but when Scraper or Hinges Only for Single Scraper Dashers are Required, it Should be Plainly Stated on Order. Repairs for Lightning Freezers Marked with Letters A, B, C, D, E and Top Plates Marked L Cannot be Furnished, as All These Patterns were Destroyed in Fire of Shepard Hardware Company Prior to Our Acquiring Their Freezer Business in 1892.

No. of Figure in Illustration	Name of Part	Quarts 1	2	3	4	6	8	10	12	14
	Pail Only, No Fittings, Except Handle to Carry It	$1.40	$1.55	$1.80	$2.20	$2.80	$3.60	$4.80	$5.40	$6.00
	Pail with Handle and Fittings, Nos. 800, 900 & 1000	1.60	1.75	2.00	2.50	3.15	4.10	5.40	6.10	6.75
A	Top-plate or Cross-bar, with All Parts Attached	1.00	1.15	1.35	1.65	2.10	2.70	3.30	3.90	4.50
100	Top-plate or Cross-bar Casting Only, No Parts	.65	.75	.90	1.10	1.40	1.80	2.40	2.70	3.00
200	Dasher, Complete with Scrapers and Wheel Dasher	.65	.75	.90	1.10	1.40	1.80	2.40	2.70	3.00
275	Dasher-holder and Screws to go Inside Top-plate	.20	.20	.20	.20	.25	.30	.35	.40	.45
300	Lid or Can-cover, Iron as Used in Freezer	.50	.60	.70	.85	1.05	1.35	1.80	2.05	2.25
350	Lid or Can-cover, Tin as Used for Packing-can	.50	.60	.70	.85	1.05	1.35	1.80	2.05	2.25
400	Can Only	.85	.95	1.15	1.40	1.75	2.25	3.00	3.40	3.75
600	Driving Gear, at End of Crank-shaft	.20	.20	.20	.20	.25	.30	.35	.40	.45
700	Crank	.20	.20	.25	.25	.30	.40	.50	.55	.60
750	Crank-shaft	.20	.20	.20	.20	.25	.25	.30	.30	.30
800	Lock-plate, Screwed to Top of Pail, Side Next Crank	.20	.20	.20	.20	.25	.30	.35	.40	.45
900	Hinge-ear Screwed to Top of Pail, Opposite Crank	.20	.20	.20	.20	.25	.30	.35	.40	.45
1000	Centerpiece, Screwed to Bottom of Pail, Sup'tg Can	.20	.20	.20	.20	.20	.20	.20	.20	.20
1120	Wood Scraper, Including Upper and Lower Hinge	.20	.20	.20	.20	.20	.30	.30	.30	.30
1140	Upper Scraper-lug or Hinge	.10	.10	.10	.10	.10	.15	.15	.15	.15
1160	Lower Scraper-lug or Hinge	.10	.10	.10	.10	.10	.15	.15	.15	.15
1200	Carrier for Can, Soldered to Inside at Top of Can	.10	.10	.10	.10	.10	.10	.10	.10	.10
1300	Plate for Side Handle of Pail							.20	.20	.20
1400	Handle for Side Handle of Pail							.20	.20	.20

Loose



FOR DOUBLE ACTION CROWN FREEZERS

The Parts Illustrated are for Present Style Freezer. Old Style Dashers Have One Scraper Only, but the Present Style with Two Scrapers will Fit in Their Place, but when Scraper or Hinges for Single Scraper Dashers are Required, it Should be Plainly Stated in Order.

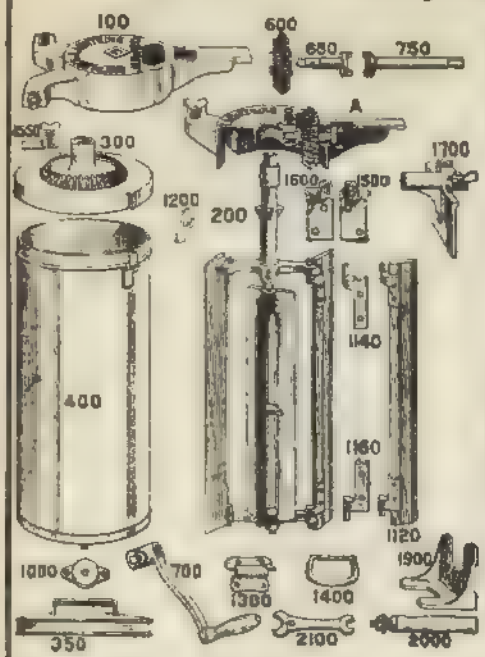
No. of Figure in Illustration	Name of Part	Quarts 8	10	14	18	24	32
	Pail Only, No Parts, Except Handles to Carry It	$5.00	$6.00	$7.00	$9.00	$11.00	$13.50
	Pail, with Handles and Fittings, Nos. 10, 15, 16 and 17	5.75	6.75	8.00	10.00	12.50	15.00
A	Cross-bar or Top-plate, with All Parts Attached	3.60	4.20	5.10	6.80	8.10	9.60
1	Cross-bar or Top-plate Only, without Any Attached Parts	2.40	2.80	3.40	4.40	5.40	6.40
2	Dasher Complete, Including Scrapers and Hinges	1.80	2.10	2.55	3.30	4.05	4.80
3	Lid or Can-cover, Iron, as Used in Freezer	1.35	1.80	2.25	2.75	3.35	4.00
3½	Lid or Can-cover, Tin, as Used in Packing-can	1.35	1.80	2.25	2.75	3.35	4.00
4	Can Only	3.00	3.50	4.25	5.50	6.75	8.00
5	Upper Gear, on Outside Top of Cross-bar	.90	.90	.90	1.40	1.40	1.40
6	Driving Gear in Cross-bar at End of Clutch-shaft	.65	.65	.65	.80	.80	.80
6½	Clutch-shaft, for Driving Gear	.65	.65	.65	.80	.80	.80
7	Crank	.50	.60	.70	.90	1.10	
7½	Crank or Fly-wheel Shaft	.65	.65	.65	.80	.80	.80
8½	Knob or Catch, to Hold Down Cross-bar, Including Rivet	.20	.20	.20	.20	.20	.20
10	Centerpiece, Screwed to Bottom of Pail, Supporting Can	.25	.25	.25	.25	.25	.25
11½	Wood Scraper, with Hinges	.30	.30	.30	.40	.40	.40
11½	and 11¾ Upper or Lower Hinges for Scraper, Per Pair	.15	.15	.15	.20	.20	.20
12	Carrier for Can, Soldered to Outside Top of Can	.15	.15	.15	.20	.20	.20
13	Plate for Side Handle on Pail	.20	.20	.20	.25	.25	.25
14	Handle for Side Handle on Pail	.20	.20	.20	.25	.25	.25
15	Pivot, Right-hand, for Bolt in Cross-bar to Swing in	.20	.20	.20	.25	.25	.25
15½	Bolt and Screw, Supporting Cross-bar in Right-hand Pivot	.20	.20	.20	.25	.25	.25
16	Pivot, Left-hand, for Pin on Cross-bar to Swing in	.20	.20	.20	.25	.25	.25
17	Bearing for Crank or Fly-wheel Shaft, Including Bolts	.75	.75	.75	1.00	1.00	1.00
18	Socket-shaft, Holding Upper Gear to Cross-bar	.50	.50	.50	.65	.65	.65
19	Support for Pail of Fly-wheel Freezer				.75	.75	.75
20	Handle and Bolt for Fly-wheel	.40	.40	.40	.40	.40	.40
21	Wrench for Fly-wheel, Tank, etc.	.40	.40	.40	.40	.40	.40
	Fly-wheel Only	5.00	5.00	5.00	8.00	8.00	12.00

Loose.

ICE CREAM FREEZER REPAIRS AND PARTS

FOR JUMBO LIGHTNING FREEZERS

Prices on Request

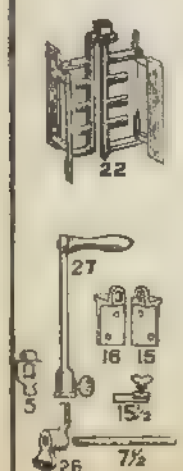


The Parts as Illustrated are for Present Style Freezer. Old Style Dashers Have One Scraper Only, but the Present Style with Two Scrapers will Fit in Place of Such Having Letter L or N on Casting, but when Scraper or Hinges Only for Single Scraper Dashers are Required, it Should be Plainly Stated on Order

No. of Figure in Illustration	Name of Part	Quarts 14	Quarts 20
	Pail Only. No Parts Except Handle to Carry It	$7 00	$9 50
	Pail, with Handles and Fittings. Nos. 1000, 1500, 1600, 1700	8.00	10.50
A	Cross-bar or Top-plate with All Parts Attached	5 10	7.00
100	Cross-bar or Top-plate Only. Without Any Attached Parts	3 40	4.60
200	Dasher, Complete, with Scraper and Wheel Dasher	3 40	4 60
300	Lid or Can-cover, Iron, as Used in Freezer	2 25	3.50
350	Lid or Can-cover, Tin, as Used for Packing-can	2 25	3 50
400	Can Only	3 75	5 75
600	Driving Gear (at End of Clutch-shaft)	.65	80
650	Clutch-shaft, for Driving Gear	.65	80
700	Crank		90
750	Crank or Fly-wheel Shaft	.65	80
1000	Centre-piece, Screwed to Bottom of Pail, Supporting Can	.25	25
1120	Wood Scraper, Including Upper and Lower Scraper-Lugs	.30	40
1140	Upper Scraper-lug or Hinge	.15	.20
1160	Lower Scraper-lug or Hinge	.15	20
1200	Carrier for Can, Sold not to Outside Top of Can	.15	20
1300	Plate for Side Handle on Pail	20	.25
1400	Handle for Side Handle on Pail	20	25
1500	Pivot, Right-hand, for Bolt in Cross-bar to Swing in	20	25
1550	Bolt and Screw, Supporting Cross-bar in Right-hand Pivot	20	25
1600	Pivot, Left-hand, for Pin on Cross-bar to Swing in	20	25
1700	Bearing for Crank or Fly-wheel Shaft, with Bolts	75	1 00
1900	Support for Pail or Fly-wheel Freezer		.75
2000	Handle and Bolt for Fly-wheel	40	40
2 00	Wrench for Screw or Fly-wheel Shaft, etc	.40	40
	Fly-wheel Only	5.00	8 00

FOR AMERICAN TWIN FREEZER

No. of Figure in Illustration	Name of Part	Quarts 2	3	4	6	8	10	12	15	20
	Pail Only, No Fittings Except Handle to Carry It	$ 75	$ 91	$1 12	$ 44	$1 92	$2 83	$3 64	$4 70	$5.98
	Pail, with Handle and Fittings Attached	91	1 07	1 34	1 71	2 30	3.20	4.27	5 34	6.67
A	Top-plate or Cross-bar, with All Parts Attached	54	64	75	91	1 28	1 71	2 08	2 40	3 20
21	Top-plate or Cross-bar Casting Only, No Parts	43	48	59	75	96	1 28	1 55	1 87	2.35
22	Dasher, Complete with Scrapers	38	48	64	.80	1 18	1 39	1 60	2 06	2 40
4	Can Only	59	.75	91	1 12	1 44	1 92	2 51	3 20	4.43
23	Lid or Can-cover	32	38	48	64	80	96	1 07	1 18	1.34
24	Fork, to Hold Gear Operating Can	06	06	06	06	06	06	06	11	.11
25	Gear, Operating Can	11	11	11	16	16	19	16	12	32
26	Gear, Operated by Crank	11	11	11	16	16	16	16	32	32
7½	Shaft for Gear, Operated by Crank	11	11	.11	11	16	16	16	16	.16
27	Crank, 2-12 qt. Lever and Socket, 15-20 qt	16	16	.22	.22	27	27	27	54	.54
28	Lock-plate, Top of Pail for Catch	.11	11	.11	11	16	16	16	43	.43
19	Hinge-ear, Top of Pail	11	11	11	11	.16	.16	.16		
15	Pivot, Right-hand, to Support Bolt in Cross-bar.								16	.16
16	Pivot, Left-hand, to Support Bolt in Cross-bar.								16	16
15½	Bolt and Screw, in Cross-bar for Pivot								11	.11
10	Centrepiece, Screwed to Bottom of Pail, Inside	06	.06	.06	.06	11	.11	11	11	.11
11	Wood Scrapers, All Alike, Each	06	06	06	06	06	06	06	06	.06
11½	Hinges for Scrapers, All Alike, Each	06	06	06	06	06	06	06	06	.06
13	Plate for Side Handles of Pail					11	.11	11	16	.16
14	Handle for Side Handle of Pail					11	.11	11	16	16



In Ordering Parts, be Particular to Give Name and Size of Freezer, Name of Part Wanted, Corresponding to Illustration, and NUMBER AND LETTER ON BROKEN PART.

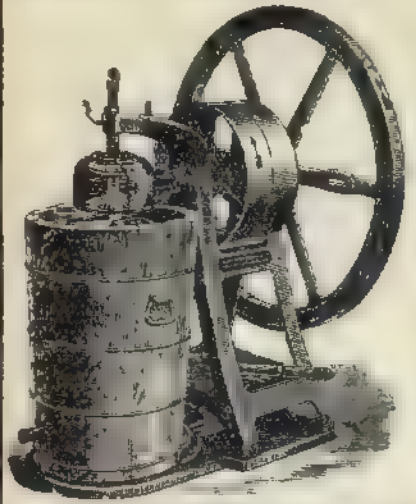
Loose

MACHINE ICE CREAM FREEZERS

NOTE.—These Machine Freezers can be Furnished with Copper Cans when Specified at an Advance in Price

"IMPROVED PHILADELPHIA" SEAMAN

40 QUART



The Frame is Made in One Casting Being in One Solid Casting, the Frame is Much Stronger and Stiffer Less Liable to Breakage or Getting Out of Order The Bearings for Shaft are Bored Out Correctly The Shafts are Steel and Accurately Fitted to Run True in Bearings The Pulleys are Placed in Middle to Relieve Undue Strain on Bearings The Teeth in Gearing are Made of Scientifically Correct Shape to Run Smoothly, of Wide Face to Secure Extra Strength Both the Pulleys and Gearing are Designed to Secure Ample Power to Drive the Machine Without Undue Strain and Avoid Any Risk of Breaking or Stoppage of Machine During Operation. The Gearing is Completely Covered to Prevent Fingers Being Caught and Crushed, and Protects the Gears from Ice, Salt and Dirt The Can is Made of No 18 Sheet Steel Riveted in Seam, with Heavy Malleable Iron Bottom, and is Heavily Coated with Pure Block Tin. The Top of Can is Reinforced with Wrought Iron Band The Tub is Made Extra Heavy, of Selected Virginia White Cedar, with 1¾-inch Thick Staves Tongued and Grooved into Each Other, and Held Together with Electric welded Wire Hoops, which are Much Stronger Than Ordinary Flat Hoops, and Guaranteed Not to Fall Off. The Tubs are Painted Both Inside and Outside. The Body of Dasher or Bearer is of Malleable Iron Heavily Coated with Pure Block Tin The Upper Part of Beater is Steel Shafting to Better Withstand the Wear and Avoid All Risk of Breakage which Occurs when Shaft is Part of Casting of Beater A Cup on This Shaft Protects the Cream from Any Dirt Passing in Around Shaft The Beater Has Two Steel Scrapers for Side of Can and Scraper for Bottom The Scrapers are Made from Rolled Steel Bars Ground Straight and True to Fit Can, and Insure Clean Scraping of Cream as Frozen. The Lid of Can is Furnished Regularly with Two Glass Openings Set Flush, so Top of Lid is Smooth and Free from Projections

STEEL CANS

Tight and Loose Pulleys are 18 x 4 Inches, and Should Run About 150 Revolutions Per Minute to Give Can 100 Revolutions. The Fly Wheel is 42 Inches Diameter, Weighing 175 Pounds. Height of Driving Shaft Above Floor, 33½ Inches Base Plate Measures 38 x 24½ Inches.

		Each
No. 401—With Pulley and Fly Wheel. Weight, 670 Lbs		$180.00
No. 402—With Fly Wheel. No Pulleys. Weight, 598 Lbs		160.00
No. 403—With Pulleys. No Fly Wheel. Weight, 474 Lbs		$147.00
No. 404—Apparatus Only or Tub, Can, Dasher and Lid. Weight, 116 Lbs		65.00

Crated.

NOTE.—Nos. 401 to 403 Machine Freezers with Copper Cans Furnished when Specified

COMBINATION STYLE A

TO USE INTERCHANGEABLY 18-, 24-, 32-,40-QUART APPARATUS IN ONE MACHINE

The Upper Gear, by Means of Splined Shaft with Square on Lower End, Engages in Square Hole in Spindle of Beater to Revolve it. The Lower Gear, by Means of Hollow Spindle Through which Above Shaft Runs) with Clutch in End, Engages with Similar Clutch on Lid of Can to Revolve it. The Beater and Can Revolve in Opposite Directions The Lever Top Operates Both the Splined Shaft and Hollow Spindle Passing (Through Gears the One Movement Raising or Lowering Both at Same Time The Can is Made of No 18 Sheet Steel, Riveted in Seam, with Heavy Malleable Iron Bottom, and Heavily Coated with Pure Block Tin. The Top of Can is Reinforced with Wrought Iron Band. The Body of Can is Very Much Thicker than the Ordinary Can, Made of Heaviest Tinplate, and Cannot be Dented by Careless Use, or by Ice in Packing. Copper Cans are Furnished if Required, but They have been Largely Displaced by the Superior Qualities and Lower Price of Steel Can The Tub is Made Extra Heavy of Selected Virginia White Cedar, with 1¾-inch Thick Stave Tongued and Grooved Into Each Other and Held Together with Electric-welded Wire Hoops, which are Much Stronger than Ordinary Flat Hoops, and Guaranteed Not to Fall Off The Tubs are Painted Both Inside and Outside The Dasher or Beater is of Malleable Iron, Heavily Coated with Pure Block Tin It has Two Metal Scrapers for Side of Can and One Scraper for Bottom of Can. The Scrapers are Made from Rolled Steel Bars, Ground Straight and True to Fit Can and Insure Clean Scraping of Cream as Frozen. Driving Shaft Parallel with Line of Tub and Frame.

STEEL CANS

MACHINE WITH ONE SIZE APPARATUS

With Pulleys and Fly Wheel.

Nos.	Quarts	Weight Lbs.	Each
A40	40	618	$196.00
A32	32	607	191.00
A24	24	596	186.00
A18	18	587	17.00
Without Pulleys, Deduct	50		20.00
Without Fly Wheel, Deduct	122		13.00

APPARATUS ONLY

Tub, Can Lid, and Dasher

Nos.	Quarts	Weight, Lbs.	Each
AA40	40	103	$61.30
AA32	32	92	56.05
AA24	24	81	50.00
AA18	18	72	45.00

Crated.

MACHINE ICE CREAM FREEZERS

"IMPROVED SEAMAN" AND LIGHTNING

GENERAL DESCRIPTION

Note.—These Machine Freezers Can be Furnished with Copper Cans When Specified at an Advance in Price

The General Design and the Mechanism for Engaging Gearing with Dasher is Same as in Combination Freezer, but the Smaller Size of Machine, the Omission of Belt Shifter, and No Provision to Use Different Size Apparatus Interchangeably, Allows of a much Less Price Than the Same Sizes in Our Combination Freezer, and Puts a Substantially Built Machine Freezer of a Small Capacity Within Reach of Every Confectioner Using Power. The Coupling to Connect Gearing to Can has Clutch at Each End, One of which Engages with Clutch on Lid of Can and the Other with Clutch on Lower Bevel Gear. The Shaft of Dasher Passes Through Coupling and Engages with Upper Gear. As the Upper and Lower Bevel Gears Turn in Opposite Directions the Can and Dasher will do Likewise. The Clutches in Gearing are Operated by One Small Lever at Top of Machine. When Lever is Thrown in Opposite Position the Clutches are Separated so that Tub with Can and Dasher may be Readily Removed. The Lever Locks the Clutch in Either Position. The Arrangement of Parts is Such that the Gearing is Never Exposed at Any Time, not Even During the Change of Tubs and Cans. The Cover Prevents Any Possible Injury to Operator, or the Gearing Becoming Clogged with Dirt or Ice, and Salt. There are no Loose Pieces to be Lost or Mislaid. The Can is made of No. 18 Sheet Steel Riveted in Seam, with Heavy Malleable Iron Bottom, and Heavily Coated with Pure Block Tin. The Top of Can is Reinforced with Wrought Iron Band. The Body of Can is Very Much Thicker Than the Ordinary Can Made of Heaviest Tinplate. The Tub is made Extra Heavy of Selected Virginia White Cedar, with Staves Tongued and Grooved into Each Other, and Held Together with Electric-welded Wire Hoops, which are much Stronger Than Ordinary Flat Hoops, and Guaranteed not to Fall Off. The Tubs are Painted Both Inside and Outside. The Dasher or Beater is of Malleable Iron, Heavily Coated with Pure Block Tin. It has Two Metal Scrapers for Side of Can and One Scraper for Bottom of Can. The Scrapers are made from Rolled Steel Bars, Ground Straight and True to Fit Can and Insure Clean Scraping of Cream as Frozen.

"SEAMAN" Style Dasher in 14-, 18-, 24-, and 32-quart Sizes. In this Style Both Can and Dasher Revolve, but in Opposite Directions.

"SEAMAN" STYLE

Tight and Loose Pulleys, 16 x 3 Inches, Should Run 150 Revolutions Per Minute, to Give Can 100 Revolutions. Fly Wheel 28 Inches Diameter. Height of Driving Shaft Above Floor, 35 Inches. Base-plate Measures 29 x 19½ Inches.

STEEL CANS

WITH PULLEYS AND FLY WHEEL

Nos.	Qts.	Wt., lbs.	Each
500	14	310	$116.50
501	18	314	115.00

WITH PULLEYS AND FLY WHEEL

Nos.	Qts.	Wt., lbs.	Each
502	24	433	$137.70
503	32	442	142.90

	Each
Without Pulleys, Deduct	$13.60
Without Fly Wheels, Deduct	10.20

Crated

"LIGHTNING" Style Dasher in 14- and 20-quart Sizes. In This Style the Can Revolves and Main Body of Dasher is Stationary. The Famous Wheel Dasher, However, Revolves Continually During the Final Freezing of Cream and Produces a Velvety Smoothness.

LIGHTNING STYLE

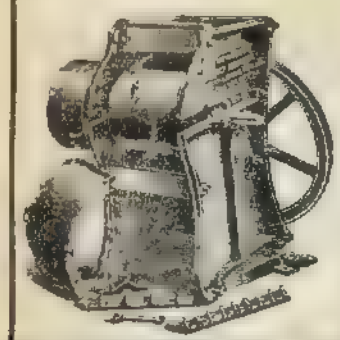
Tight and Loose Pulleys 14 x 2½ Inches, Should Run 150 Revolutions Per Minute, to Give Can 100 Revolutions. Fly Wheel, 24 Inches Diameter. Height of Driving Shaft Above Floor, 31 Inches. Base-plate Measures 26 x 17½ Inches.

Nos.	Qts.	Wt., lbs.	Each
504	14	312	$116.50
505	20	324	129.00
Without Pulleys, Deduct		30	13.60
Without Fly Wheel, Deduct		45	6.80

Crated

ICE BREAKERS OR ICE CUTTING MACHINES

FOR POWER OR HAND USE



For Breaking Ice in Small Pieces for Use in Freezing Ice Cream and Sherbets for Ice Cream Parlors, Confectioners, Hotels and Restaurants, and for Packing Fish, Oysters, Milk, etc., or where Loose Ice is Required in Quantity

NEW RAPID

General Description

Flanged and Ribbed Cast Iron Frame Plates Held Securely Together by Strong Bolts, Extending Across the Width of Machine, and Held Tight by Lock Nuts. The Side Frames are Closed Tight at the Bearings Preventing Ice Passing Through Into the Pulleys, an Important Feature Not Found in Other Breakers. The Lower Plate in All Except No. 12 is Fitted into Slides and can be Used Either at Front or Back of Machine as Desired. The Upper Back Plate in All Except No. 12 is Made to Adjust Toward or Away from the Cylinder, in Order to Break the Ice Finer or Coarser with the Plate in Use. The Cylinders are Heavy and Strongly Braced, Clamped and Keyed to the Steel Driving Shaft, which is Supported by Bearings of Ample Size and Well Babbitted. The Passage Bust Gear, Drop Forged Steel Made Round and Tapered at Shank to Fit Taper Hole in Cylinder and Will Interchange Without Machining or Filing. They are Readily Removable from Socket by Tapping on Back End, Yet are Driven Tightly into Socket During the Breaking of Ice and will not Loosen and Fall Out

No. 12

NEW RAPID

Two Combs, One Fine and One Coarse are Furnished with Each Machine. Should Run 150 Revolutions Per Minute. Fly Wheel with Handle. Tight and Loose Pulley Furnished with Each Machine

Nos.	112	15
Capacity Per Hour, Tons	2½	4
Size of Opening, Inches	12 x 10	5 x 14
Size of Each Pulley, Inches	12 x 2½	14 x 3½
Diameter of Fly Wheel, Inches	24	30
Height of Frame, Inches	35½	34
Size of Base, Inches	16½ x 18	2 x 25
Weight, Each, Lbs.	301	645
Each	$91.80	$142.80

Loose.

No. 15

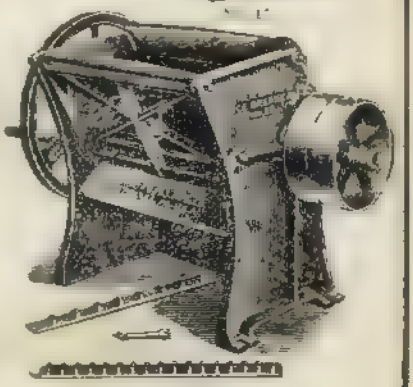
No. 21

NEW RAPID

Two Combs, One Fine and One Coarse, are Furnished with Each Machine. Should Run 150 Revolutions Per Minute. Fly Wheel with Handle. Tight and Loose Pulley with Each Machine

Nos.	21	28
Capacity Per Hour, Tons	6	12
Size of Opening, Inches	21 x 14	28 x 14
Size of Each Pulley, Inches	14 x 3½	14 x 3½
Diam. of Fly Wheel, Inches	30	30
Height of Frame, Inches	34	34
Size of Base, Inches	27 x 23	36 x 23
Weight, Each, Lbs.	760	1200
Each	$170.00	$229.50

Loose.



No. 28

NEW RAPID

No. 108 is a New and Smaller Size, and Intended for Hotels, Restaurants, Bars, Ice Cream Makers, etc., Where it is Desired to Break Ice by Hand with Efficiency and Quickly, with Only a Small Outlay for the Machine.

No.	108
Capacity Per Hour, Tons	¼
Diameter of Cylinder, Inches	3
Size of Opening, Inches	8 x 6
Diameter of Fly Wheel, Inches	13
Outside Measurements of Breakers, Inches	17 x 15 x 13
Size of Iron Box, Inches	12 x 9½ x 6½
Weight, Each, Lbs.	67
Each	$23.80

Loose

WASHING MACHINES

"MOLA" POWER AND ELECTRIC WASHERS. WITH PERFORATED CYLINDER AND SWINGING WRINGER

The Most Compact, Efficient, Simplest, Quickest and Most Satisfactory Washing Machine Made

The MOLA is operated on the reverse cylinder principle which is conceded by experts to be the only correct method of washing clothes clean without injury. All modern laundries use cylinder machines, but heretofore they have not been available for the home on account of the high cost of manufacturing this type of machine.

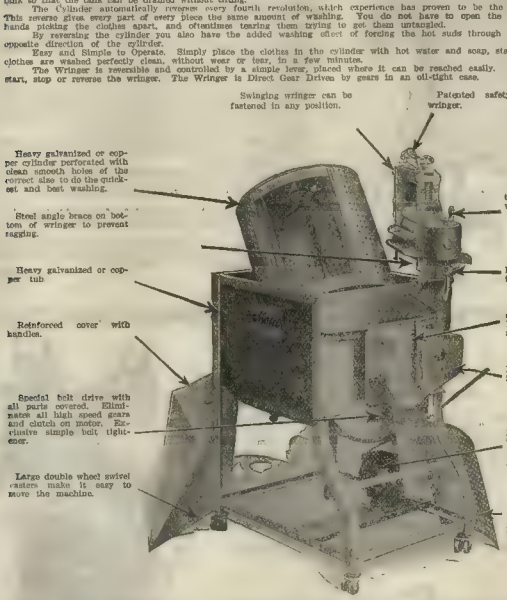
The **MOLA** Machine is made of All Metal Parts, Always Clean and Sanitary. It is made with a cock at the bottom of the tank so that the tank can be drained without tilting.

The Cylinder automatically reverses every fourth revolution, which experience has proven to be the proper number of times. This reverse gives every part of every piece the same amount of washing. You do not have to open the machine and scald your hands picking the clothes apart, and oftentimes tearing them trying to get them untangled.

By reversing the cylinder you also have the added washing effect of forcing the hot suds through the cloths, going in the opposite direction of the cylinder.

Easy and Simple to Operate. Simply place the clothes in the cylinder with hot water and soap, start the Machine, and the clothes are washed perfectly clean, without wear or tear, in a few minutes.

The Wringer is reversible and controlled by a simple lever, placed where it can be reached easily. Move this lever and you start, stop or reverse the wringer. The Wringer is Direct Gear Driven by gears in an oil-tight case.


Swinging wringer can be fastened in any position.
Patented safety release wringer.
Heavy galvanized or copper cylinder perforated with clean smooth holes of the correct size to do the quickest and best washing.
Steel angle brace on bottom of wringer to prevent sagging.
Heavy galvanized or copper tub
Reinforced cover with handles.
Special belt drive with all parts covered. Eliminates all high speed gears and clutch on motor. Excessive simple belt tightener.
Large double wheel swivel casters make it easy to move the machine.
Convenient wringer control. Starts, stops or reverses wringer.
Friction clamp which holds wringer in any position.
Neutral lever to stop cylinder. By lifting small latch cylinder is released and automatically starts.
All working parts of the Mola are enclosed and run in hard oil.
Special water splash-proof Robbins and Myers ¼ H. P. washing machine motor. Large enough to run washer and wringer at the same time.
Cylinder door which is easy to put on and locks in position with two thumb nuts.

Complete Equipped with Electric Motor for 110 Volt, 60 Cycle, Alternating Current, Electric Cord, with Plug, etc.

	Each
No. M10—With Galvanized Steel Body and Cylinder	$150.00
No. M11—With Copper Body and Galvanized Steel Cylinder	165.00
No. M12—With Copper Body and Copper Cylinder	180.00

Estimated Weight Crated, 240 Lbs.

Note—When Sending Your Order for the Electric, be Sure to Give us Full Information Regarding Your Electric Current—The Voltage, also whether Alternating or Direct Current; If Alternating Current, tell us Number of Cycles and Phase, ask your Electric Light Company.

Can also supply from Factory for 220 Volt

ENGINE POWER WASHER

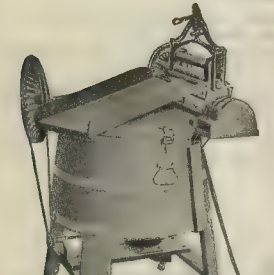
Completely Equipped with Pulleys for Belts

	Each
No. M20—With Galvanized Steel Body and Cylinder	$120.00

Estimated Weight Crated, 200 Lbs.

WASHING MACHINES

ELECTRIC MOTOR HIGH SPEED WASHER



Costs No More to Operate than an Ordinary Electric Light; Highest Type of Guaranteed Motor and Switch Furnished. Cornes Equipped with Specially Constructed Power Wringer. Both Washer and Wringer run by same Power. Nothing Complicated, Simple in Construction; a Child can Operate it. Fool and Accident Proof.

Special Designed Gears eliminate destructive clutches and unhandy shift levers that shorten motor's life. Spiral Gears give Speed, Precision, Silence. Mechanism all enclosed; absolutely safe. Ball bearings abolish friction and noise.

Four Wing Wooden Agitator forces soapy water through clothes at rate of 320 gallons a minute, and will not tear the clothes. Quick release faucet drains water quickly from tub.

Machine and Wringer driven by ¼ H. P. specially constructed washing machine motor with 100 per cent overload capacity.

Operated by modern electrical means. Equipped with heavy copper reversing fool-proof knife switch. The constant quick reverse of the switch does not injure and shock the motor like a clutch. The constant shocking by clutches reversing the heavy mechanism will, in a short time, completely destroy it. Motor and switch guaranteed under standard guarantee on electric equipment.

Simple to Operate. Motor switch-lever to right wrings clothes to the right; moving switch-lever to left wrings clothes to left. Machine stopped by placing switch-lever in upright position.

Wringer made especially for power machines. Quick release lever throws wringer out of gear when not in use, insuring safety. Two special springs lift top roller when thrown out of gear. Conveying-wringer board permits one to wring from one tub to another.

Machinery mounted on tub so that cover is free from weight when washer is open. Cover opens back so that entire opening of tub is accessible for removing clothes.

Handsome appearance. Tub and staves made of Louisiana Red Cypress, and Finished off as fine as a piece of furniture. Large, heavy handles. Easy rolling casters. Gold bronzed hoops; other metal parts aluminized.

	Each
No. 410—With Electric Motor for 110 Volt, 60 Cycle, Alternating Current	$120 00

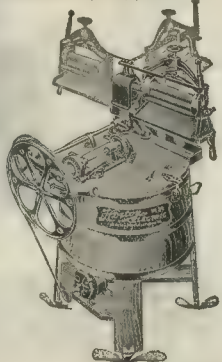
Weight, Crated, 150 Lbs.

FOR SHIPMENT FROM FACTORY

Note: When Sending your Order for Electric Motor High Speed Washer, other than No. 410 be Sure to Give us Full Information Regarding your Electric Current—the Voltage, also whether **Alternating or Direct Current**; if alternating current, tell us **Number of Cycles and Phases**; ask your Electric Light Company.

HORTON ELECTRIC WASHER

With New Three-Way Wringer



Carefully Made in Every Detail; the Tub is of Selected Louisiana Red Cypress, Fully Corrugated on the Inside by a Special Process to Avoid Splinters. All Driving Gears are Cut Instead of just cast, Reducing Friction to a Minimum and Making it Noiseless in Operation. All Exposed Gears are Covered to Prevent Accident. Hardened Dolly with Four Extra Large Pegs and Guarded Post; Clothes cannot tear. Mounted on Heavy Ball-Bearing Casters, making it extremely easy to move around.

MOTOR

A Specially Designed Fort Wayne Motor having Ample Power to Operate Washer and Wringer at the Same Time. Best Grade of Belting Used.

Should anything happen temporarily to motor or current, the Machine and Wringer can be operated by hand.

Wringer

The Wringer with which this Machine is Equipped is a Special Two-Roll Reversible Ball-Bearing Wringer and has a patented device to prevent injury.

A Simple Movement of the Hand Swings the Wringer from One Position to Another to enable wringing between tubs and basket.

Finished in the **Natural Wood Finish, with Mechanism in Gold Bronze; Fly-Wheel and Hoops, Green Enameled.**

	Each
No. 32- 32DC—For 32 Volt Direct Current, Delco Lighting System	$130 00
No. 32-110AC—For 110 Volt, 60 Cycle, Alternating Current	130 00
No. 32-110DC—For 110 Volt, Direct Current	130 00

Packed in a Substantial Crate; Weight about 200 Lbs.

WASHING MACHINES

PEERLESS WATER POWER

Runs by Water Power; Connect the Machine to the City Water Faucet, the Water Pressure Does the Rest

The Motor with which this Washer is Equipped is the Most Powerful made for the Purpose; it is a New Departure in Water Motor Construction. Its Mechanism is Very Simple; Instead of having Poppet Valves like other motors, it has **One Automatic Sliding Valve** which is not Dependent on Springs to Operate. This Does Away with All Spring and Valve Trouble which has caused so much grief to users of ordinary motors.

This motor will Work to Best Advantage with a Water Pressure of 35 Lbs., or Over, but will Operate on as Low as 20 Lbs.' Water Pressure.

Each

No. 30—Tub is Made of Selected Louisiana Red Cypress Wood, Thoroughly Seasoned. Inside Dimensions—Diameter at Bottom 22⅝ in., at Top 20¾ in., Depth 13¼ in., Height to Top of Tub 28¾ in., Height Overall 29½ in., Length of Wringer Board 15½ in.; Tub is Finished in Natural Wood; Hoops and Trimmings Enameled Green. Motor Finished in Red Enamel; Complete with Wire Bound Intake and Discharge Hose. Dolly Post is Guarded by a Galvanized Cup to Prevent Tearing Clothes . . . $36.00

One in a Crate; Shipping Weight 75 Lbs.

NATIONAL WATER POWER

Operated by Water Pressure of 20 Pounds or More

The National Motor is not an Experiment but has been in Successful use for Seven Years. It is Built like a Pump, having but few working parts, and these are very simple and do not require any nice adjustments; Has no exposed working parts to be injured or tampered with, and has only one stuffing Box, which is Easily Accessible.

No Coil Spring to cause trouble. Only four working parts in the Cylinder; Has No Dead Center, Motor will start from any position. Brass Cylinder, Encased in a Galvanized Iron Casing which Protects it from Injury.

Each

National—Tub is Made of Louisiana Gulf Cypress, finished in National Color; Galvanized Iron Castings; Dimensions: Bottom, 26½ in. in Diameter; Top, 29½ in. in Diameter; Staves, 15¾ in. $35.00
Weight, Crated, about 70 Lbs.

SUCCESS WATER POWER

Will Do a Washing Successfully on a 20 Lb. Water Pressure, and Can Be Operated on a 10 Lb. Pressure

Success Motors are Simple in Design of Working Parts, having no Complicated Parts or Mechanism, which Insures their Successful Operation on either a High or Low Water Pressure. Made from the Best Steam Brass Composition, with Valve Arrangement such that the Valves are in Perfect Alignment, which insures Perfect Valve Action at all times Motors have only Two Springs made from the Best Phosphor Bronze Spring Wire and are arranged in Spring Cups which gives the use of the whole spring in compression and practically does away with breaking of springs. All parts are Interchangeable.

Each

Success—Tub is large, substantial and symmetrically built of the very best Louisiana Gulf Cypress and with reasonably good care will last for many years $32 50
Weight Crated, about 80 Lbs.

WASHING MACHINES

MUSKEGON POWER WASHING MACHINE

Hitch Your Gasoline Engine to this Power Washer; Requires only One-Tenth Horse Power for Satisfactory Operation

The Muskegon Power Washer is Operated by a Tight and Loose Pulley which may be attached to any convenient power. All Wheels, Rods, Gears, and Other Working Parts are Enclosed; the Cut Gears give accuracy, Pressure and Speed to the Action of the Agitator in the Tub; the Four winged Wooden Dolly Agitates the Clothes and Sends 320 Gallons of Hot Suds Through them Each Minute; the Dirt Can't Remain. The Finest Linens or Heaviest Clothing Wash Equally Well.

The Bronze-bearing, Steel-frame Wringer has High Grade Chemical Proof Rubber Rolls. It is operated while the Machine is in motion or at a standstill. Can be stopped or reversed while the Machine is Operating.

Each

Muskegon—Tub is made of Louisiana Red Cypress, Beautifully Finished; the Hoops are Gold Bronze, and the Fly-wheel and Castings are Silver Gray, Equipped with a Metal Faucet for Draining off the Water; a Secure Cover Lock that Holds the Cover Tight and Prevents the Escape of Steam and Heat: Tub is Mounted on Four Casters and Guaranteed for Five Years. Dimensions—Bottom 24½ in. in Diameter; Top 21 in. in Diameter; Staves 14⅛ in.; Wringer Board 14½ in. $60.00

Weight, Crated, about 149 Lbs.

HORTON POWER WASHER

Combined Washer and Wringing Machine

All Driving Gears are Cut instead of just cast, reducing friction to a minimum and making it noiseless in operation. All Exposed Gears are Covered to prevent accident.

No Tight or Loose Pulleys required as the Pulley Wheel Stays in position when lid is opened.

By having a Fly Wheel on Hand which Interchanges with the Pulley Wheel, the Machine and Wringer Can be Operated by Hand.

Equipped with a Special Two-Roll Reversible Ball-Bearing Wringer and has a patented device to prevent injury. A simple movement of the hand swings the wringer from one position to another to enable wringing between tubs and basket.

Hardwood Dolly with Four Extra Large Pegs and Guarded Post: Clothes Cannot Tear. Brass Drain Faucet, threaded, and on bottom of tub.

Each

No. 31—Tub is Made of Selected Louisiana Red Cypress, Natural Finish. Ball-Bearing Wringer, with Rolls 10x1⅝ in., Guaranteed for Five Years..... .....$72 00

One in a Substantial Built Crate; Weight Crated, 175 Lbs.

METAL TUB STANDS

The Detached Tub Stand is a Decided Advance, appreciated alike by the dealer and the user; They are Light, Strong, Very Durable and take up but little space; Mounted on Casters and are Easily Moved about.

Each

Metal Tub Stands. $4 70

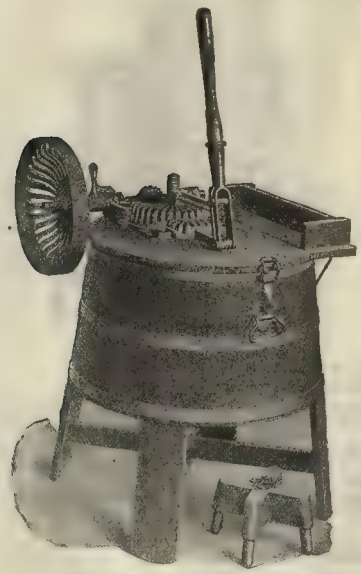
Open Stock; Weight Each about 6¼ Lbs.

WASHING MACHINES

THE MOTOR POWER

Operated by Hand or Belt

The Motor Power Washer turns Waste-power into Profit every wash-day. Saves Hours of Labor Weekly—Weeks of Time Yearly; Wear and Tear on Clothes, Steam, Slop, Drudgery



The principles involved in this Latest Power Washer have been **Proved** and **Perfected** through a generation of experience in providing mechanical washing advantages to more than 500,000 Homes.

The Motor Power Washer has Spiral Cut Gears that are as nearly frictionless as mechanical skill can make them. No loss of power—no sticking or jerking—freedom from vibration.

The Spiral Cut Gears keep the four-winged wooden dolly spinning at a rate that 320 gallons of hot suds are churned through the clothes each minute.

Nothing to Catch or Tear the Clothes. All working parts inclosed for "Safety First." No Dripping Oil—No Rust Stains.

A Metal Faucet provides a speedy means of draining off the water when the tub is to be emptied. No dipping necessary. No water left in the tub.

A Spring Cover-lift makes the Raising of the Cover Easy.

A Secure Cover-lock Holds the Cover in Place and Prevents the Escape of Steam and Heat.

Extra heavy, friction-eliminating ball bearings used to provide for radial and thrust pressure.

Wide rimmed, lathe-turned Fly Wheel makes connection with Engine Belt easy.

When running by belt, raising cover throws machine out of gear, making it unnecessary to stop engine while wringing clothes. Lowering cover and pressing lever throws machine back in gear.

So little power is required (due to its modern design and superior construction) that the cost of operation is very small—almost nothing.

The Wood is of Louisiana Red Cypress—the wood that thrives in water. It [illegible] Odorless and Sanitary. No Moldy [illegible] ing or Shrinking.

The Hoops are all Gold Bronzed—Rustless and Durable.

The Tub is beautifully finished, like a fine piece of furniture.

A Genuine Household Time, Labor and Money Saver

The Motor Power Washer takes the **Work, Worry** and Waste out of wash-day. No more long hours of tiresome drudgery—with aches and fagged body at the day's end.

All Classes of Clothes from the most delicate laces to the heaviest pieces—are washed snow-white without tear or wear.

The washing is out on the line before by the old wash-tub method you would have fairly got started.

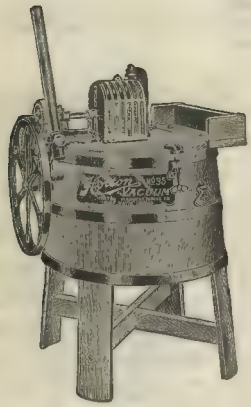
Easy to operate—nothing about it that a child could not learn quickly. No mechanical knowledge or skill required in its operation.

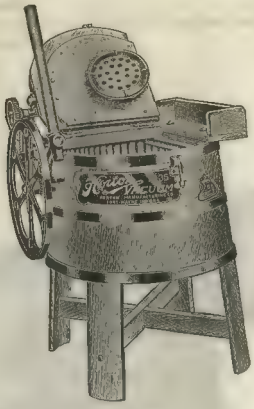
Each

No. 300—Tub is Made of Louisiana Gulf Cypress Wood; Dimensions—Bottom, 24½ in. Diameter; Top, 21 in. in Diameter; Staves, 14½ in.; 14½ in. Wringer Board.....$32.00

One in a Crate, Shipping Weight, 112 Lbs.

WASHING MACHINES





HORTON VACUUM

Can be Operated by Power of Any Kind as Well as by Hand

The Plunger or Agitator Does 50 per cent More Work with the same effort than any other machine, because it makes 2¾ Strokes to Each Stroke of the Operating Lever. This High Speed, without more power, is made possible by the Friction less, Machine-Cut Gears and the Perfectly Balanced Mechanism. The High Speed of the Plunger with its Many Perforations, or Air Valves, causes so Much Agitation that the Clothes are Thoroughly Cleaned in less time than by any other Vacuum Type Machine.

Can also be **Operated with Power** of Any Kind, by simply Exchanging the Large Fly Wheel for an 8 in. Flat Belt Wheel. This **Valuable Feature** is possible because this mechanism being discontinued when lid is opened, and thus also eliminates the need of tight or loose pulleys.

The Operating Lever can be used in either one or two positions to suit the convenience of the operator.

Extra Large Tub of Louisiana Cypress Wood, Attractively Finished in Natural Wood: Fly Wheel and Hoops Green Enameled; Balance of Mechanism in Gold Bronze. Plunger Heavily Galvanized. All Gears are Covered.

Inside Dimensions of Tub: 20⅝x22⅜x11½ in.

	Each
No. 35—Shipping Weight about 120 Lbs.	$29.00

POWER PULLEYS

To meet the demand of Farmers or Others Requiring a Washer that can be Run by a Gas Engine or Other Method of Power, the Fly Wheel can be Taken Off and a Power Pulley put in its place. The Engine need not be stopped nor the Belt Removed Each Time the Lid is Opened, nor Tight or Loose Pulleys Required.

	Each
No. 22P—Weight Each about 5 Lbs.	$2.50

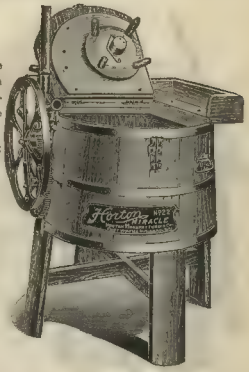
WASHING MACHINES

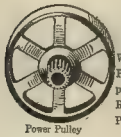
MIRACLE

For Use as Hand Power or Gasoline Engine

Equipped with the Simplest and Easiest Running Mechanism of Any Washing Machine Manufactured. The Driving Gears are Cut instead of Cast, causing the Teeth to Mesh Perfectly and Reducing Friction to a Minimum; No Lost Motion; the Momentum is Maintained by the Large Heavy Fly Wheel. The Operating Lever can be placed in either One of Two Positions, convenient for a short or tall person, adult or child.

The Dolly Post is Guarded by a Galvanized Cup, eliminating all possibility of tearing Clothes.





Power Pulley

Special Feature

To meet the demand of Farmers or Others Requiring a Washer that can be Run by a Gas Engine, or Other Method of Power, the Fly Wheel can be Taken Off and a Power Pulley put in its place. The Engine need not be stopped nor the Belt Removed Each Time the Lid is Opened, no Tight or Loose Pulleys Required.

Each

No. 22—Tub is made of Selected Louisiana Red Cypress Wood, Thoroughly Seasoned. Inside Dimensions—Diameter at Bottom, 22⅝ in., at Top, 20½ in.; Depth, 13¼ in., Height, to Top of Tub, 28¾ in.; Height Overall, 29⅝ in.; Length of Wringer Board, 15½ in.; Tub is Finished Natural with Three Coats of Coach Varnish, Mechanism in Gold Bronze, Fly Wheel and Hoops, Green Enameled..... $28.00
One in a Crate; Shipping weight, 100 Lbs.

No. 22P—Extra Power Pulley for Miracle Washing Machine; Weight 5 Lbs..... 2.50

WASHING MACHINES

MOTOR HIGH SPEED

Spiral Cut Gears; Runs Easy Loaded or Empty

A little power imparted to the lever starts the movement and the heavy fly wheel on the top does the rest and keeps the machine going with very little exertion on the part of the operator. The **Fly Wheel is on Ball Bearings** and runs about sixteen to one turn of the agitator, or pin block inside the machine; it also imparts power and momentum to the dolly post attached to the pin block, and this is why the machine runs so easily

Each

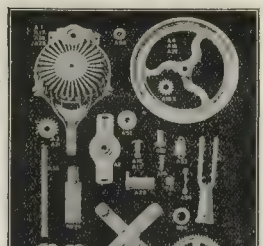
Motor High Speed Made from Louisiana Gulf Cypress wood, finished in Natural Color, with Three Malleable Iron Hoops, of Gray Iron, Malleable Iron and Steel; Such Castings that come in contact with the water are Heavily Galvanized to Prevent Rusting. Dimensions: Bottom, 24½ in. in Diameter, Top, 21 in. in Diameter; Staves, 14½ in.; with 14½ in. Wringer Board..$15.00

Weight, Crated, About 89 Lbs. Each

MOTOR HIGH SPEED WASHING MACHINE PARTS

Order by Number and Technical Name

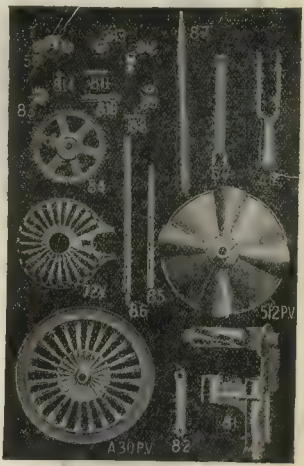
No.	Name	Each
A1	—Main Casting for A8	$1.00
A17	—Main Casting for A16	1.00
A26	—Main Casting with ⅞ in. Threaded Hole for A19X	1.00
A28	—Main Casting with ⅝ in. Threaded Hole for A27	1.00
A29	—Main Casting with ⅝ in. Threaded Hole for A27	1.00
A4	—Balance Wheel, 14 Teeth	1.00
A15	—Balance Wheel, 13 Teeth	1.00
A22	—Balance Wheels and Spiral Cut Pinion for A18X	1.50
A18X	Balance Wheel Pinion, Spiral Cut, 16 Teeth	.50
A5	—Rack; Interchangeable	.40
A20	—Rack; Interchangeable	.40
A25	—Rack for A29	.40
A6	—Main Drive Gear, 56 Teeth	.40
A16	—Main Drive Gear, 54 Teeth	.40
A18X	—Main Drive Gear, 64 Teeth, Spiral Cut	1.00
A27	—Main Drive Gear, 64 Teeth, Spiral Cut, ⅝ in. Hole	1.00
A7	—Wood Handle Casting	.30
12	—Wood Pin Block	.30
A2	—Dasher Post Cover Casting	$0.40
A50	—Wing Dolly	.50
A3	—Dasher Post Pinion; Interchangeable	.40
A21	—Dasher Post Pinion; Interchangeable	.40
A8	—Drive Gear Roller	.20
A12	—Drive Gear Stud; ⅞ in. Size for A8, A16, A16X	.20
A13	—Drive Gear Stud Bolt; ⅞ in. Size for A8, A16, A16X	.20
A51	—Drive Gear Stud and Nut, ⅞ in. Size for A8	.20
A14	—Drive Gear Roller Stud	.20
4	—Galvanized Dasher Post Collar	.20
84	—Galvanized Dasher Post	.30
A52	—Steel Washer, 2¼ in. for A51	.20
A23	—Wing Dolly Center Casting	.20
A24	—Dolly Top Plate, Square Hole	.20
A25	—Dolly Bottom Plate	.20
A53	—Cover Spring	.40
A54	—Cover Spring Fastener	.20
A55	—Square End Dolly Shaft	.50
A56	—Ball Bearing Case	.30



WASHING MACHINES

"PERFEX VACUUM"

The Perfex Vacuum Washer Runs Easier Loaded than others do empty; Enables the Housewife to do the week's washing in less than half the time. It washes clothes clean and white, and will make them last longer. Takes the drudgery out of washing. Saves strength and patience



FEATURES OF MECHANICAL EXCELLENCE

Spiral Cut Gears—make it run easier loaded than others do empty; easy, smooth, swift, noiseless.

Special Design Vacuum Dolly—rust proof; cannot catch or tear the clothes; a perfect agitator. 320 gallons of water sent through clothes each minute—cleansing more thoroughly than any other washer.

Automatic Cover Lift.

Steam-tight Cover Lock.

Quick-Release Metal Drain Faucet.

Roller Bearings—"runs like a sewing machine."

Gears all inclosed fool-proof; accident proof.

Louisiana Red Cypress Tub—"the wood eternal."

Finish—like a piece of fine furniture; bronzed hoops; other metal parts aluminized, very handsome.

Operation—so simple a child could run it. Full directions with each machine.

Guaranteed for one year.

Each

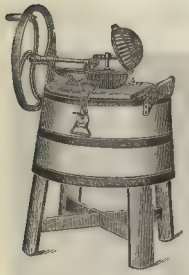
Perfex Vacuum Washing Machine—Dimensions: Bottom, 24½ in. diameter; Top, 21 in. diamter; Staves, 14½ in.; 14½ in. Wringer Board. $28 00

One in a Crate; Shipping Weight, 110 Lbs.

LIST OF REPAIR PARTS

	Name	Price	Weight
No. 81—	Main Casting	$2.50	9 lbs. 2 oz.
No. 82—	Pitman	.50	8 oz.
No. 83—	Pinion, 13 teeth	.75	4 oz.
No. 84—	Gear, 55 teeth	1.50	2 lbs. 6 oz.
No. 85—	Balance Wheel Shaft, ⅝ in. diameter	.60	13 oz.
No. 86—	Dolly Shaft, ⅞ in. diameter	.60	1 lb. 7 oz.
No. 87—	Handle	10	7 oz.
No. 88—	Roller Pin	30	1 oz.
No. 89—	Nut for No. 86	25	1 oz.
No. 810—	Shaft for No. 84	50	5 oz.
No. 811—	Pitman Pin	40	2 oz.
No. 812—	Toggle	40	3 oz.
No. 813—	Collar for No. 810	25	1 oz.
No. 814—	Roller	25	1 oz.
No. A7—	Handle Casting	70	1 lb. 12 oz.
No. 57—	Connecting Rod	60	1 lb.
No. 512—	P. V. Dolly	2 50	1 lb. 12 oz.
No. A30—	P. V. Balance Wheel	2 50	8 lbs. 13 oz.
No. 72V—	Gear Cover	1 00	2 lbs. 6 oz.
No. 58—	Handle Bracket	50	9 oz.

WASHING MACHINES



MICHIGAN

Two Speed, Four Stroke Rotary

The Michigan has a Combination of Vertical, Rotary and Alternate Motions, that is, the Dasher has Four Distinct Motions: Forward and Back, Lifting and Forcing, which can be Regulated by means of the Two Speed Arrangement on the Gearing of the Washer. This can be Interchanged Very Easily in a short space of time and without the use of tools. It is an excellent advantage over the One Speed Rotaries and fills the long existing demand for a machine that can be Geared up to a Higher Speed for use in Washing Heavy or Light Clothes, for instance, when the Tub is Filled with Heavy Pieces such as Quilts, Blankets and Heavy Garments, the Ordinary Speed may be used; when Washing Children's Clothes such as usually are very dirty, it can be Instantly Changed to a High Speed which will Wash them Perfectly Clean.

The Gearing is Entirely Machine Fitted and is so Proportioned in Size to Allow Excellent Leverage. It is Covered by a Hinged Basket of Cast Iron and is an Absolute Protection Against Children, who find the gearing parts quite interesting to their curiosity.

The Wringer Board is Attached by Patent Malleable Iron Fastenings and is sufficiently large to Allow the Use of a 12-inch Roll Wringer. The Lid when Turned Back Rests upon a Patent Hinge Brace.

	Each
Michigan Tub is Made of Clear White Pine, Beautifully Decorated in Lasting Colors; is Well Made and Reinforced, and is Held up by Stave Legs. The Working Parts are Attractively Finished in Aluminum Bronze.....	$18 00

One in a Crate; shipping Weight 75 Lbs.

AMERICAN

Louisiana Red Cypress Wood Tub fitted with Large Lid, allowing the Entire Top of Washer to Open Up. Legs are Securely Fastened to the Tub; Large Wringer Box held in place by bolts. Improved Mechanism. Wood Work Filled and Varnished, Castings Finished in Aluminum Bronze

	Each
No. 4 — Tub Dimensions: 23x21x11 in., with a Capacity of 22 Gallons	$13 00

Shipping Weight 50 Lbs.

RAPID

Makes Clothes Washing Easy

A Perfect Suction Washer: Washes Clothes perfectly clean without rubbing. The pounding forces a continuous volume of water through the cloth, which is the best known method of cleansing. Will not tear the clothes and does not wear them like rubbing.

	Per Dozen
Rapid—Made of Heavy, Bright Tin Plate; 3 ft.; Maple Handle. Weight per Dozen, about 25 Lbs.	$12.00

BENCH PLANES

WOOD

SMOOTH

Single Irons. Assorted Cutters, 2, 2¼, and 2½ Ins. Weight, Per Doz., About 2½ Lbs.

	Each	
No. W1	$ .70	$1.55

Double Irons. Assorted Cutters, 1¾, 1¾, 1¾, 2, 2¼ and 2½ Ins.

	Each	
No. W3—Weight, Per Dozen, About 2½ Lbs.	$ .90	$2.00

Nos. W10, W11

JACK

2, 2¼ and 2½ Ins.

	Each	
No. W10	$ .85	$1.90

Wt., per doz., abt. 4½ lbs

Double Irons

	Each	
No. W13	$1.00	$2.20

Wt., per doz., abt 4½ lbs.

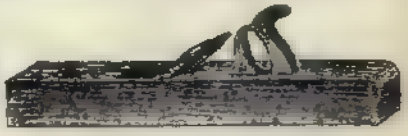
SMOOTH, HANDLED

Double Irons. 2, 2¼ and 2½ Ins. Weight, Per Dozen, About 4 Lbs.

	Each	
No. W5	$1.75	$3.85

FORE

Double Irons. Assorted Cutters, 2¼, 2¼ and 2½ Ins. Wt., Per Doz. About 7Lbs.



	Each	
No. W19	$1.70	$3.75

Loose.

GAGE'S SELF SETTING

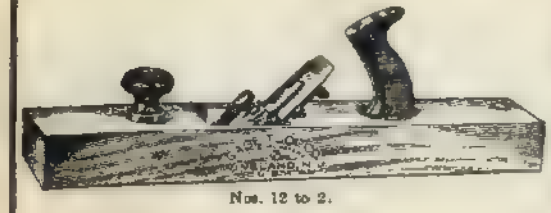
Dropping Plane Bit and Cap Into Their Place Sets It Adjustment is Such That the Cutting Iron May Be Set Square with Face of Plane, Even if Cutting Iron is Not Ground Square.

SMOOTH

	Beechwood Each		Applewood Each	
No. 2—Lgth, 9 Ins., Cutter, 1¾ Ins.	$4.20	$5.05	$4.70	$5.65
No. 4—Lgth, 10 Ins., Cutter, 2 Ins.	4.50	5.40	5.00	6.00
No. 4½—Lgth, 10½ Ins., Cutter, 2¼ Ins.	4.90	5.90	5.40	6.50

JACK

	Beechwood Each		Applewood Each	
No. 6—Lgth, 12 Ins.; Cutter, 1¾ Ins	$4.50	$5.40	.	.
No. 9—Lgth, 14 Ins.; Cutter, 2 Ins	4.90	5.90	$5.90	$7.10
No. 11—Lgth, 16 Ins.; Cutter, 2 Ins.	4.90	5.90	5.90	7.10



Nos. 12 to 2.

FORE

	Beechwood Each		Applewood Each	
No. 12—Lgth, 18 Ins.; Cutter, 2 Ins.	$5.20	$6.25	.	.
No. 16—Lgth, 20 Ins.; Cutter, 2¼ Ins.	5.60	6.70	$7.60	$9.10

JOINTER

	Beechwood Each		Applewood Each	
No. 17—Lgth, 22 Ins.; Cutter, 2¼ Ins.	$6.00	$7.20	$8.00	$9.60
No. 19—Lgth, 22 Ins.; Cutter, 2¼ Ins.	6.50	7.80	.	.
No. 21—Lgth, 24 Ins.; Cutter, 2¼ Ins	6.50	7.80	8.50	10.20

CUTTING IRONS FOR GAGE PLANES

	Each	
1¾ Ins. Wide	$ .60	$ .90
2 Ins. Wide	.65	1.00
2¼ Ins. Wide	.75	$1.15
2½ Ins. Wide	.80	1.20

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

FANCY WOOD PLANES

Tonguing and Grooving Work of Any Kind. Tonguing Plane Cut. Tongue and Grooving Plane Plows Groove. Without Handles or Side Plates. Separate.

BOARD MATCHING PLANES IN PAIRS

Per Pair

No. 99—Cutter, ⅛, ¼, ⅜, ½, ⅝ In. 9½ Ins. Long. $1.50 $3.60

Average weight, per pair, 2½ lbs. Wrapped in paper.

NOSING

No. 111

No. 111—One Iron.

Width Cutter Ins	¼	⅜	1	1¼	1½	1¾
Wt., Each, Abt. Lbs.	1¼	1½	1¾	1¾	1¾	1¾
Each	$ 80	80	80	80	.80	1.00
	$1.90	1.90	1.90	1.90	1.90	2.40

Wrapped in paper

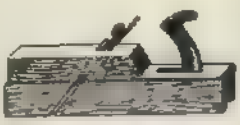
NOSING

For Rounding the Edges of Steps, Etc.

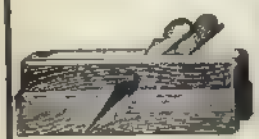
No. 112—One Iron. Handled.

Width Cutter, Ins	1	1¼	1½	1¾
Wt., Each, Abt. Lbs	1½	1¾	1¾	2
Each	$1.10	1.20	1.20	1.20
	$2.65	2.90	2.90	2.90

Wrapped in paper



No. 112



No. 113—Two Irons.

Width Cutter, Ins	¼	⅜	1	1¼	1½
Wt., Each, Abt. Lbs	1½	1½	1½	1½	1½
Each	$1.10	1.10	1.10	1.10	1.10
	$2.65	2.65	2.65	2.65	2.65

Wrapped in paper.

SKEW RABBET

Used for Rabetting All Kinds of Work to Secure a Tight Joint.

No. 148—Length, 9½ Ins.

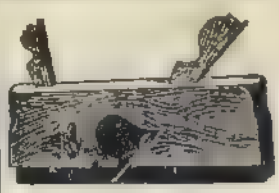
Width Cutter, Ins	¼	½	¾
Wt., Each, Lbs.	¼	½	½
Each	$1.00	.60	.60
	$2.40	1.45	1.45

Width Cutter, Ins	¼	½	1	1¼	1½
Weight, Each, Lbs.	¼	½	1¼	1¼	1¼
Each	$ .60	.60	.65	.70	
	$1.45	1.45	1.55	1.70	

Wrapped in paper

FANCY WOOD PLANES

Grooving, with Spur Cutter and Depth Gauge. Length, 9½ Ins.



DADO

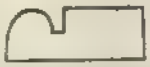
Each

No. 60—With Brass Side Stop. ¼, ⅜, ½, ¾, 1-in. Cut $1.10 $2.65

No. 62—With Brass Screw Stop. ¼, ⅜, ½, ¾, 1-in. Cut 1.50 3.00

Average weight, 1½ lbs. Wrapped in paper.

BEADING PLANES

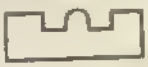


For Cutting Bead on Wainscoting or Other Work.

No. 47—Side Bead. Single Boxed.

Width Cutter Ins.	¼	5/16	⅜	7/16	½	⅝	¾	⅞	1
Each	$ 50	.50	.50	.50	.50	.55	.55	.70	.70
	$1.20	1.20	1.20	1.20	1.20	1.20	1.30	1.70	1.70

Average weight, about 1 lb. Wrapped in paper.



No. 51—Center Bead. Double Boxed.

Width Cutter, Ins.	¼	5/16	⅜
Each	$1.45	1.45	1.45

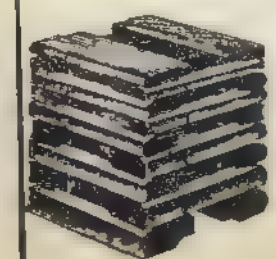
Average weight, about 1 lb Wrapped in paper

No. 48—Side Bead. Double Boxed.

Width. Cutter, Ins.	5/16	⅜	7/16	½	⅝
Each	$1.45	1.45	1.45	1.45	1.45

Wrapped in paper.

HOLLOWS AND ROUNDS



Nos.	92/1	92/2	92/3	92/4	92/5	92/6	92/7	92/8	92/9
Size, Ins.	¼	⅜	½	⅝	¾	1	1¼	1½	
Per Pair	$2.00	2.00	2.00	2.00	2.00	2.00	2.30	2.30	2.30

Wrapped in paper.

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

SIEGLEY PLANES

BLOCK

3¼ Ins. Long. 1-in Cutter

	Each	
No. P100	$ .35	$ .70

One in a box.

3¼ Ins. Long. 1 In. Cutter. Adjustable

	Each	
No. P101	$ .30	$ .60

Half dozen in a box

5¼ Ins. Long. 1¼-in Cutter

	Each	
No. P102	$ .60	$1.20
No. P103—Adjustable	.80	1.60

One in a box

7¼ Ins. Long. 1¾-in. Cutter

	Each	
No. P 110	$ .80	$1.60
No. P2200— Adjustable	1.15	2.30

One in a box

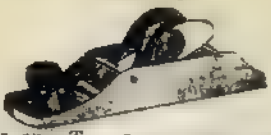
"S S S" WOOD

Solid Steel Thin Cutters Adjustable Lengthwise and Laterally. Bottoms Well Seasoned and Guaranteed

	Each	
No. P23 Smooth. 9 Ins. Long. 1¾-in Cutter	$2.00	$4.00
No. P24 Smooth. 9 Ins. Long. 2-in. Cutter	2.00	4.00
No. P26—Jack. 15 Ins. Long. 2-in. Cutter.	2.25	4.50
No. P27—Jack. 15 Ins. Long. 2¼-in. Cutter	2.50	5.00
No. P28—Fore. 20 Ins. Long. 2¼-in. Cutter	2.75	5.50
No. P35—Smooth Handle. 9 Ins. Long. 2-in Cutter	2.50	5.00

Nos. P23, P24, P35, one in a box, others one in a paper package.

BLOCK



Has Two Slots and Two Cutter Seats. By Reversing Position of Cutter and Clamping Wedge Can be Used Up Into Corners or Other Difficult Places. Cutters Adjustable Lengthwise and Laterally. Adjustable Throat.

	Each	
No. P1300—Double Ender. 8 Ins. Long. 1¼-in Cutter	$1.15	$2.10

One in a box.

Cutters Adjustable Lengthwise and Laterally. Adjustable Throat. 1¾- in Cutter

	Each	
No. P 9½—6 Ins. Long	$1.60	$2.65
No. P16 —7 Ins. Long	1.70	3.03

One in a box.

"S S S" IRON

Solid Steel Thin Cutters Adjustable Lengthwise and Laterally. Made with Smooth and Corrugated Bottom.

Smooth Bottom

	Each	
No. P3 -Smooth. 8 Ins. Long 1¾-in Cutter	$3.00	$6.00
No. P4—Smooth. 9 Ins. Long 2-in Cutter	3.25	6.50
No. P5—Jack. 14 Ins. Long 2-in Cutter	3.75	7.50
No. P6—Fore. 18 Ins. Long 2¼-in Cutter	4.75	9.50
No. P7 -Jointer. 22 Ins. Long 2¼-in Cutter	5.50	11.00
No. P8- Jointer. 24 Ins. Long. 2¼-in Cutter	6.50	13.00

Corrugated Bottom

	Each	
No. P4C—Smooth. 9 Ins. Long. 2-in. Cutter	$3.50	$7.00
No. P5C Jack. 14 Ins. Long. 2-in Cutter	4.00	8.00
No. P6C—Fore. 18 Ins. Long 2¼-in Cutter	5.10	10.20
No. P7C Jointer. 22 Ins. Long. 2¼-in Cutter	5.90	11.80

One in a box.

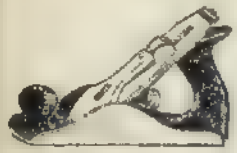
WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

BAILEY'S ADJUSTABLE PLANES

STANLEY RULE AND LEVEL CO.

Japanned Cast Iron Frame, Varnished Rosewood Handle and Knobs Polished Steel Cap. Tempered and Polished Tool Steel Cutters. Screw and Lever Adjustment. Brass Screw

IRON



Nos. 2 to 4½

SMOOTH, PLAIN BOTTOM

	Each
No. 2 —Lgth., 7 Ins. Cut, 1¼ Ins. Wt., 2½ Lbs.	$6.—
No. 3 —Lgth., 8 Ins. Cut, 1¾ Ins. Wt.	7.14
No. 4 —Lgth., 9 Ins. Cut, 2 Ins. Wt. 3½ Lbs.	7.80
No. 4½—Lgth, 10 Ins. Cut, 2⅜ Ins. Wt., 4¼ Lbs	9.00

One in a box.

SMOOTH, CORRUGATED BOTTOM

	Each
No. 2 C—Lgth., 7 Ins. Cut, 1¼ Ins. Wt., 2½ Lbs	$6.80
No. 3 C—Lgth., 8 Ins. Cut, 1¾ Ins. Wt., 3½ Lbs.	7.10
No. 4 C—Lgth., 9 Ins. Cut, 2 Ins. Wt. 3½ Lbs.	8.40
No. 4½C—Lgth., 2¼ Ins Cut, 2⅜ Ins. Wt., 4¼ Lbs.	9.00

One in a box

JACK

Nos. 5 to 8

	Each
No. 6 —Lgth., 14 Ins. Cut, 2 Ins. Wt., 4¼ Lbs	$9.00
No. 5½—Lgth., 15 Ins. Cut, 2⅜ Ins. Wt., 6 Lbs.	10.00

FORE

No. 6 —Lgth., 18 Ins. Cut, 2⅜ Ins. Wt., 7¼ Lbs. $11.50

JOINTER

No. 7 —Lgth., 22 Ins. Cut, 2⅜ Ins. Wt. 7¼ Lbs. $13.00
No. 8 —Lgth., 24 Ins. Cut, 2⅜ Ins. Wt. 9 Lbs. 15.60

One in a box.

JACK

	Each
No. 5 C—Lgth., 14 Ins. Cut, 2 Ins. Wt., 4¼ Lbs	$9.70
No. 5½C—Lgth., 15 Ins. Cut, 2⅜ Ins. Wt.	10.85

FORE

	Each
No. 6 C—Lgth., 18 Ins. Cut, 2⅜ Ins. Wt. 7¼ Lbs.	$12.40

JOINTER

No. 7 C—Lgth., 22 Ins. Cut, 2⅜ Ins. Wt., 7¼ Lbs.	$14.14
No. 8 C—Lgth., 24 Ins. Cut, 2⅜ Ins. Wt., 9 Lbs.	16.85

One in a box.

WOOD BOTTOM

Japanned Cast Iron Frames. Varnished Handles and Knobs Tempered and Polished Tool Steel Cutters

UNHANDLED SMOOTH

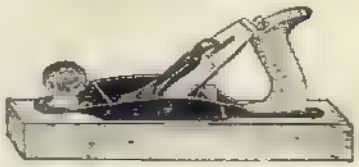
	Each
No. 22—Lgth., 8 Ins. Cut, 1½ Ins. Wt., 2½ Lbs.	$4.90
No. 23—Lgth., 9 Ins. Cut, 1¾ Ins. Wt., 2⅝ Lbs.	4.90
No. 24—Lgth., 8 Ins. Cut, 2 Ins. Wt., 2¼ Lbs.	4.80

One in a box

HANDLED SMOOTH

	Each
No. 35—Lgth., 9 Ins. Cut, 2 Ins. Wt., 3½ Lbs.	$5.40
No. 36—Lgth., 10 Ins., Cut, 5¼ Ins. Wt., 4 Lbs.	6.00

One in a box.



JACK

	Each
No. 26 —Lgth., 15 Ins. Cut, 2 Ins. Wt., 4 Lbs	$5.30
No. 27 —Lgth., 15 Ins. Cut, 2⅜ Ins. Wt., 4½ Lbs.	5.78
No. 27½—Lgth., 15 Ins. Cut, 2⅜ Ins. Wt., 4¾ Lbs.	6.15

FORE

No. 28 —Lgth., 18 Ins. Cut, 2⅜ Ins. Wt., 5½ Lbs.	$6.75
No. 29 —Lgth., 20 Ins. Cut, 2⅜ Ins. Wt., 5½ Lbs.	6.80

One in a box.

STANLEY BED ROCK PLANES

IRON, ADJUSTABLE

Japanned Iron Steel Frame. Varnished Rosewood Handle and Knob. Polished Steel Cap. Brass Adjusting Screw. Screw and Lever Adjustment. Tempered, Ground and Polished Tool Steel Cutters. Combine Utmost Solidity and Rigidity with Wide Range of Adjustment. Surfaces are so Machined to Fit Perfectly, Making it Solid. Frog is Machine Faced. Bottom Rests Solidly on Seat Formed in Plane Body. Sides Conform to Guides Formed in Plane Body, which Guides give Accuracy of Adjustment to Frog, and Prevent Possibility of Its Wobbling. By a Turn of a Screw, Plane is Adapted to Hard or Soft Wood.

SMOOTH PLAIN BOTTOM

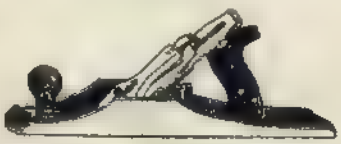
		Each
No. 602	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 2½ Lbs.	$6.75
No. 603	Lgth, 8 Ins. Cut, 1⅝ Ins. Wt., 3 Lbs.	7.30
No. 604	Lgth, 9 Ins. Cut, 2 Ins. Wt., 3½ Lbs.	7.80
No. 604½	Lgth, 10 Ins. Cut, 2⅛ Ins. Wt., 4½ Lbs.	9.00

One in a box.

CORRUGATED BOTTOM

		Each
No. 602C	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 2½ Lbs.	$6.75
No. 603C	Lgth, 8 Ins. Cut, 1⅝ Ins. Wt., 3 Lbs.	7.30
No. 604C	Lgth, 9 Ins. Cut, 2 Ins. Wt., 3½ Lbs.	7.80
No. 604½C	Lgth, 10 Ins. Cut, 2⅛ Ins. Wt., 4½ Lbs.	9.00

One in a box.



		Each
JACK		
No. 605	Lgth, 14 Ins. Cut, 2 Ins. Wt., 4½ Lbs.	$9.10
No. 605½	Lgth, 15 Ins. Cut, 2⅛ Ins. Wt., 6 Lbs.	9.80
FORE		
No. 606	Lgth, 18 Ins. Cut, 2⅛ Ins. Wt., 7½ Lbs.	$11.40
JOINTER		
No. 607	Lgth, 22 Ins. Cut, 2⅛ Ins. Wt., 7½ Lbs.	$13.20
No. 608	Lgth, 24 Ins. Cut, 2⅛ Ins. Wt., 9 Lbs.	15.55

One in a box.

		Each
JACK		
No. 605C	Lgth, 14 Ins. Cut, 2 Ins. Wt., 4½ Lbs.	$9.10
No. 605½C	Lgth, 15 Ins. Cut, 2⅛ Ins. Wt., 6 Lbs.	9.80
FORE		
No. 606C	Lgth, 18 Ins. Cut, 2⅛ Ins. Wt., 7½ Lbs.	11.40
JOINTER		
No. 607C	Lgth, 22 Ins. Cut, 2⅛ Ins. Wt., 7½ Lbs.	13.20
No. 608C	Lgth, 24 Ins. Cut, 2⅛ Ins. Wt., 9 Lbs.	15.55

One in a box.

BAILEY'S ADJUSTABLE BLOCK PLANES

WITH IMPROVED THROAT ADJUSTMENT

Cast Iron Body and Cap. Machined and Polished Face and Side. Japanned Inside. Brass Adjusting Screws. Tool Steel Cutters, Tempered, Ground and Polished. Throat Can Be Quickly Opened or Closed for Coarse or Fine Work.

REGULAR

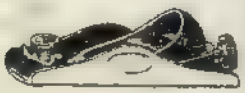
Japanned Trimmings

		Each
No. 9½	Lgth, 6 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$3.30
No. 15	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	3.70

Nickel Plated Trimmings

No. 16	Lgth, 6 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$3.70
No. 17	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	4.15

One in a box.



LOW ANGLE

Japanned Trimmings

		Each
No. 60½	Lgth, 6 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$3.45
No. 65½	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	3.70

Nickel Plated Trimmings

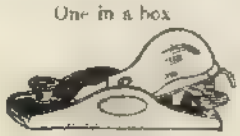
No. 60	Lgth, 6 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$3.90
No. 65	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$4.06

One in a box.

Japanned Trimmings. Length, 14 Ins. Cut, 2 Ins. Wt., 3 Lbs.

		Each
No. 62		$9.00

One in a box.



KNUCKLE JOINT

Nickel Plated Trimmings. Brass Adjusting Nuts.

		Each
No. 18	Lgth, 6 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	$4.10
No. 19	Lgth, 7 Ins. Cut, 1⅝ Ins. Wt., 1¼ Lb.	4.35

One in a box.

STANLEY BLOCK PLANES

WITHOUT HANDLE. TOY SIZE

No. 101

Japanned Cap and Sides, Ground Face. Not Adjustable

Each

No. 101—Lgth, 3¼ Ins. Cut, 1 In. Wt., ½ Lb. . . . . $ .85

Half dozen in a box.

NON ADJUSTABLE

No. 102 and 110

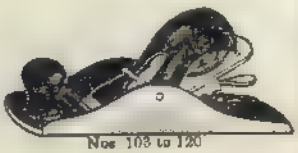
Each

No. 102—Lgth, 3½ Ins. Cut, 2¼ Ins. Wt., ¾ Lbs. $1.20

No. 110—Lgth, 7½ Ins. Cut, 1⅝ Ins. Wt., 2¼ Lbs. 1.65

One in a box.

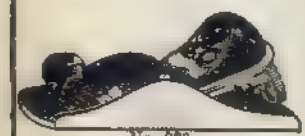
ADJUSTABLE


Nos. 103 to 120

No. 103—Lgth, 5½ Ins. Cut, 1⅝ Ins. Wt., ¾ Lb. Each $1.75

No. 120—Lgth, 7½ Ins. Cut 1⅝ Ins. Wt., 1⅝ Lb 2.40

One in a box.


No. 220

ADJUSTABLE

Ground Face and Sides. Japanned Cap and Inside. Beech Knob

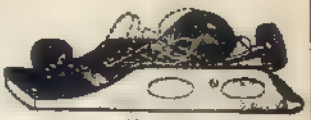
With Screw Adjustment

Each

No. 220 Lgth, 7½ Ins. Cut, 1¼ Ins. Wt, 1½ Lb.. . $2.45

One in a box.

ADJUSTABLE DOUBLE END


No. 131

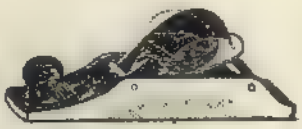
Combination Block and Bull Nose Plane Has Two Slots and Movable Cutter Seat. Use Center Cutter Seat and Slot for Ordinary Block Plane Work For Use as Bull Nose Plane Remove Cap and Cutter, Reverse Cutter Seat by Throwing Over Adjusting Wheel (see Dotted Lines in Cut) Replace the Cap and Cutter in New Position. Has "Handy" Feature, a Rosewood Knob and Cutter is Adjustable Endwise.

Each

No. 131—Length, 8 Ins. Cut, 1⅝ Ins. Wt., 1½ Lb. $4.65

One in a box.

NON ADJUSTABLE DOUBLE END



Two Slots and Two Cutter Seats. Center Seat and Slot Used for Ordinary Block Plane Work, Other Slot and Seat Used When Desired to Work Same as Bull-Nose Plane. Hardwood Knob. 8 Inches Long. 1⅝-inch Cut. Weight, 1½ Lbs.

Each

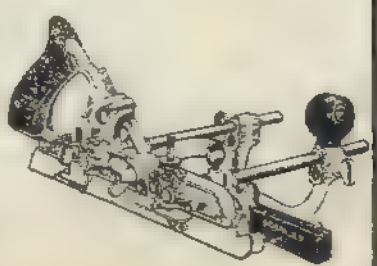
No. 130—Japanned $3.45

One in a box.

STANLEY FANCY PLANES

ADJUSTABLE BEADING, MATCHING AND RABBET

NICKEL PLATED WITH ROSEWOOD HANDLE AND KNOB



Embraces a Beading and Center Beading, Rabbet and Filletser, Dado, Plow, Matching, Superior Slitting and Sash Plane Has Seven Beading Tools ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ In Ten Plow and Dado Bits: ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ and ⅞ In Slitting Blade, a Sash Tool and Tonguing Tool Length, 11 Ins Twenty-one Cutters

Each

No. 45—Wt., Each, About 9½ Lbs. $22.50

TRAUT'S ADJUSTABLE DADO FILLETSTER PLOW, ETC.

NICKEL PLATED FRAMES, ROSEWOOD HANDLE AND KNOBS

No. 46

Complete, with Eight Plow and Dado Bits: 3/16, ¼, 5/16, ⅜, ½, ⅝, ¾ and 1¼ In A Filletster Cutter, a Tonguing Tool and a Slitting Tool Length, 10½ Inches Eleven Cutters.

Each

No. 46—Wt., Each, About 5¼ Lbs.... $15.75

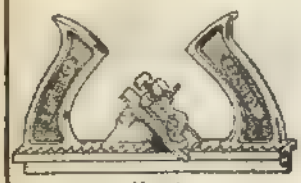
One in a box.

Note.—Nos. 45 and 46 combine main stock. Sliding sector so arranged that Cutters of Different widths can be used. Plane is fitted with adjustable fence or guide and depth gauge. Has spurs for use in working across grain. Used right or left.

STANLEY'S FANCY PLANES

DOUBLE END MATCH

NICKEL PLATED FRAME, HANDLE AND CAP



No. 148

Nickel-plated Cast Iron Frame, Handles and Caps. Tempered and Polished Tool Steel Cutters. Cuts Both Tongue and Groove. Length, 9 Inches. Size of Cutter, ¾ In. Cuts Groove ¼ Inch.

Each

No. 148—Wt., Each, Abt. 2¾ Lbs. . **$7.20**

One in a box

STANLEY RABBET AND FILLETSTER

Sides and Bottom Square with Each Other. Plane Lies Perfectly Flat on Either Side. Has Adjustable Fence which Slides Under Bottom, Regulating Width of Cut. Spur on Each Side for Working Across Grain. Also Adjustable Depth Gauge. Suitable for Right or Left-Hand Work. Front Part Easily Detached; Thus Bull-Nose Plane is Obtained. Cutter Adjustable Endwise.

Each

No. 278—6¼ Ins. Long. 1-inch Cutter . **$5.10**

ADJUSTABLE TONGUE AND GROOVE

NICKEL PLATED STOCK AND HANDLE
ROSEWOOD KNOB

Each

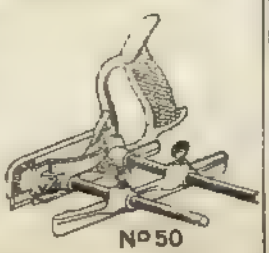
No. 48 For ¾ to 1½ In. Boards. Cuts ⅜-in Groove **$8.50**

No. 49 For ½ to ¾ In. Boards. Cuts ⅛-in. Groove **8.50**

One in a box. Wt., each, about 3½ lbs.

PLOW BEADING AND MATCHING

Used for Ordinary Beading or Center Beading. By Adjustment of Fence, Centering Can Be Done Up to 5 Inches from Edge of Board. Includes 7 Plow and Dado Bits: ⅛, 3/16, ¼, 5/16, ⅜, ½ and ¾ In. 7 Beading Cutters: ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ In. One ⅛-in. Matching Cutter.



No 50

Each

No. 50—Nickel Plated. Length, 9½ Ins. Wt., Each, About 3¾ Lbs. **$12.75**

One in a box.

SKEW CUTTER, FILLETSTER AND RABBET

Has Five Wide Cutter Set on a Skew. Fence and Depth Gauge can be Attached to either Side, so that Plane can be Used for Right or Left Hand Work. Under Bottom, Regulating Width of Cut. Rosewood Depth Gauge, Fence and Arm and Superior Rabbet Plane Obtained. In Cutter with Two Adjustable Spurs. Open End Side.

Each

No. 289—8½ Ins. Long. Japanned **$7.10**

One in a box

IMPROVED RABBET

JAPANNED IRON STOCK AND HANDLE. POLISHED FACE AND EDGE

Will Lie Perfectly Flat on Either Side. Can Be Used with Right or Left Hand while Planing into Corners or Up Against Perpendicular Surfaces. In Two Styles, One Fitted with Spur which Permits Them to be Used for Working Across Grain and Other Without a Spur. Fitted with Detachable Depth Gauge.

Each

No. 190—Length, 8 Ins. Width, 1¼ Ins., with Spur **$4.70**
No. 191—Length, 8 Ins. Width, 1¼ Ins., with Spur **4.45**
No. 192—Length, 8 Ins. Width, 1 Ins., with Spur **4.15**

One in a box.

RABBET AND FILLETSTER

No 78

Remove Arm to which Fence is Secured and Handled Rabbet Plane is Had and, with Two Seats for Cutter the Tool Can Be Used as Bull Nose Rabbet, if Required. Arm Can Be Screwed into Either Side of Stock, Making Superior Right or Left-hand Filletster, which, by Means of Adjustable Fence, is Adapted for Working Rabbets of Smallest Width. Fitted with a Spur. Can be Used for Working Across Grain when Necessary. Has Depth Gauge. 8¼ Ins. Long. 1¼ Inch Cutter. Iron Stock and Fence.

Each

No. 78 . **$5.30**

One in a box.

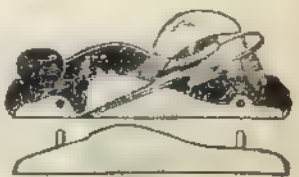
RABBET AND BLOCK

Detachable Side Changes This Tool from Block Plane to Rabbet Plane, or *vice versa*. Cutter is Set on Skew. 7 Inches Long. 1¾ In. Cutter, with Detachable Side.

Each

No. 140 . **$4.35**

One in a box.



No 140

SIDE RABBET

No 98 No 99

Convenient Tool for Side Rabetting and Trimming Dadoes, Mouldings and Grooves of All Sorts. Reversible Nose Piece Gives Tool Form by which it will Work Close Up into Corners. Each

No. 98—Right Hand. 4 Ins. Long. ½ In. Cutters. . . . **$3.15**
No. 99—Left Hand. 4 Ins. Long. ½ In. Cutters. . . . **3.15**

One in a box.

STANLEY FANCY PLANES

BULL-NOSE RABBET

Each

No. 75—4 Ins. Long, 1-in. Cutter. Wt., 1 Lb. **$1.20**

One in a box

STANLEY'S ADJUSTABLE BULL-NOSE RABBET

Is Designed for Fine Cabinet Work. Sides and Bottom Being Square with Each Other, Plane will Do Perfect Work on Either Side. Can Be Used Right or Left.

Each

No. 90—4 In. Long, 1 In. Cutter. **$6.40**

No. 90EC—Extra Cutters . . . **.75**

One in a box

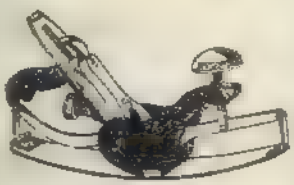
IMPROVED SCRUB

Has Single Iron with Cutting Edge Rounded. Particularly Adapted for Roughing Down Work Before Using Jack or Other Plane. 9½ Ins. Long, 1¼-in. Cut.

No. 40—Wt., 2½ Lbs. Each **$3.50**

One in a box

CIRCULAR



By Means of Graduated Scale or Gears, Iron Can Be Accurately Set to Work on Any Size Circle, Both Concave and Convex, by Turning the Knurled Nut on Front of the Plane. Case Iron Frame, Caps and Handles Tempered and Polished Steel Cutters. Polished Spring Steel Bottom. Screw and Lever Adjustments for Concave or Convex Surfaces.

Each

No. 113—Japanned, 10 Ins. Long, 1¼ In. Cut. . **$11.90**

One in a box

WOOD WORKERS' HANDY ROUTER

Nickel-plated Cast Iron Frame and Mountings. Polished Tool Steel Blade. Polished Beechwood Knobs. Smoothing Bottom and Cutting Bits can be Clamped to Back Side of Upright Post and Outside Stock for Planing into Corners or to Router Out Mortises. Length, 7½ Inches, with One Bit Each ⅜ and ½ Inch.

Open Throat. 1¼-in. Opening Clears Shavings Readily. Operator Can See Iron and Prevent Splitting or Damaging Work.

Each

No. 71—Wt., 2½ Lbs. **$6.55**

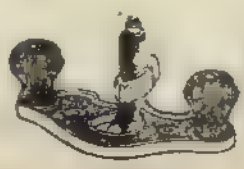
One in a box

Closed Throat. 2 x 1¼-in. Opening.

Each

No. 71½—Wt., 2 Lbs. . . . **$5.10**

One in a box.



PATENT UNIVERSAL

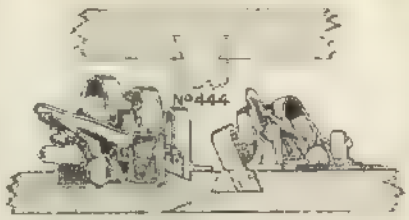
A Matching Plane, Match, Sash, Beading, Reeding, Fluting Hollow, Round, Plows, Rabbet and Filleter, Dado Slitting and Circular Plane Combined in One. Nickel plated Cast Iron Frame. Mahogany Finished Handle. Steel Adjusting Screws, with 52 Tempered, Sharpened Polished Steel Assorted Cutters. Wt., Abt. 16 Lbs.

Each

No. 55—One in a hardwood slide-cover box **$45.25**

Consists of Main Stock with Two Sets of Transverse Sliding Arms, Depth Gauge Adjusted by Screw, Slitting Cutter with Stop, Sliding Section with Vertically Adjustable Bottom, Auxiliary Center Placed in Front of Cutter, as Extra Support, or Stop, when Needed. Bottom Adjusted Both Vertically and Laterally. One Fence has Lateral Adjustment by Means of Screw for Extra Fine Work. Fences Used on Either Side of Plane. Rosewood Guides. Tilted to Any Desired Angle, Up to 45 Degrees. Other Fence Reversed for Center Beading Wide Boards. Adjustable Stop Used in Beading Edges of Matched Boards is Inserted on Left Hand Side of Sliding Section.

DOVETAIL TONGUE AND GROOVE



Dovetail Tongue and Groove Formed Where the Width of Work is More Than ¾ In. or Where Depth of the Groove is Not More Than ⅝ In. Three Sizes of Cutters Furnished for Forming Grooves. Smaller Sizes for ¾ and ⅝-in. Boards. Medium Size for ¾ and 1-in. Boards. Large Size for 1 to 2-in. Boards. One Size Cutter will Cut Any Size Tongue. Nickel-plated Frame. Length, 9½ Ins. Packed in Hardwood Box, 10½ x 5½ x 5 Ins.

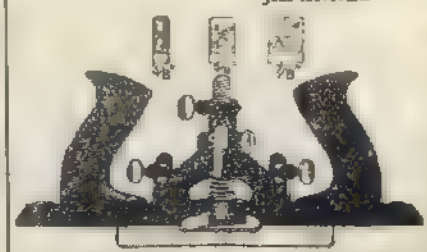
Each

No. 444—Wt., Complete, 6 Lbs. **$19.80**

One in a box. Complete directions with each plane.

DOOR TRIM

JAPANNED



Will Make Mortises for Butts, Face Plates, Strike Plates, Escutcheons, etc., up to a Depth of ⅝ and a Width of 3 Inches. Original Features—Method of Mortising. Cutter. Work Can be Instantly Set to Work from Either End of Plane or Across it. In Addition, Cutter is Cushioned by Spring Which Prevents Taking a Heavier Chip than can be Easily Carried. Fence Regulates Position of Cut and Insures Sides of Cut Being Parallel. Depth of Cut is Governed by a Positive Stop. By Removing Fence and Loosing Cutter Post with Thumb Screw Instead of Using Spring, a Very Superior Router Plane is Obtained. Bottom is Designed so that an Extra Wooden Bottom of any Size Desired can be Screwed on, Enabling User to Router on Larger Openings. Three Forged Steel Cutters, ⅛, ¼ and ⅜ Inch Wide, are Furnished with Tool.

Each

No. 171—Length, 9 Inches. Weight, 3 Lbs. **$9.50**

One in a box

EXTRA PARTS FOR STANLEY PLANES

FACTORY SHIPMENT ONLY

Prices on Request

"BAILEY" IRON PLANES.

NO.	NAME OF PART / NO. OF PLANE	1	2 2c	3 3c	4 4c	4½ c	5 5c	6 6c	7 7c	8 8c
1A	Double Plane Iron	39 39	0 39	0 42	0 42	0 42	0 42	0 42	0 42	0 42
1	Single " "	19 21	21	23	25	25	25	25	25	25
2	Plane Iron Cap	14 14	14	15	17	17	17	17	17	17
3	Cap Screw	05 05	05	05	05	05	05	05	05	05
4	Lever Cap	25 25	25	25	25	25	25	25	25	25
5	" " Screw	05 05	05	05	05	05	05	05	05	05
6	Frog Complete	35 35	35	35	35	35	35	35	35	35
7	"Y" Adjusting Lever	05 05	05	05	05	05	05	05	05	05
8	Adjusting Nut	10 10	10	10	10	10	10	10	10	10
9	Lateral Adj. Lever	10 10	10	10	10	10	10	10	10	10
10	Frog Screw " "	05 05	05	05	05	05	05	05	05	05
11	Plane Handle	20 20	20	20	20	20	20	20	20	20
12	" Knob	15 15	15	15	15	15	15	15	15	15
13	Handle Bolt & Nut	10 10	10	10	10	10	10	10	10	10
14	Knob " "	10 10	10	10	10	10	10	10	10	10
15	Plane Handle Screw					05	05	05	05	05
16	Plane Bottom	85 85	1 00	1 00	1 20	1 20	1 20	1 65	2 35	2 35
46	Frog Adj. Screw	05 05	05	05	05	05	05	05	05	05

"BAILEY" WOOD PLANES.

NO.	NAME OF PART / NO. OF PLANE	21 24 25 35	26	27	27½	28 29	30 31	32 33 34	36	37
1A	Double Plane Iron	39 39	0 42	0 42	0 45	0 47	0 48	0 45	0 50	0 48
1	Single " "	23 25	25	27	28	29	28	32	29	28
2	Plane Iron Cap	15 17	17	18	18	18	18	18	18	18
3	Cap Screw	05 05	05	05	05	05	05	05	05	05
4	Lever Cap	20 20	20	20	20	20	20	20	20	20
5	" " Screw	05 05	05	05	05	05	05	05	05	05
6	Frog Complete	30 30	30	30	30	30	30	30	30	30
7	"Y" Adjusting Lever	05 05	05	05	05	05	05	05	05	05
8	Adjusting Nut	10 10	10	10	10	10	10	10	10	10
9	Lateral Adj. Lever	10 10	10	10	10	10	10	10	10	10
10	Frog Screw & Bush'g	10 10	10	10	10	10	10	10	10	10
11	Plane Handle	10 10	10	10	10	10	10	10	10	10
12	" Knob	10 10	10	10	10	10	10	10	10	10
13	Handle Bolt & Nut	10 10	10	10	10	10	10	10	10	10
14	Knob " "	10 10	10	10	10	10	10	10	10	10
15	Plane Bottom	40 40	50	50	50	70	70	65	50	70
17	Top Casting	20 20	20	20	20	20	20	20	20	20

"RED ROCK" PLANES.

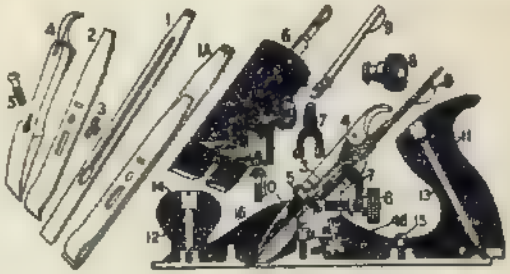
NO.	NAME OF PART / NO. OF PLANE	602 C	602½ B	604 C	604½	606 C	606½	606 C	607	608 B	608 C
1A	Double Plane Iron	39 39	0 39	0 42	0 48	0 48	0 48	0 47	0 48	0 49	0 59
1	Single " "	21 22	25	28	28	28	28	28	28	32	32
2	Plane Iron Cap	14 15	17	19	17	19	19	18	18	18	18
3	Cap Screw	05 05	05	05	05	05	05	05	05	05	05
4	Lever Cap	30 30	30	30	30	30	30	30	30	30	30
5	" " Screw	05 05	05	05	05	05	05	05	05	05	05
6	Frog Complete	50 50	50	50	50	50	50	50	50	50	50
7	"Y" Adjusting Lever	05 05	05	05	05	05	05	05	05	05	05
8	Adjusting Nut	10 10	10	10	10	10	10	10	10	10	10
9	Lateral Adj. Lever	10 10	10	10	10	10	10	10	10	10	10
11	Plane Handle	20 20	20	20	20	20	20	20	20	20	20
12	" Knob	15 15	15	15	15	15	15	15	15	15	15
13	Handle Bolt & Nut	10 10	10	10	10	10	10	10	10	10	10
14	Knob " "	10 10	10	10	10	10	10	10	10	10	10
15	Plane Handle Screw				05	05	05	05	05	05	05
16	Plane Bottom	1 10 1 25	1 25	1 50	1 80	1 80	2 20	2 20	3 10	3 80	3 80
44	Frog Pin	10 10	10	10	10	10	10	10	10	10	10
45	Frog Clamping Screw	05 05	05	05	05	05	05	05	05	05	05
46	Frog Adjusting Screw	05 05	05	05	05	05	05	05	05	05	25

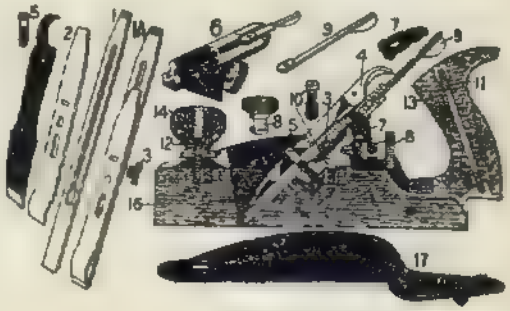
"BAILEY" AND STANLEY BLOCK PLANES.

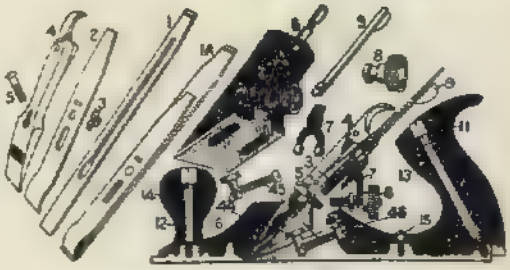
NO.	NAME OF PART / NO. OF PLANE	9½ 9¾	15 15½	16 17	18	19	50	60½	61	65	65½
1	Single Plane Iron	30 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17	0 17
4	Lever Cap	10	10	15	20	20	15	10	15	15	10
5	" " Screw	05	05	05	05	05	05	05	05	05	05
6	Frog Complete						10	10	10	10	10
7	Adjusting Lever	05	05	05	05	05					
8	Adjusting Nut	10	10	10	10	10	10	10	10	10	10
9	Lateral Adj. Lever	10	10	10	10	10					
11	Plane Handle	25	25								
12	Plane Bottom	70	75	75	75	75	60	60	40	75	75
21	Eccentric Plate	10	10	10	10	10	10	10	10	10	10
22	Finger Rest Knob	10	10	10	10	10	10	10	10	10	10

STANLEY BLOCK PLANES.

NO.	NAME OF PART / NO. OF PLANE	100 101	102	103	110	120	130	131	140	203	220
1	Single Plane Iron	30 95	0 10	0 10	0 13	0 17	0 13	0 17	0 20	0 20	0 17
4	Lever Cap	05	10	10	10	10	10	10	15	10	10
5	" " Screw								05	05	05
6	Frog Complete					10			10	10	10
8	Adjusting Nut								10	10	10
12	Plane Knob				10	10	10	10	10	10	10
16	Plane Bottom	10	15	20	25	30	35	70	75	55	30
18	Detachable Side								25		
19	Side Screw (Pair)								10		







Not Carried in Stock. Can Only be Furnished by Shipping Direct From Factory

PLANE IRONS

In Ordering Always Give the Make and Number of Plane for which They are Wanted

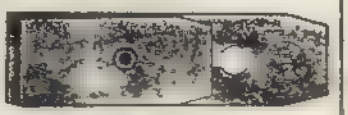
AMERICAN

BEST STEEL. WARRANTED

Single Cut

No. 100—Cut, Ins.	2	2¼	2½	2¾	2¼
Wt., Per Doz., Lbs.	6½	6¾	7	7⅓	8¼
Per Dozen	$3 15	3 35	3 70	4 10	4.50
	$6.30	7.40	8.15	9.00	9.90

Double



No. 101—Cut, Ins.	2	2¼	2½	2¾	2¼
Wt., Per Doz., Lbs.	9	9½	11	11½	12½
Per Dozen	$6.45	6.65	7 00	7.40	8.20
	$14.20	14.65	15.40	16.40	18.05

Half dozen in a box.

No. 10

STANLEY AND BAILEY

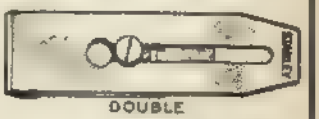
FOR "BED ROCK" AND "BAILEY" IRON AND WOOD PLANES

SINGLE

Single Cut

No. 200—Cut, Ins.	1¾	2	2¼	2½	2¾
Wt., Per Doz., Lbs.	2½	3½	3¾	4½	4¾
Each	$ 23	25	27	.29	.32
	$ .80	.80	90	1.00	1.05

Double



DOUBLE

No. 201—Cut, Ins.	1¾	2	2¼	2½
Wt., Per Doz., Lbs.	4½	5½	6	7½
Each	$ 38	.42	.45	.48
	$1.25	1.40	1.50	1.65

ADJUSTABLE

Block

		Per Dozen
No. 1—1-in	For Plane No. 101	$ 3.00
No. 3—1⅛-in.	For Plane No 102	3.35
No. 4—1⅛-in.	For Plane No 120	6.70
No. 5—1⅛-in.	For Plane Nos 110 and 130	5.65
No. 6—1⅛-in.	For Plane Nos 9½, 9¾, 15, 16, 17, 18, 19 65, 65¼, 131 and 220 Planes	6.70

Half dozen in a box.

FLOOR SCRAPERS

STEARNS

Scraper is Intended for Use on Large Surfaces. Knife, which is 6 Ins. Wide, Scrapes Floor when the Machine is Drawn Toward Operator, and will Therefore Work Up to Wall and Into Corners. Knife is Firmly Clamped in Scraper, which, Together with Weight of Machine, Prevents Vibration or Chatter, Doing Away with All Wavy Effects on Floor. 5-in Wheels are Rubber Tired so as Not to Mar the Floor.

	Each
No. 10—Finished in Aluminum. Length of Handle and Braces, 38½ Ins. Weight, 135 Lbs.	$ 23.00

One in a case.

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

Headquarters for Bicycles and Sundries

See Separate Catalog

FLOOR AND CABINET SCRAPERS

STANLEY'S ADJUSTABLE VENEER

Cast Iron Frame. Polished Face and Outsides. Brass Adjusting Screws. 11-inch Rosewood Handle.

Iron Face. 6½ Ins. Long. 3-in. Scraper

	Each
No. 12	$7.85

One in a box.

Wood Face. 6½ Ins. Long. 3-in. Scraper.

	Each
No. 12½	$10.65

One in a box.

	Each
No. 12EC—Extra Scrapers or Blades for Nos. 12 and 12½	$ .65

Half dozen in a box.

IRON FACE CABINET

Blade May be Sprung to Slight Curve by Tightening Thumb Screw, which is of Advantage in Some Places.

Blade 2¼ Ins. Length, Over All, 11 Ins. Japanned, Cast Iron Frame. Raised Handles. Tempered Tool Steel Blade.

	Per Dozen
No. 80	$ 25.20

One in a box.

	Each
No. EB80—Extra Blades for No. 80 Scraper	$ .55

Half dozen in a package. Weight, per dozen, about 1 lb.

ADJUSTABLE WOOD

Adjustable to Any Pitch. Can be Moved Forward or Backward. Roller Acts as Support to Relieve Strain on Wrist. Blade, 2¾ Ins. Length, Over All, 9¾ Ins. Japanned. **Cast Iron Frame.** Polished Maple-wood Handles.

	Per Dozen
No. 83—Wt., Per Doz., About 18 Lbs.	$ 25.00

One in a box.

STANLEY HANDLED

Rosewood Face. Handles are Raised to Protect Hands, and Pierced so that Tool can be Hung Up Out of Way when Not in Use. Body and Handles Cast in One Piece.

	Each
No. 81—Nickeled. 10 Ins. Long. 2½-in. Blade	2.90

One in a box.

FLOOR AND CABINET SCRAPERS

STANLEY SINGLE HANDED CABINET

Gives Natural and Easy Position to Hands and Balances Well in Working. Tilting Device Permits Cutter to be Easily and Quickly Adjusted to Any Angle Required. Cutter Stop Screws can be Adjusted to Hold Narrow Cutters, and Prevent Their Slipping Back while Working, and will Also Permit of Cutter Being Held Without Chattering, Even Pushed Out on Either Side so as to Work in Corners Close to Uprights. Japanned Cast Iron Frame and Handle Shank, Polished Maplewood Handle and Knob. Length, Over All, 14½ Ins. 3-in. Tool Steel Cutter. Weight, Per Dozen, About 20 Lbs.

	Per Dozen
No. 82	$25.50

One in a box.

BENNETT'S ADJUSTABLE

Handle Adjustable to Any Desired Angle. Requires No Special Blade and Blade can be Used to Last Half Inch. Polished Hardwood Handle and Grip. Cast Parts are Nickel Plated. Nickel Plated Adjusting Screw. Japanned Ferrule. Cast Steel Blade, 4½ x 3 Ins. Nickel Plated Trimmings. Length, Over All, 11 Ins. Weight, Per Dozen, About 19 Lbs.

	Per Dozen
No. 833	$18.00

Two in a box.

HAND BEADERS

STANLEY UNIVERSAL

Nickel Plated, Cast Iron Frame and Handles. Tempered and Polished Tool Steel Blades. Fitted with Gauges for Flat or Oval Work. For Beading, Reeding or Fluting Straight or Irregular Surfaces and for All Kinds of Light Routing. With 6 Blades, Cut at Both Ends to ⅛ to ½ In. Cut and 1 Blank, ½ In. Wide. Length, Over All, 10 Ins. Weight, Per Dozen, About 15 Lbs.

	Per Dozen
No. 66—One in a Box	$25.30

BELT MAKERS' PLANES

STANLEY

Japanned Cast Iron Frame. Polished Face. 11-in. Applewood Handle. Designed for Chamfering Down Laps of Belt Before Fastening Together. Bottom is Fitted with a Moveable Front, by Means of which Width of Mouth or Cutter Opening Can be Accurately Adjusted. Cutter has a Screw Adjustment to Regulate Depth of Cut.

	Each
No. 11—5½ Ins. Long. 2⅛-in. Cutter	$6.90

One in a box.

ADJUSTABLE SCRAPER PLANES

STANLEY

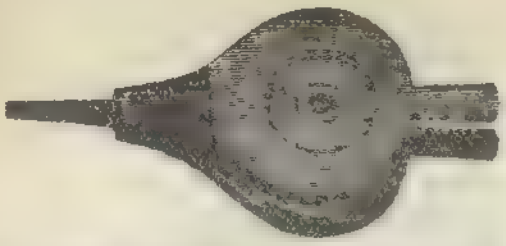
Cast Iron Frame, Polished Face and Outsides. Japanned Cap and Inside. Brass Adjusting Screw. Rosewood Handle and Knob. Polished Tool Steel Blade.

	Each
No. 112—Length, 9 Ins. Width of Scraper, 3 Ins.	$6.90
No. EPB—Extra Scraper Blades	.70
No. ETB—Extra Toothed Blades 22, 28 or 30 Teeth to Inch	1.00

One in a box.

BELLOWS

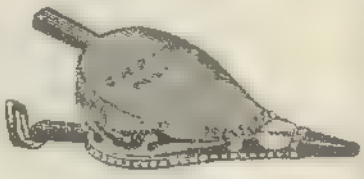
HAND



For Starting Household Fire, Blowing Dust Out of Pianos, Machinery, etc. Hardwood Boards with Extension Handles and Leather Loops. Rough Leather Sides or Folds. Plain Leather Edge Strips. Tinned Sheet Steel Funnel.

Nos.	6½	7⅛	8½	9½
Width, Ins.	6¼	7¼	8½	9¼
Length, Ins.	16	18	19½	21
Wt. Per Doz., Lbs.	18	18	24	28
Per Dozen				

MOLDERS'



Hardwood Boards, Extension Handles with Leather Loop for Fastening. Galvanized Sheet Steel Funnel. Rough Leather Sides or Folds, with Leather Strips Tacked on Leather Covered Nose, Studded with Tacks, Leather Valve.

Nos.	M8	M9	M10	M12
Width, Ins.	9	9	10	12
Length, Over All, Ins.	16	18	20	24
Wt., Per Doz., Lbs.	25	29	33	45
Per Dozen				

WELDING COMPOUNDS

CLIMAX WELDING COMPOUND TRADE MARK REGISTERED AUG. 22 1905

	Per Pound
No. C1—4 Lb. Boxes	$ .30
No. C5	

BORAX-ETTE

	Per Pound
No. BE1—1 Lb. Boxes	$ .10
No. BE5—5 Lb. Boxes	.20

BORAX-ETTE FOR STEEL TRADE MARK REG. 1905 A PERFECT WELDING FLUX PREPARED ESPECIALLY FOR WELDING FAR SUPERIOR TO COMMON BORAX

No. BE1 and BE5

Loose

IRON to IRON — Cherry Heat Welding Compound — STEEL to STEEL

TRADE MARK REGISTERED AUG. 22 1905

And MALLEABLE Iron to Steel

CHERRY HEAT

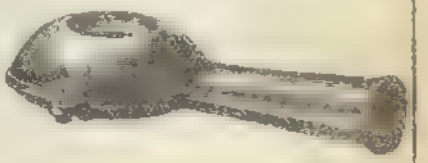
Perfect Welding Compound. In 5 Lb. Boxes. Welds Iron and Steel at Low Heat. Welds Iron to Iron, Steel to Steel and Iron to Steel.

	Per Pound
No. CH5	$ .50

TUYERE IRONS

DUCK NEST

Single Faced. Plain Cast Iron Head and Neck. Bolted Both Sides. Opened by Unfastening Bolts.



Wt., 12 Lbs. Diam. of Head, 8¼ Ins. Hole in Head, 1 Ins. Opening at Neck, ¾ Ins. Lgth., over all, 14 Ins.

	Each
No. 0—Split Neck	$1.60

Wt., 16 Lbs. Diam. of Head, 9 Ins. Hole in Head, 3 Ins. Opening at Neck, 2¼ Ins. Lgth., Over All, 14 Ins.

	Each
No. 1—One-piece Neck	$2.20

Loose

"X" BOILER LIQUID

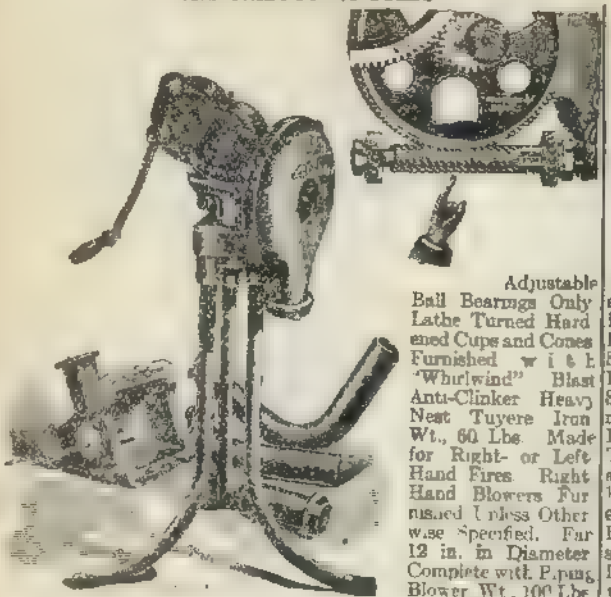
Prices on Request

This New Scientific Discovery Finds and Repairs Automatically and Permanently Leaks and Cracks in Steam and Water Boilers Without Welding, Dismantling or Shutting Down System. Doubles the Life of Any Boiler or Hot Water Heating System. Does Not Evaporate or Lose Its Strength with Age. U. S. Government War Department Uses It

	Per
No. 600—Quart Cans	$
No. 1000—Half Gallon Cans	

CHAMPION BLACKSMITHS' BLOWERS

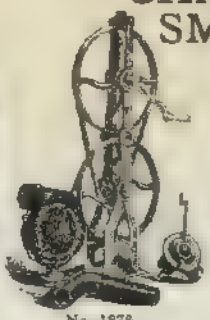
THE FAMOUS 400 STEEL



Adjustable Ball Bearings Only Lathe Turned Hardened Cups and Cones Furnished with "Whirlwind" Blast Anti-Clinker Heavy Nest Tuyere Iron Wt., 60 Lbs. Made for Right- or Left Hand Fires. Right Hand Blowers Furnished Unless Otherwise Specified. For 12 in. in Diameter Complete with Piping, Blower Wt., 100 Lbs.

No. 400 . . . Each **$63.00**

Cast Iron Base and Standard. Adjustable Fan Casing Counterbalanced Fan Crank. Crank Turns in Either Direction to Make Blast



No. 1876

Snail Shape Built for High Speed and High Pressure Blast. Built with a Hammered Steel Shaft, Phosphor Bronze Bearings, Self-aligning, Commutator of Hard Drawn Copper with Twenty-four Bars and Large Fist Brushes and Silk-covered Wire of the Best Insulation Universal Motor for Both Direct and Alternating Current Either 110 or 220 Volts with Detached Pressure for Six Speeds Attachment Cord and Plug to Fit Any Light Socket. Can be Installed Without Expense. Steel Pressure Fan Case, for All Kinds of General Blacksmith Work

No. 50—Weight 55 Lbs . Each **$84.00**

CHAMPION BLACKSMITHS' BLOWERS

CENTENNIAL CRANK

With Patented Ball Joint, Oscillating Bearings. Requires Oiling but Once in Six Months. Blast Wheel Closed on Both Sides with Sheet Steel. Cast Iron Standards. Base and 21-in. Fly Wheels. Height 54 Ins. Size of Base Plate, 12 x 24 Ins. 16-in. Fan, Fly Wheels, with Ball Tuyere Iron and Piping Complete. Wt., 165 Lbs.

No. 1876 . . . . Each **$44.50**

ONE FIRE VARIABLE SPEED ELECTRIC STEEL PRESSURE

"MIDWAY" SPIRAL-GEARED

Gearing Runs in Oil in a Dust-proof Casing. Height, Over All, 46½ Ins. Diameter of Base Plate, 17 Ins. Construction and Without Small Gears or Pinions. 12-in. Fan, Supplied with 50 Lb. Center Blast, Heavy Nest Ball Tuyere Iron and Piping Complete. Wt., 150 Lbs.

No. 70 . . . . Each **$56.00**

No. 70

No. 40

CHAMPION LANCASTER GEARED

Supplied with Champion Adjustable Nozzle Tuyere Iron. Runs Smoothly. Height, Over All, 46 Ins. Diameter of Base, 17 Ins. 12-in. Fan, with Tuyere Iron and Piping Complete. Wt., Each, 110 Lbs.

No. 4000 . . Each **$40.00**

CHAMPION BLACKSMITHS' FORGES

IMPERIAL

Lever Motion is a Simple Device, Self-acting Ratchet. The Three Self-acting Ratchet Dogs are Made of Hardened Tool Steel. Fan has a Direct Blast into Fire and will Produce a Large and Steady Blast for Heavy and All Kinds of Blacksmiths' Work. For Light Repair Work, for Jewelers, Bicycle Repairers and Making Repairs on Boilers, Bridges, Etc. Four Bent Tubular Steel Legs.

LEVER RIVET

With Shield. Hearth, 22-in. Diameter. Height, 33 Ins. Fan, 9¼-in. Diameter. Weight, 100 Lbs. Each

No. 85 . . . . . **$38.40**

TOOLMAKERS' LEVER

With Half Hood. Hearth 22 In. Diameter. Height, 33 Ins. Fan, 9¼ In. Diameter. Weight, 105 Lbs. Each

No. 86 . . . . . **$45.20**

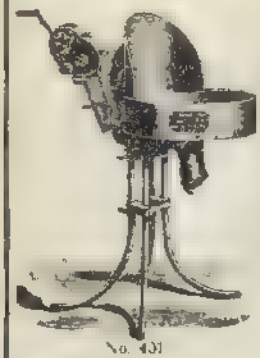
CHAMPION FORGES

AGRICULTURAL LEVER

Hearth, 22 Ins. in Diameter Fan, 9 Ins. in Diameter. Height, 30 Ins. Taper Turned, Long Bearings Ratchet Motion Type Lever, Simple and Durable.
With Shield Height 50 Ins. Weight, 90 Lbs.

Each
No. 100 .. .. $23.30
With Half Hood Weight, 95 Lbs
No. 101 $26.70

Nos. 100-10.



No. 401

STEEL RIVET

Made with Adjustable Ball Bearings Only. Heavy Pattern Pressed Steel Hearth and Wind Shield, Encased Fan and Gearing. Four Bent Tubular Steel Legs. Made of Structural Steel. High Speed Champion Spiral Gearing. Runs Noiselessly. Crank Turns Either Way to Produce the Blast. Will Weld 3½ to 4-in. Iron in Ten Minutes. Hearth, 18 Ins. Height to Top of Hearth, 30 Ins.

Each
No. 401 Fan, 9 Ins . $59.50

STEEL HORSE SHOERS

With Half Hood. Reinforced Stamped Steel Legs. Stamped Steel Bowl and Wind Shield. Ball Bearing Throughout. Creates a Strong, Regular, Positive Blast. Made from the Best Tool Steel and Phosphorus Bronze. Enclosed in an Oil-tight Casing. Blast is Produced by Turning Crank in Either Direction. Powerful Enough for All Kinds of Light and Heavy Blacksmiths Work Including the Heaviest Railroad Work. Hearth, 30 x 36 Ins. Height to Top of Hearth, 30 Ins. Fan, 12 Ins.

Each
No. 408—Weight, 250 Lbs $110.50

No. 45

LANCASTER GEARED AGRICULTURAL

Direct Drive. Strong and Light. For All Kinds of Portable Work. Has Gearing for Making Blast. Hearth, 22 Ins. Diameter. Fan, 10 Ins. With Shield Weight, 115 Lbs.

Each
No. 45 .. $46.00

AGRICULTURAL LEVER

Intended for All Kinds of Light Repair Work. Hearth, 18 Ins. in Diameter. Fan 8 Ins. in Diameter, with Taper Turned Bearings.

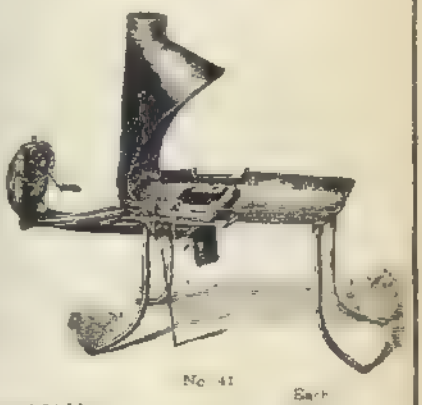
No. 150

No. 51

Each
No. 150—With Shield Weight 75 Lbs $20.00
No. 151—With Half Hood Weight 80 Lbs 22.40

LANCASTER GEARED AGRICULTURAL

Direct Drive. Strong Steady Blast. Cut Gears, Enclosed in Dust-proof Self Oiling Case. Steel Mushed Bearings. Gears and Large Heavy Pinions. Furnished with Heavy Tuyere Iron, 14 x 11½ Ins. 4 in. Peep Forge. Crank Turns Forward or Backward to Produce Blast. Hearth, 28½ x 43½ Ins. Fan, 12 Ins. in Diameter. Height, 30½ Ins. Wt., Crated, About 317 Lbs. Tank, 11½ Ins. Wide, 24 Ins. Long.



No. 41

Each
No. 41—Weight, About 54 Lbs $93.50

AGRICULTURAL CRANK

For all kinds of light repair work

Fan, 8 Ins. in Diameter. Hearth, 18 Ins. in Diameter and 4 Ins. Deep. Weight, 70 Lbs. Height, 30 Ins.

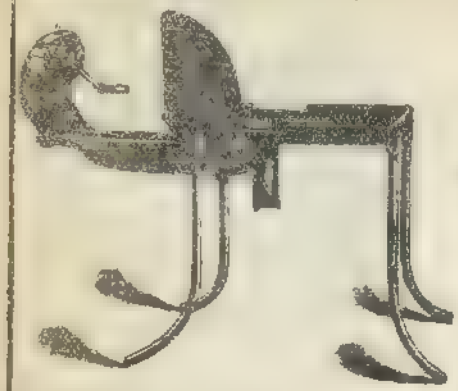
Each
No. 152—With Shield. Weight, 75 Lbs. . . $20.00
No. 153—With Half Hood. Weight, 80 Lbs. 22.40

No. 153

CHAMPION FORGES

LANCASTER GEARED AGRICULTURAL

Extra Heavy for Making Blast Direct Drive. Hearth, 23 x 35 Ins. Height, 30 Ins. Fan, 12 Ins. in Diameter.



With Shield. Wt., 165 Lbs.

No. 42 — Each $41.20

With Half Hood Wt., 170 Lbs.

No. 43 — Each $72.00

CHAMPION BLACK-SMITHS' POST DRILLS

IMPROVED 18-INCH SWING. THREE GEARS. BALL-BEARING UPRIGHT SELF-FEED

For Large or Heavy Work. Full Back Geared. Two Speeds, with Double-Journal Bearings to All Working Parts. Bearings are All Ground and Polished Out of the Solid Metal and are First-class. Table is Slotted and Planed Off on Its Top Side. Will Drill to the Center of an 18-in. Circle. Diameter of the Spindle, 1¼ Ins. Has an Up and Down Run of 5 Ins. Spindle Bored to Take in ¾-in. Straight Shank Drills.

	Each
No. 4—Weight, 200 Lbs.	$60.75
Extra for Power	5.75

CHAMPION BLACK-SMITHS' POST DRILLS

THREE GEARS. BALL-BEARING. SELF-FEED

Drills to the Center of a 16-in. Circle. Full Automatic Self-feed and Lathe-Turned Square-Slotted Table. Spindle 1⅛ Ins. in Diameter. Has an Up-and-down Run of 3½ Ins. Spindle Bored to Take ¾-in. Straight Shank Drills. Will Drill Holes Up to 1¼ Ins. Double-Journal Bearings All Through and All Bearings are Ground Out of the Solid Metal to a Working Fit.

	Each
No. 88—Weight, 130 Lbs.	$34.70
Extra for Power	7.00

IMPROVED CUT GEARED AUTOMATIC SELF-FEED BALL-BEARING

First-class for Either Power Exclusively or Hand and Power Combined. Improved Quick-return or Hand-feed Wheel is a Most Important Feature for Both Getting Bit Out of Work Quickly, or to Use as Hand-feed for Drilling Holes Up to ¾ In. The Hand-feed Wheel is of Great Value for Feeding, Especially when the Drill is Run by Power. The Rack for Raising or Lowering the Table is Very Convenient, Quick in Action and Easy to Work. It Drills to Center of a 21-in. Circle. Spindle Bored to Take in ¾-in. Straight Shank Drill Bits. Pulleys, 11 x 2½ Ins. Speed for Ordinary Work, 180 Revolutions Per Minute. Drills from 0 to 1¼-in. Feed Screw has an Up-and-down Run of 5½ Ins. Length, 65 Ins. Drill to Center, for 21-in. Circle without Pulleys.

	Each
No. 7—Weight, 400 Lbs.	$161.50
For Extra Power	7.00

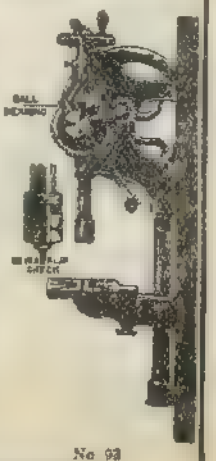
AUTOMATIC SELF-FEED

Lathe-Turned Slotted Square Table. Full Automatic Self-feed. The Bearings Ground from the Solid Metal. Fit. It Has Full Back Gear. Diameter of Spindle, 1¼ Ins. Has an Up-and-down Run of 3 Ins. Spindle is Bored to Take in ¾-in. Straight Shank Drills.

The Champion

One Speed. Drills to the Center of a 14½-in. Circle. Bores Holes Up to 1 In. Weight, 100 Lbs.

	Each
No. 90	$25.50



World's Champion

Two Speeds. Drills to Center of a 15-in. Circle. Has Double-Journal Bearings to All Gears. Bores Holes Up to 1½ Ins. Weight, 125 Lbs.

	Each
No. 93	$30.00

No. 90 — No. 93

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory in Pennsylvania

CHAMPION BLACKSMITHS' POST DRILLS

Bearings are Ground Out of Solid Metal Bored to Take in ¼-in. Straight Shank Drills.

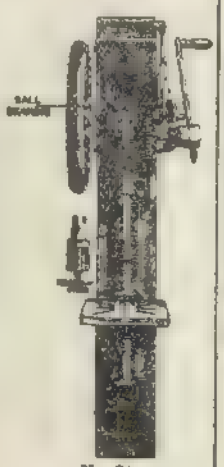
No. 92

HAND-FEED

With Drill to Center of 11 2-in. Circle and Hole ⅞ to 1-in. Slotted Table Planed Off on Top Side. Spindle Made of ¼-in. Steel. Spindle has an Up-and-down Run of 3 Ins.

Each

No. 92 Weight, 65 Lbs. **$16.00**



No. 94

QUICK-RETURN SELF-FEED

First-class, with Complete and Independent Quick Return Attachment. Must be Lifted by Hand to Unshift the Quick Return to Raise the Bit Out of the Work. Back Gears, with Two Speeds to the Crank, and Double Journal Bearings to All Gears. Spindle has an Up-and-down Run of 3 Ins. It Drills to the Center of a 15½-in. Circle. Will Drill Holes Up to 1¼ in.

Each

No. 94—Weight, 130 Lbs. **$46.70**

QUICK-RETURN SELF-FEED

Lever is Thrown into Place while the Drill Contours in Motion, where it Remains Until the Bit is Raised Out of the Work, when it Automatically Stops. Back-Geared with Improved Third-Gear Principle. The Crank has a Forward Motion on Both First and Second Speed, the Third Gear Being Part of the Handle Hub and Only in Use as a Gear when on the Second Speed, thus Pulling Along an Intermediate or Third Gear while Working the First Speed. Drills to the Center of 15½-in. Circle. All Gears are Protected with Double Journal Bearings. Bearings are Ground to a Working Fit Out of the Solid Metal. It has Two Speeds. Will Drill from ⅞ to 1¼-in. Hole. Spindle Bored to Take in ¼-in. Straight Shank Drills.

Each

No. 96—Weight, 135 Lbs. **$42.00**

Nos. 92, 94, and 96 Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory in Pennsylvania.

BENCH DRILLS

No. 208

MILLER FALLS

Frame and Large Gear Painted Gray. Red Trimmings. Hand Feed, Operated by Raising Table with Ratchet Lever. Has Ball Thrust Bearing. Pinion of Steel. Chuck of Star Pattern, Holding Round Shanks from 0 to ¼-in. Jaws Operated by Springs that are Protected. Height, Over All, 18 Ins. Maximum Distance from Chuck to Table, 4½ Ins. Speed of Gears, 3½ to 1. Weight, Each, 7½ Lbs.

Each

No. 208 ... **$16.25**

No. 210

Frame Finished in French Gray. Red Trimmings. Large Gear Enameled Black with Red Stripe. Strong Cast-Iron Standard. Hand Feed. Instantly Changeable Speed, 1½ to 1 and 4 to 1. Adjustable Crank, Extensible from 3 to 6 Ins. in Radius. Table with Swivel Arm, May be Raised within Range of 2 Ins. Wrench to Fit All Nuts on the Tool. Maximum Distance from Chuck to Table, 9 Ins. Height, Over All, 24 Ins. Star Pattern Chuck. Holding Round Shanks from 0 to ¼-in. Jaws Operated by Springs which are Protected.

Each

No. 210 ... **$22.50**

One in a box

No. 8

GOODELL'S

Cut Gears. Adjustable Table. Chuck Holding Drills Up to ½ In. Height, 13 Ins. from Table. With 8 Drill Points.

Each

No. 8. 35 00 **$10.65**

GOODELL'S

Upright Shaft. Cut Gears. Chuck Holding Drills Up to ½ In. Adjustable Table. Two Speeds. 24 Ins. Long.

No. 10

Each

No. 10 ..... $15 00 **$28.00**

One in a box

BENCH DRILLS

YANKEE

At Top of Feed Screw is a Ratchet which Feeds when Lever is Horizontal. On the Inside is a Friction Feed which Operates when Lever is Vertical. Friction Feed is Adjusted to Work Quickly in Moving Drill to and from Work. The Automatic Ratchet Feed is Positive, Fixed and Without Adjustment so that Drills will not be Broken in Use. A Bracket at Top of Frame, with Right and Left Arms, Disengages the Ratchet Feed at Extreme Up or Down Movements of Spindle, so that Parts Cannot be Jammed. Malleable Iron Frame and Crank. Cast Steel Chuck and Spindle. Machine Cut Gears. Japanned Finish.

One Speed.

No. 1003

Geared (40 to 14). Small Lever on Arm to Left of Spindle Locks Spindle Fast to Open and Close Chuck. Nickel-plated Chuck, 1¼ Ins. Long, with Three Tool Steel Jaws to Hold Round Shank Drills Up to ½-in. Traverse of Spindle is 1½ Ins. Steel Feed Screw Fitted with Ball Bearings at Lower End. Table on Bracket has an Independent Movement of 1½ in. by Means of a 3-in. Hand Wheel and Screw at Top. Feed Screw is a Ratchet which Feeds when Lever is Horizontal; on Inside is a Friction Feed which Operates when Lever is Vertical. Height of Drill, Over All, 18¾ Ins. Diameter of Table, 4½ Ins. Its Center 2½ Ins. from Face of Shoe. Weight Each, 10½ Lbs.

	Each
No. 1003	$17.50

Two Speeds

No. 1005

Cast Steel Chuck and Spindle Nickel Plated. 2¾-in. Chuck, 1⅛-in. Diameter, with Three Steel Jaws to Hold Round Shank Drills Up to ½-in., the Traverse of Spindle is 2 Ins. Steel Feed Screw, Square Thread Ball Bearings at Lower End. Crank is 6 Ins. Between Centers. Table on Bracket has an Independent Movement of 1¾ Ins. by Means of a 4½-in. Hand Wheel and Screw, and can be Used for Feeding in Emergency in Addition to Automatic Feed. Height of Drill, Over All, 28 Ins. Diameter of Table, 6¾ Ins. Its Center 3¼ Ins. from Face of Slide. Weight, Each, 29 Lbs.

	Each
No. 1005	$28.80

One in a wood box.

CHAMPION

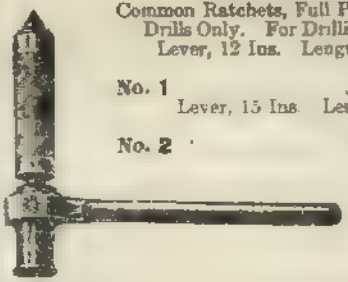
Has Adjustable Bed Plate. Height, 20½ Ins. Drills Up to ½-in. Feed has an Up-and-down Run of 3½ Ins. The Crank can be Lengthened or Shortened. The Feed is Easily Operated. Takes ½ Round or Square Shank Drills Bits. Two Chucks are Furnished with the Drill, when Specially Ordered. When not Specially Mentioned the Drill is Supplied with a Round Chuck Only. Either Round or Square Chuck can be had with the Drill Regularly.

	Each
—Weight, 34 Lbs.	$18.00

One in a box.

RATCHET DRILL STOCKS

Common Ratchets, Full Polished. For Square Shank Drills Only. For Drilling Iron or Steel by Hand. Lever, 12 Ins. Length of Head, 7¼ Ins.



	Each	
No. 1	$9.00	$12.00

Lever, 15 Ins. Length of Head, 8¾ Ins.

	Each	
No. 2	$10.50	$14.50

No. 3—Lever, 20 Ins. Length of Head, 9 Ins. Each $12.00 $16.60

One dozen in a wooden box.

PIPE CUTTERS

BARNES: THREE WHEEL

Hardened Steel Screw and Frame. Forged Jessop Steel Cutters Tempered and Ont Finished. Japanned Iron Handles.

Cuts ⅛ to 1 In. Pipe. Length, 13 Ins. Wt., 3 Lbs.

	Each	
No. B1	$4.50	$5.40

Cuts ⅛ to 2 In. Pipe. Length, 16 Ins.

	Each	
No. B2—Wt., 5 Lbs.	$6.00	$7.20

Cuts 1½ to 3 In. Pipe. Length, 21 Ins. Wt. 8¾ Lbs.

	Each	
No. B3	$10.00	$12.00

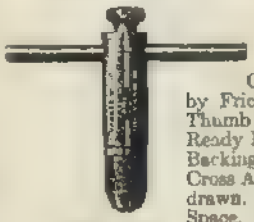
Loose.

Wheels Only

Nos.	1	2	3	4
Each	$.40	.50	.65	.80

YANKEE RATCHET TAP WRENCHES

RIGHT AND LEFT HAND AND RIGID


No. 250 and 251

Crossbar is Held Central by Friction Device. Knurled Thumb Piece at Top Affords Ready Means of Starting in and Backing Out the Tap Quickly. Cross Arm can be Readily Withdrawn. Occupies very Little Space. Ratchet and Pawls made of Tool Steel, Hardened and Tempered. Chuck has Hardened Steel Jaws.

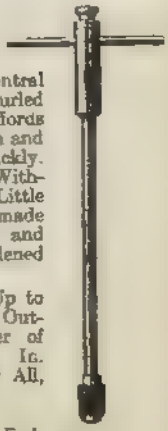
Holds Up to ¼-in. Taps. Outside Diameter of Chuck, ¾ In.

	Each	
No. 250—Length, Over All, 3½ Ins.	$2.70	

Holds Up to ⅜-in. Taps. Outside Diameter of Chuck, ¾ In.

	Each	
No. 251—Length, Over All, 5 Ins.	$3.80	

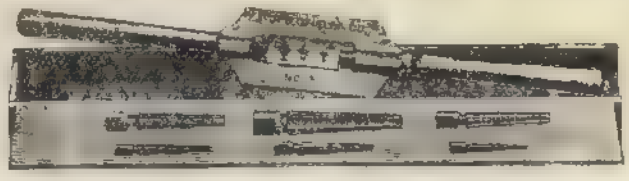
Holds Up to ⅜-in. Taps. Outside Diameter of Chuck, ¾ In. Length, Over All, 13 Ins.


No. 1251

	Each	
No. 1251	$4.80	

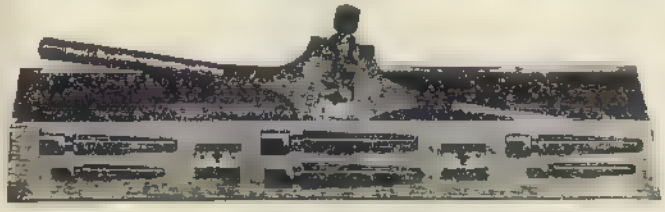
BLACKSMITHS' STOCKS AND DIES

Fine Tool Steel



						Each	
No. 23	3 Sets of Dies.	3 Taps	Cuts 1 to ½ In.	Right Hand	9, 10, and 14 Threads to the Inch.	$5 00	$8.50
No. 34	3 Sets of Dies	3 Taps	Cuts ¼ to ⅞ In	Right Hand	10, 12, and 16 Threads to the Inch	4 50	7.65
No. 34/A	3 Sets of Dies.	3 Taps	Cuts ¼ to ⅞ In	Right Hand	10, 12, and 14 Threads to the Inch	4 50	7.65
No. 35	2 Sets of Dies.	2 Taps	Cuts ½ to 1 In	Right Hand	10 and 14 Threads to the Inch.	4 00	7.00
No. 37	3 Sets of Dies.	6 Taps	Cuts ⅜ to ⅞ In	Right Hand	14, 18, and 22 Threads to the Inch	4 25	7.20
No. 41	3 Sets of Dies	6 Taps	Cuts ½ to 1 In	Right Hand	16, 20, and 26 Threads to the Inch	3.25	5.50
No. 42	3 Sets of Dies	6 Taps	Cuts ½ to ⅞ In	Right Hand	14 and 20 Threads to the Inch and ½ to ⅞ In. Left Hand, 14 Threads to the Inch	3 50	6.35
No. 53	4 Sets of Dies.	4 Taps.	Cuts ⅞ to ⅞ In	Right Hand	16, 20, 24 and 32 Threads to the Inch	2 75	4.65
No. 58	3 Sets of Dies.	4 Taps.	Cuts ⅞ to ⅞ In	Right Hand.	18, 24 and 32 Threads to the Inch	2 50	5.50

One in a package.



No. 51

3 Pairs of Dies. 6 Taps. Cuts ½ to ⅞ In. Right Hand 14, 18 and 22 Threads to the Inch.

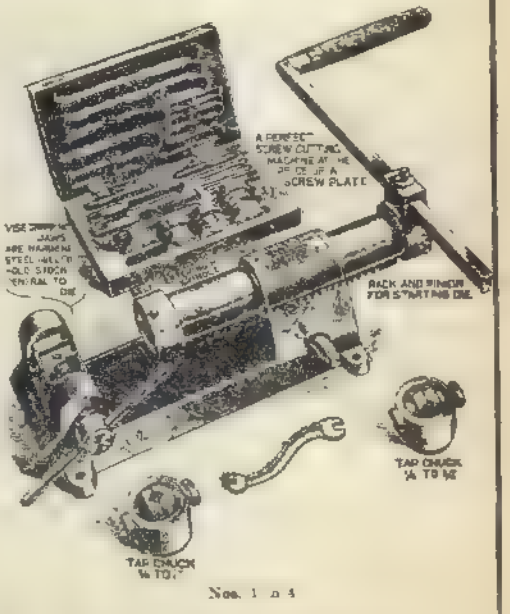
	Each	
No. 51—One in a Package	$4 50	$7.65

CHAMPION THREAD CUTTING MACHINES

A Practical Tool for Cutting Threads on Bolts or Bars of Any Length. Furnished with Dies Only, or with Dies, Taps and Tap Chucks. Will Do Quantity Jobs as Quickly as Machines Costing Ten Times the Price.

No. 1—With Dies Only Cutting, ½, ⅝, ¾, ⅞, 1, 1¼ and 1½ In. Weight, 40 Lbs.	$18.00	$46.80
No. 2—With Dies Only Cutting ½, ⅝, ¾, ⅞, 1, 1¼ and 1½ In. Weight, 45 Lbs.	22.00	57.50
No. 3—With Dies, Taps, and Tap Chuck Complete Cutting ½, ⅝, ¾, ⅞, 1, 1¼ and 1½ In. Weight, 45 Lbs.	24.00	63.00
No. 4—With Dies, Taps and Two Tap Chucks Complete, Cutting ½, ⅝, ¾, ⅞, 1, 1¼, 1½ and 1¾ In. Weight, 55 Lbs.	30.00	78.75

Can Only be Furnished by Shipping Direct from Factory in Pennsylvania.


A PERFECT SCREW CUTTING MACHINE AT THE PRICE OF A SCREW PLATE
RACK AND PINION FOR STARTING DIE
TAP CHUCK ¼ TO ⅝
TAP CHUCK ¼ TO ⅝

Nos. 1 to 4

Headquarters for Bicycles and Sundries

See Separate Catalog

PIPE STOCKS AND DIES

ARMSTRONG

With Two Stocks. For Threading Pipe and Fittings

[illegible] Malleable Iron Stock Tubular Wrought Steel Handles Tempered Tool Steel, Two Piece Dies The Dies are Adjustable to Stock to Meet any Irregularity in Size of Fittings They Have Double Taper at the Entering Threads and Will Start Work[illegible] Line or Pressure Dies can be Sharpened Without the Necessity of Returning Them to the Makers

With Single End Dies. Right Hand Threads

Four Dies and Two Handles. Threads Pipe ¼ [illegible]

No. 1 [illegible] Weight [illegible] $10.80

Five Dies and Two Handles Threads Pipe ¼, ⅜, ½, ¾ and 1 Inch

Per Set

No. 2 —Length, 35½ Ins Weight, 19 Lbs $12.00 **$14.40**

Six Dies and Two Handles Threads Pipe ¼, ⅜, ½, ¾, ¾ and 1 Inch

Per Set

No. 2B Length, 36 Ins Weight, 20 Lbs $14.00 **$16.80**

One set in a wood box

Three [illegible] and Two Handles [illegible] Pipe ¼, ½ and ¾ Ins

Each

No. 3 Length, 27 Ins Weight 33 Lbs $18.00 **$21.60**

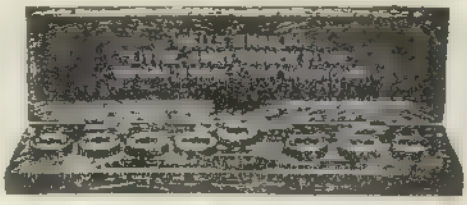
[illegible] set in a wood box

LITTLE GIANT SCREW PLATES

Two Piece Adjustable Tool Steel Tempered Dies Hardened Steel, Solid Collets Full Polished Steel Stocks and Tap Wrenches, with Knurled Handles. Tempered Steel Taps. Grained and Varnished Hardwood Case

Assortments Nos. 1, 8 and 9 Have a **Bit Brace Die Holder** Fitting All Sizes Collets in the Set

Each Assortment Has **Adjustable Tap Wrenches** for Holding All Sizes of Taps Contained in Assortment.



U S STANDARD THREAD; RIGHT HAND

Per Set

No. 3—Has Stock 26 Inches Long. Cuts ¼, ⅜, ½, ¾, 1 Inch [illegible] 16.50 **$36.30**

No. 4 Has Stock 20 Inches Long. Cuts ¼, ⅜, ½, ¾, 1 Inch [illegible] 17.50 **$38.50**

WHITWORTH OR S. A. E. THREAD FURNISHED AT SAME PRICE

Per Set

No. 6 —Has Stock 26 Inches Long. Cuts ¼, 5/16, ⅜, ½, ⅝, ¾, 1 Inch [illegible] $43.10

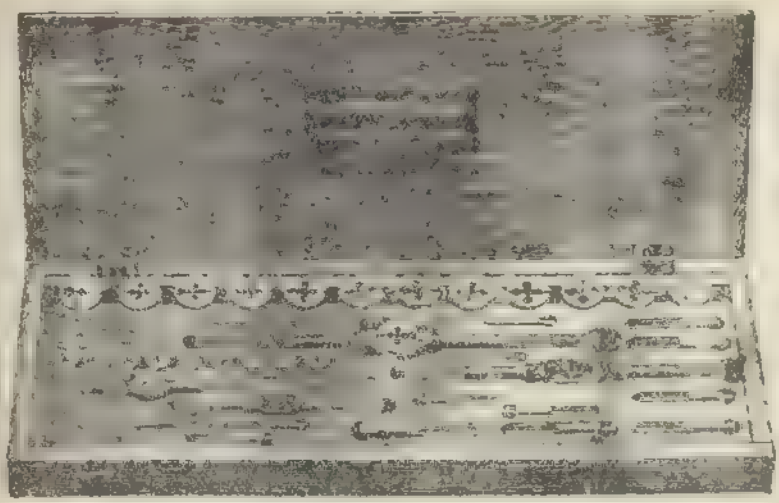
No. 7 —Has Stock 26 Inches Long. Cuts [illegible] 1 Inch [illegible] $54.10

No. 8 —Has Stock 14½ Inches Long for First Four Sizes and 26 Inch Stock for the Larger Sizes. Cuts ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ Inch. [illegible] $38.50

The 'Pennsylvania' line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

ADAMANTINE SCREW PLATES

Adjustable Solid Steel Dies. Machine Relieved Taps Motted Finished Stocks. Knurled Handles Warranted Put up in Polished Cabinets.



GENERAL PURPOSE

(THREE SCREW PLATES IN ONE)

For Lamps Speedometers, Oilers, Automobiles Motor Cycles Bicycles, Wind Shields, Starters etc Most Complete and Useful Set Offered. Contains all Regular Machine Screw Sizes from Number Two to Number Eighteen U S Standard Sizes from $\frac{1}{16}$ to $\frac{1}{4}$ Inch V Standard Threads Furnished if so Ordered, S A E (A L A M) $\frac{1}{4}$ to $\frac{1}{2}$ Inch Twenty three Taps in All There are Two Wrenches and Two Die Stocks Fitting all Taps and Dies

Cutting [illegible] 2 [illegible] 18 [illegible] Sizes [illegible] U. S. Standard [illegible] S. A. E. (A. L. A. M.) Standard

Each

No. 223 .... $32.00 **$48.00**

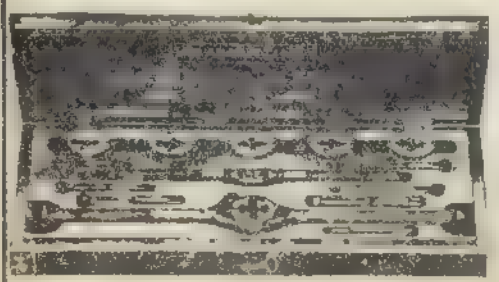
FOR FORD AND OTHER SMALL CARS

This Combination will be Found to be the Best for Either Public Garage or Private Owner's Use. The Assortment Comprises the Following

Seven Dies 1 Inch Outside Diameter
Seven Taps
Die Stock 10¼ Inches Long
Tap Wrench No. 211

Each

No. 1000—Cutting $\frac{1}{4}$-20, $\frac{5}{16}$-24, $\frac{3}{8}$-24, $\frac{7}{16}$-20, $\frac{1}{2}$-20, $\frac{9}{16}$-18, $\frac{5}{8}$-18..... $13.50 **$20.30**



FITTED WITH TAPS AND DIES

S. A. E. (A. L. A. M.) STANDARD

1¼ Inch Dies and Guides. Stock 14-Inch Long Taps. No. 211 Tap Wrench.

Each

No. 25—Cutting $\frac{1}{4}$-28, $\frac{5}{16}$-24, $\frac{3}{8}$-24, $\frac{7}{16}$-20, $\frac{1}{2}$-20..... $13.50 **$20.00**

MACHINISTS' HAND TAPS

TAPER PLUG BOTTOMING

Unless Otherwise Specified Taps to and Including ¾ inch Will Be Furnished with Shanks Full Size of Thread Larger than ¾ inch with Shanks Size of Bottom of Thread Illustration Shows Taps with Shanks Size of Bottom of Thread A Set Consists of One Each Taper, Plug and Bottoming U S Form of Thread Always Furnished Unless Otherwise Ordered

Prices on Request

No. 1040

Diam., Inches	Length, Inches	Number of Threads to the Inch: U. S Standard	Whitworth Standard	"V" Form	Each	Per Set
¼	2½	20	20	20	$ .45	$ 1.35
5/16	2 3/4	18	18	18	.50	1.50
⅜	2 11/16	16	16	16	.55	1.65
7/16	3 3/16	14	14	14	.60	1.80
½	3¾	13	12	12	.70	2.10
9/16	3 13/16	12	12	12	.80	2.40
⅝	3 11/16	11	11	11	.90	2.70
11/16	4 3/16	11	11	11	1.05	3.15
¾	4½	10	10	10	1.20	3.60
13/16	4 11/16	10	10	10	1.40	4.20
⅞	4 13/16	9	9	9	1.60	4.80
15/16	4 15/16	9	9	9	1.80	5.40
1	5¼	8	8	8	2.00	6.00
1 1/16	5 5/16	7	7	7	2.25	6.75
1⅛	5¾	7	7	7	2.60	7.80
1 3/16	6 5/16	6	6	6	3.00	9.00
1¼	6¾	6	6	6	3.50	10.50
1 5/16	6 13/16	5½	5	5	4.20	12.60
1⅜	7	5	5	5	5.00	15.00
1 7/16	7 7/16	5	4½	4½	5.80	17.40
2	7¾	4½	4½	4½	6.70	20.10

No. 1041

Diameter Inches	Number of Threads to the Inch, S. A. E. Standard	Length, Inches	Each	Per Set
¼	28	2½	$ .45	$ 1.35
5/16	24	2 3/16	.50	1.50
⅜	24	2 11/16	.55	1.65
7/16	20	3 3/16	.60	1.80
½	20	3¾	.70	2.10
9/16	18	3 13/16	.80	2.40
⅝	18	3 11/16	.90	2.70
11/16	16	4 3/16	1.05	3.15
¾	16	4½	1.20	3.60
⅞	14, 18	4 11/16	1.60	4.80
1	14	5¼	2.00	6.00
1 1/16	12	5 5/16	2.25	6.75
1⅛	12	5¾	2.60	7.80
1 3/16	12	6 5/16	3.00	9.00
1¼	12	6¾	3.50	10.50

IN GRADED SETS

FOR USE IN STEEL OR OTHER TOUGH MATERIAL

The No. 1 Tap Roughs Out the Thread, the No. 2, Being a Little Larger in Pitch Diameter, Cuts the Thread a Little Fuller, and the No. 3 Finishes the Thread to Full Size

Prices on Request

No. 1042

Diameter, Inches	Threads Per Inch, U. S. Standard	Length, Inches	Each	Per Set
¼	20	2½	$ .45	$1.35
5/16	18	2 3/16	.50	1.50
⅜	16	2 11/16	.55	1.65
7/16	14	3 3/16	.60	1.80
½	13	3¾	.70	2.10
9/16	12	4 3/16	.80	2.40
⅝	11	5	.90	2.70
11/16	11	5	1.05	3.15
¾	10	6	1.20	3.60
13/16	10	6	1.40	4.20
⅞	9	6 3/16	1.60	4.80
15/16	9	6 3/16	1.80	5.40
1	8	7	2.00	6.00
1 1/16	7	7 3/16	2.25	6.75
1⅛	7	8	2.60	7.80
1 3/16	6	8 3/16	3.00	9.00
1¼	6	9	3.50	10.50

TAPS FOR MACHINE SCREWS

A. S. M. E. STANDARD

LEFT HAND TAPS ARE SPECIAL

No. 1066 **Prices on Request**

Size of Screw Gauge Number	Approx. Diam. of Tap, Inches	Standard Threads Per Inch	Each	Per Dozen	Whole Length, Inches	Threads as follows furnished, Length as listed at 3 decimals
0	.060	80	$ .50	$6.00	1 3/32	
1	.073	72	.50	6.00	1 3/16	56, 64
2	.086	64	.45	5.40	1 3/16	56
3	.099	56	.40	4.80	1 3/16	48
4	.112	48	.40	4.80	1 3/16	32, 36 40
5	.125	44	.35	4.20	1 3/16	36, 40
6	.138	40	.35	4.20	1 3/16	32 36
7	.151	36	.35	4.20	1 3/16	30 32
8	.164	36	.35	4.20	1 3/16	30 32, 40
9	.177	32	.35	4.20	1 3/16	24 30
10	.190	30	.40	4.80	1 3/16	24 28, 32
12	.216	28	.45	5.40	1 3/16	24, 32
14	.242	24	.45	5.40	1 3/16	20
16	.268	22	.45	5.40	1 3/16	18, 20
18	.294	20	.50	6.00	1 3/16	18
20	.320	20	.50	6.00	1 3/16	16 18

We recommend the use of this standard wherever possible

It replaces the makeshift sizes heretofore used and makes possible interchangeability of Taps and Screws produced by the different manufacturers

Sizes, lengths and threads not listed are subject to special prices.

When so ordered these Taps will be furnished in sets of Taper, Plug and Bottoming forms, like Hand Taps

TAPER PIPE TAPS AND REAMERS

Prices on Request

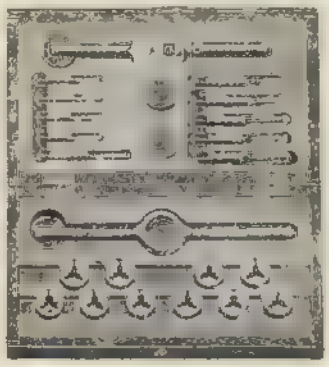
BRIGGS STANDARD

No. 101

Size, Inches.	Each	Threads Per In.	Size, Inches.	Each	Threads Per In.	Size, Inches.	Each	Threads Per In.
⅛	$1 00	27	$4 40	$8 40	11½	2½	$15 00	8
¼	1 20	18	1¼	5 00	11½	3	22 50	8
⅜	1 60	18	1½	6 00	11½	3½	30 00	8
½	2 00	14	2	10 00	11½	4	45 00	8
¾	2 80	14						

Standard Taper is ¾ inch to the Foot. Pipe Taps larger than 4 inches have inserted teeth.
Right Hand Threads always furnished unless Left Hand is specified on the order
Left Hand Pipe Taps take a different discount from Right Hand

SETS OF ROUND ADJUSTABLE DIES, TAPS, DIE STOCKS AND WRENCHES



WITH DIES ⅝ IN. DIAMETER.

COMPLETE IN A HARDWOOD CASE.

		Per Set.
Set No. 35.	Stock 5 inches long; Tap Wrench 5½ inches long; 8 Dies ⅝ inch diameter, and 6 Taps, cutting 4-16, 6-32, 8-32, 10-32, 12-24, 14-20	$4 90
Set No. 37.	Stock 5 inches long, Tap Wrench 5½ inches long; 4 Dies ⅝ inch diameter, and 5 Taps, cutting 6-32, 8-32, 10-24, 12-24	3 90
Set No. 38.	Stock 5 inches long; Tap Wrench 5½ inches long; 8 Dies ⅝ inch diameter and 6 Taps, cutting 2-56, 3-48, 4-36, 6-32, 8-32, 10-32, 12-24, 14-20	6 20
Set No. 39.	Stock 5 inches long, Tap Wrench 5½ inches long, 10 Dies ⅝ inch diameter, and 11 Taps, cutting 2-56, 4-36, 5-36, 6-32, 8-32, 10-32, 10-24, 12-24, 14-20	7 25

WITH DIES 2 INCH DIAMETER

		Per Set
Set No. 102.	U. S. Standard Sizes. Stock 22 inches long, with 7 Dies 2 inches diameter, and 7 Taper Taps, cutting ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, 9/16-12, ⅝-11.....16 00	

SETS OF ROUND ADJUSTABLE DIES, TAPS AND DIE STOCKS

WITH DIES 1⅝ INCH DIAMETER

		Per Set
Set No. 79.	Stock 12½ inches long; 5 Dies 1⅝ inches diameter, and 5 Taps, cutting ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13	$8 40

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

BOLT CLIPPERS

For Cutting Bolts, Chain, Rivets, Rods, Wire, Sheet Metal, etc.; Used by Hardware Dealers, Manufacturers, Smiths and all Handlers of Rod and Sheet Metals. Will not Cut Hardened or Tempered Steel; Do not Pry the Jaws

EASY

Japanned Malleable Iron Handles; Tempered Steel Detachable Jaws; Compound Lever Action, Rubber Buffers; Adjusted by Use of Steel Shim Plates Sent with Each Pair.

	Each
No. 1—Length 24 inches; Cuts Bolts up to 5/16 inch; Weight 4¼ lbs	$7.50
No. 2—Length 30 inches, Cuts Bolts up to ½ inch, Weight 7½ lbs	10.50

One Set of Shims and One Wrench Sent with Each Clipper

NEW EASY

Japanned Malleable Iron Handles Tempered Steel Detachable Jaws Compound Lever Action, Rubber Buffers Adjusted by Set Screw on Each Side

	Each
No. 0—Length, 18 Ins. Cuts Bolts Up to 3/16 In. Weight, 3 lbs.	$5.65
No. 2—Length, 36 Ins. Cuts Bolts Up to ¼ In. Weight, 12 lbs	13.50

NEW O. K.

All Parts Interchangeable

	Each
Capacity with Clipper Cut Jaws 5/16 In. Annealed Bolts in Thread or 7/16 In. Soft Rivets	
No. 10—Length, 10 Ins.	$3.00
Capacity with Clipper Cut Jaws ¼ In. Annealed Bolts in Thread or ⅜ In. Soft Rivets	
No. 14—Length, 14 Ins.	5.70

Loose

If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

COLDWELLS MOTOR LAWN MOWERS

Equipped With 4-Cylinder Continental Motor, Mayo Radiator and Hood and Coldwells Demountable Cutting Unit

COMBINATION ROLLER

MODEL J

Equipped with the latest up-to-date type of motor, transmission and cooling devices. All materials used throughout, workmanship and finish are of the best. The amount of weight on the rollers is just right, which has been determined by years of experience, and it is so simple that the ordinary laboring man can be taught to operate in a few hours.

Guaranteed to do the work of three men with three horse mowers. It is much lighter than any other "ride type" motor lawn mower ever manufactured.

	Model J
No.	40
Width of cut, inch	7
Length over all, feet	4
Width over all, feet	4½
Height over all, feet	15
Diameter of roller, inch	2000
Weight, lbs	On Application
Price	

LAWN MOWER AND ROLLER COMBINED

MODELS G AND H

A Lawn Mower and Roller Combined

Can be operated and cared for by ordinary laborer, and handled as easily as a hand mower. Operating handles are used for guiding the machine and raising and lowering cutter unit over obstacles. Equipped with differential gears; no brakes necessary for going down hill. Direct chain drive, friction clutch, multiple disc type. All bearings have direct lubrication from either oil or grease cups.

	Model G	Model H
Nos.	35	30
Width of cut, inch	6½	6½
Length over all, feet	4½	4–5/12
Height over all, feet	3⅝	3⅝
Diameter of drive rollers, inches	15	15
Gasoline required per hour, gals	½ to 1	½ to 1
Hill climbing ability	25% grade	25% grade
Cutting capacity per hour, acres	⅜ to 1	½ to ¾
Weight, lbs	1000	900
Price	On Application	On Application

All above, for factory shipment only.

HORSE LAWN MOWERS

*FENDEN

Four revolving blades ⅞-inch thick, made of the best knife steel, vanadium crucible analysis, oil tempered. Drive rollers, 15 inches; reel, 8 inches diameter.

Frame construction is the strongest that is possible to build and is reinforced at each end with heavy steel bars. All parts accurately machined and fitted. Equipped with the only graduated raising and lowering device, enabling the operator to instantly adjust the cutting height from ½ to 2¼ inches, or allow the knives to pass over a stone.

The bottom knife, revolving reel, and iron roller are demountable without disturbing the frame of the mower. Reel bearings turn in adjustable split brass bushings. Double riveted malleable reel braces throughout.

Fitted with a train of three gears and durable triple pawl ratchets. Reel is quickly adjusted to bottom knife.

Can be furnished with five revolving knives and bottom knife with upturned edge or lip.

Fully equipped with drivers seat, shafts and side-draft attachments.

Finish, dark green and empire red; decorations, gold.

Width of cut, inch	30	35	40
Gross weight each, lbs	645	710	760
Each	$225 00	250.00	275 00

*CRESTLAWN PONY STYLE

Four revolving knives of finest crucible steel, oil tempered and self-sharpening. Drive wheels, 11 inches high; width of cut, 30 inches; reel, 6 inches in diameter; reel axle, ¾-inch. Double riveted malleable reel braces.

Has an automatic interlocking adjustment which cannot be jarred nor twisted out of alignment. The reel has self-adjusting ball bearings.

Patented horse attachment that can be adjusted quickly and in such a manner that in operation the mower is held to the ground. The draft of the mower is just the same as when operated with the handles.

Finish, light green and gold bronze; decorations red.

Shipping weight, lbs	150
Each	$80.00

DUNHAM LAWN ROLLERS

Drums of heavy sheet steel with seams welded. Weights keep the handle in an upright position. Rollers can be filled with water or sand; when filled with sand the roller weighs about 50 per cent more than when filled with water.

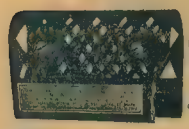
No.	WB 5
Diameter, inch	18
Length, inch	24
Sections	1
Weight, empty, lbs	85
Weight, filled with water, lbs	300
Each	$26.00

CAPITOL LAWN TRIMMER AND EDGER

Cuts every blade of grass left by the lawn mower close to the walk and fences. Cast iron wheel 8¼ inches in diameter with 1¼-inch face. Cylinder 5 inches in diameter with four crucible steel blades, hardened and tempered in oil.

Width of cut, inch	6
Extreme width, inch	13¼
Shipping weight each, lbs	20
Each	$15.00

OSBORN LAWN MOWER SHARPENER



Simple, practical and easily operated. Always ready for use. Will fit any lawn mower blade. Files made of high grade steel, with four cutting edges. Groove of sharpener follows the curve of reel blade.

To operate, place the short side of groove on the bevel side of the blade.

Tuscan bronzed cast iron holder, held together by two machine screws. ¼-inch square double cut file.

Length, inch	8¼
Width, inch	2⅛
Weight per dozen, lbs	8
Per dozen	$10.00

*For shipment from factory only.

One dozen in a display box.

LAWN MOWERS

BALL BEARING
FULLY WARRANTED

Five blades, 10½-inch drive wheels, open spokes. Finish, egg shell enamel, gold bronze and brilliant colors.

The design is the most attractive that is possible to produce and permits of the mower being so lightly constructed where strength is not needed that its weight is materially less than other high grade mowers, adding to the easy running qualities of the ball-bearing features, parts and joints carefully machined and reinforced shoulders are turned on the shrub guard forming a strong frame construction. On the ends of this heavy shaft or shrub guard, which pass through the side plates, are mounted the ball-bearing drive wheels. Hence, the strain caused by the wheels in motion falls on the shaft and not on the side plates, as in the ordinary type of mower where the wheel spindles are a part of the cast sideplates. Self adjusting. Five revolving blades of vanadium crucible steel. Oil tempered stationary blade has upturned lip or edge, cutter bar adjusted by top and bottom screws, extra wide case, hardened pawls.

Size, inch	14	16	18	20
Gross weight each, lbs.	59	63	65	68
Each	$25.50	26.50	27.50	28.50

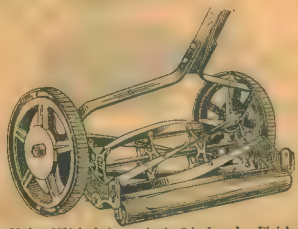
CRESTLAWN
BALL-BEARING

Five blades, 11-inch drive wheels, 6-inch reel. Finish, silver and gold bronze; decorations, empire red.

The wheels as well as the revolving knives turn on ball-bearings. Cutter bar is secured to the four-squared rigid frame by a patented interlocking adjustment that is absolutely impossible to be knocked or twisted out of alignment. Blades of razor steel, tempered in oil and self-sharpening. A ¾-inch reel shaft and double riveted end spiders prevent the reel from being sprung and adds increased momentum.

Size, inch	14	16	18	20
Gross weight each, lbs.	62	64	66	68
Each	$26.00	27.00	28.00	29.00

HERCULES
BALL BEARING



Five blades, 10½-inch drive wheels, 6-inch reels. Finish, white enamel frame and reel, gold enamel wheels with green center and green handle irons; decorations, red.

This mower is attractive and permits of being lightly constructed where strength is not needed, and its weight is materially less than that of any high-grade mower on the market. Each point of construction has been tried out individually in other styles and are combined with patented features, such as self-adjusting ball bearings and steel wheel mountings.

Blades of vanadium crucible steel, oil tempered. Stationary blade has upturned lip or edge. Cutter bar adjusted by top screws on each side of pivotal point. Extra wide case-hardened pawls, insuring a ratchet of long life and durability.

Size, inch	14	16	18
Gross weight each, lbs.	62	64	66
Each	$21.00	22.00	23.00

FENDEN
BALL-BEARING

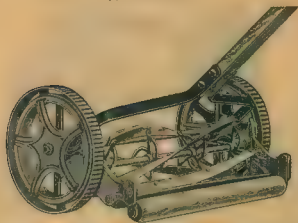
Four blades, 10½-inch drive wheels. Finish, dark green with white enamel wheels; gold trimmings.

An attractive light-weight, ball bearing mower. Shoulders are turned on the shrub guard, forming a strong frame construction. On the ends of the heavy shaft or shrub guard, which pass through the side plates are mounted the ball-bearing drive wheels. Hence, the strain caused by the wheels in motion falls on the shaft and not on the side plates, as in the ordinary type of mower where the wheel spindles are a part of the cast side plates. Blades of vanadium crucible steel, oil tempered, self-adjusting and self-sharpening. Cutter bar adjusted by top and bottom screws.

Size, inch	14	16	18
Gross weight each, lbs.	55	58	61
Each	$24 50	25.00	26.50

LAWN MOWERS

ADMIRAL
BALL-BEARING



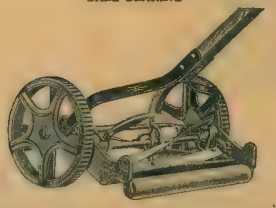
Four blades, 10½-inch wheels, 6-inch reels. Finish, gold bronze and blue; decorations, silver bronze and blue.

A strictly high grade mower, and one of the most beautiful and graceful designs ever produced. The shrub rod runs through the center of the mower, forming an axle for the wheels. All wood parts are of carefully selected stock and lacquered to protect from weather. Accurately fitted and adjusted throughout. Screw adjusting.

Blades of highest grade crucible steel, oil tempered, spirally formed and self-sharpening.

Size, inch	14	16	18
Gross weight each, lbs	48	51	54
Each	$18.00	19.00	20.00

DIRECTOR
BALL BEARING



Four blades, 9-inch wheels, 5¼-inch reels. Finish, red and gold; decorations, gold and silver.

This mower is very graceful in outline, and very easy running. Perfectly machined and fitted and parts are interchangeable. Screw adjusting cutter bar. The ball bearing cones are made of best quality tool steel and tempered glass hard. Automatically adjusted.

Blades of highest grade crucible steel, spirally formed and self-sharpening, which are attached to the reel shaft by means of malleable iron spiders. Shaft is made of cold rolled machinery steel.

Size, inch	12	14	16	18
Gross weight, lbs	40	42	45	50
Each	$15.50	16.00	16.50	17.00

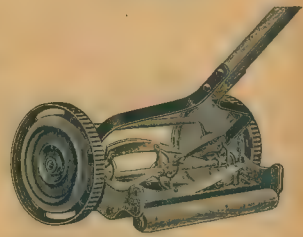
PARAGON
BALL-BEARING

Four blades, 8½-inch wheels; 5½-inch reels. Finish, gold and aluminum bronze; decorations, green.

Semi-open type, light and easy running. A smaller ball-bearing mower that would give better satisfaction could not be built. Every bearing is accurately machined and all material is carefully selected. Blades of high-grade crucible steel, oil tempered and water ground. All ball bearing parts automatically adjusted.

Size, inch	10	12	14	16
Gross weight each, lbs	38	40	42	44
Each	$14.50	15.00	15.50	16.00

BABY GRAND
BALL-BEARING



Four blades, 8-inch wheels; 5¼-inch reels. Finish, aluminum and gold; decorations, blue.

An attractive light-weight, ball-bearing mower. Suitable for owners of small lawns. Accurately fitted; strongly made and has full screw adjustment. Ball-bearing parts are automatically adjusted. All material is first-class. Cones are of tool steel, tempered glass hard. Blades of high quality knife steel ground under water.

Size, inch	10	12	14	16
Gross weight each, lbs	38	40	42	45
Each	$14.50	15.00	15.50	16.00

LAWN MOWERS

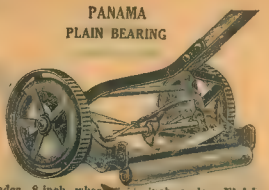
CLOVER LEAF
PLAIN BEARING

Three blades, 8-inch wheels; 5½-inch reels. Finish, apple green and gold bronze; decorations, green.

New and attractive design. All parts are machined and fitted to insure accurate construction. Screw adjustments throughout. The reel shaft is made of machinery steel and has adjustable brass bushings for taking up wear. Blades of high-grade blade steel, carefully tempered and spirally formed.

Size, inch	10	12	14	16
Gross weight each, lbs.	38	40	42	44
Each	$12.50	13.00	13.50	14.00

PANAMA
PLAIN BEARING



Three blades, 8-inch wheels; 6½-inch reels. Finish, gold bronze and green.

Guaranteed to be the best and most attractive, low-priced mower ever made. Very light in weight, yet strongly constructed. All connecting points carefully milled to exact dimensions. Shoulders are machined on each end of cross-rod to produce a rigid frame. Blades of crucible steel, thoroughly tempered. The reel is equipped with brass bushings and a locknut device for taking up wear. Screw adjusting.

Size, inch	10	12	14	16
Gross weight each, lbs.	38	40	42	44
Each	$12.50	13.00	13.50	14.00

GRASS CATCHERS

EASY EMPTYING

Heavy galvanized wire frame. Galvanized wire handle, hook and arms fastened to frame. Heavy white duck sides. Perforated to prevent grass from slipping. Complete with adjustable eye brackets and hooks for attaching. Will fit 12 to 18-inch mowers of any make.

PACIFIC
Non-Slipping Galvanized Steel Bottom.

No.	18 G
Length, inch	19
Width, inch	18
Greatest depth, inch	20
Weight per dozen, lbs	50
Per dozen	$33.00

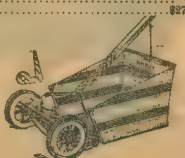
GEM
Smooth Bottom

Made similar to No. 18G, but a trifle smaller and from lighter materials. Fits any lawn mower 12 to 18 inches wide. Square back. Smooth galvanized sheet metal bottom. Duck sides, 16¼ inches deep, 17 inches wide.

No.	16 G
Weight per dozen, lbs.	40
Per dozen	$27.50

SIMPLEX

Made with canvas sides and galvanized iron bottom. Fits all makes of lawn mowers.



Nos.	1	2
For mowers, inch	12, 14, 16	16, 18, 20
Weight per dozen, lbs.	55	60
Per dozen	$24.00	26.00

FAVORITE

Galvanized steel wire frame, with white canvas body, instantly attached or detached. Will fit any mower. Galvanized iron bottom. Perforated to prevent grass from slipping.

Nos.	11	12
For mowers, inch	12 to 16	16 to 20
Length, inch	20	21
Width, inch	16	19
Depth, inch	13	13
Weight per dozen, lbs.	38	40
Per dozen	$22.00	23.00

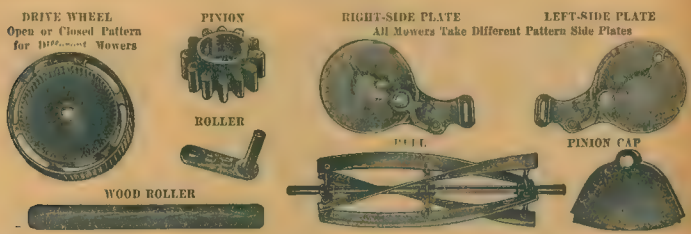
CHIEF

A good serviceable catcher made of canvas. Fits all makes of lawn mowers.

Nos.	1	2
For mowers, inch	12, 14, 16	16, 18, 20
Gross weight per dozen, lbs.	30	30
Per dozen	$18.00	20.00

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted, size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.



CRESTLAWN

	Parcel Post or Express
No. C6-10—Drive wheel; weight, 8 lbs; each	$3 00
No. C63—Right-side plate; weight, 6½ lbs; each	3 00
No. C64—Left-side plate; weight, 6¼ lbs; each	3.00
Reel, 5 blade, complete, all sizes. (State size of mower, number of blades and cutter bar number); express only; each	7.50
L614—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 5¾ lbs; each	3.00
L616—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs; each	3.00
L618—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 6¼ lbs; each	3.00
L620—Cutter bar, complete, with lipped edge steel blade (state size wanted, give number appearing on cutter bar); weight, 6¾ lbs; each	3.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs; each	.75
Wood handle, complete, express only; each	3.00
Wrench; weight, 7 oz.; each	.35
Steel wheel spindle, complete; weight, 5 oz.; each	2.25
Right C15, Left C16—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30
No. 6—Cones, both sides alike; mail; weight, 2 oz.; each	.60

	Parcel Post or Express
No. A63—Pinion cap, both sides alike; mail; weight, 2 oz.; each	$0 20
No. 1912—Hardened steel pawls, both sides alike (state side plate number), mail, weight, 1 oz. each	.10
No. 3—Ball-bearing case, both sides alike; mail; weight, 1 oz; each	.50
No. 42—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each. (Extra balls, 5 cents each).	.60
Cutter bar adjusting bolts, with nuts; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Pin for cutter bar adjustment; mail; weight, 1 oz.; each	.10
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail; weight, 2 oz.; each	.60
Upper handle cap; mail; weight, 2 oz; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Shrub rod nuts; mail; weight, 1 oz.; each	.10
Cutter bar adjusting nuts; mail; weight, 1 oz.; each	.10
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30
Pins for ball-bearing device; mail; weight, 1 oz.; each	.10
Springs for ball-bearing device; mail; weight, 1 oz; each	.30
Pinion cap machine screws, with nuts; mail; weight, 1 oz.; each	.10
Steel wheel sleeve, complete; mail; weight, 3 oz.; each	2.00

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted, size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

HERCULES

	Parcel Post or Express
No. H34-10½ -Drive wheel; weight, 7 lbs.; each	$1.75
No. H11—Right side plate; weight, 4½ lbs.; each	2.25
No. H22—Left side plate; weight, 4½ lbs.; each	2.25
Reel, 4 blade, complete, all sizes (state size of mower, number of blades and cutter bar number); express only; each	5.50
H14-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on the cutter bar); weight, 3¾ lbs.; each	2.00
H16-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on the cutter bar); weight, 4 lbs.; each	2.00
H18-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2 00
H20-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Steel wheel axle shrub rod; weight, 3 lbs.; each	2.50
Wrench; weight, 7 oz.; each	.10
End reel spiders; weight, 6 oz.; each	.60
Center reel spiders; weight, 5 oz.; each	.60
Wood handle, complete, express only; each	2.00
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30
No. 2—Cones, both sides alike; mail; weight, 2 oz; each	$0 60
No. 3—Pinion cap, both sides alike; mail; weight, 2 oz.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz; each	.50
No. 1—Ball bearing case, both sides alike; mail; weight, 1 oz.; each	.10
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5c each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nut; mail; weight, 1 oz.; each	.10
Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each	.30
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail; weight, 2 oz.; each	.60
Steel sleeve for wheel spindle; mail; weight, 2 oz; each	1.00

FENDEN

	Parcel Post or Express
No. F31-10—Drive wheel; weight, 4¾ lbs; each	$3 00
No. F1—Right-side plate; weight, 4 lbs.; each	2.25
No. F2—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4 blades, complete, all sizes (state size of mower, number of blades and cutter bar number); express only; each	5.50
H14-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	3.00
H16-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar; weight, 4 lbs.; each	3.00
H18-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	3.00
H20-in.—Cutter bar, complete, with tempered steel blade (state size wanted, give number appearing on cutter bar; weight, 4½ lbs.; each	3.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Steel wheel axle for shrub rod; weight, 3 lbs.; each	2.50
Wrench; weight, 7 oz.; each	.10
No. F647—End reel spiders; weight, 6 oz.; each	.60
No. F648—Center reel spiders; weight, 5 oz.; each	.60
Wood handle, complete, express only; each	2.00
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike; mail; weight, 4 oz.; each	.30
No. 2—Cones, both sides alike; mail; weight, 2 ozs.; each	$0.60
No. 3—Pinion cap, both sides alike; mail; weight, 4 ozs., each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 1—Ball-bearing case, both sides alike, mail; weight, 1 oz.; each	.50
No. 27—Ball retainer, both sides alike, with balls, mail; weight, 2 oz.; each	.60
(Extra balls, 5 cents each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nuts; mail; weight, 1 oz.; each	.10
Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30
Stationary cone for wheel (give number of wheel); mail; weight, 1 oz.; each	.60
Outside adjusting cone for wheel (give number of wheel); mail; weight, 2 oz.; each	.60
Steel sleeve for wheel spindle; mail; weight, 2 oz; each	1.00

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using the mower. Be sure and give diameter of drive wheel.

MELROSE

Parcel Post or Express

No. H56-10—Drive wheel. Weight, 3¼ lbs; each.....$2.25
No. H67—Right side plate. Weight, 5 lbs.; each..... 2.25
No. H68—Left-side plate. Weight, 5 lbs.; each..... 2.25

Reel, 5-blade, complete, all sizes. (State size of mower, number of blades and cutter bar number.) Express only 7.50

No. H14—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 3¾ lbs.; each..... 3.00

No. H16—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4 lbs.; each..... 3.00

No. H18—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4¼ lbs.; each..... 3.00

No. H20—Cutter bar, complete, with lipped edge steel blades (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each..... 3.00

Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair..... .60

Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each..... .75

Wrench; weight, 7 oz.; each..... .10

Wood handle, complete; express only..... 2.00

Right C15, Left C16—Pinion; mail; weight, 4 oz; each.... .35

No. 4—Roller arms; both sides alike; mail; weight, 4 oz.; each ..... .30

No. 6—Cones; both sides alike; mail; weight, 2 oz.; each.. .60

No. L. W.—Wheel washers; both sides alike; mail; weight, 1 oz.; each..... .10

No. 1912—Hardened steel pawls; both sides alike (state side plate number); mail; weight, 1 oz.; each..... .10

No. 3—Ball-bearing case; both sides alike; mail; weight, 1 oz.; each ..... .50

No. 42—Ball retainer; both sides alike; with balls; mail; 2 oz.; each ..... .60

(Extra balls, 5 cents each.)

Cutter bar adjusting screws; mail; weight, 1 oz.; each.... .10

Cutter bar pivotal screws; mail; weight, 1 oz.; each..... .10

Roller arm bolts, with nuts; mail; weight, 1 oz.; each..... .10

Handle iron bolts, with nuts; mail; weight, 2 oz.; each.... .10

Handle grip joint bolt, with nuts; mail; weight, 2 oz.; each .10

Wheel bolts; mail; weight, 1 oz.; each..... .10

Shrub rod nuts; mail; weight, 1 oz.; each..... .10

Upper handle cap; mail; weight, 2 oz.; each..... .15

Lower handle cap; mail; weight, 4 oz.; each..... .30

Springs for ball-bearing device; mail; weight, 1 oz.; each.. .30

Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each ..... .30

ADMIRAL

Parcel Post or Express

No. 34-10—Drive wheel; state letter cast in wheel whether A, B, H, K or S; weight, 7 lbs.; each.....$2.25

No. 411—Right-side plate; weight, 4½ lbs; each..... 2 25

No. 422—Left-side plate; weight, 4½ lbs.; each..... 2 25

Reel, 4 blades, complete, all sizes (state size of mower, number of blades, and cutter bar number), express only; each 5.50

No. A612—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar; weight, 3½ lbs.; each..... 2.00

No. A614—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each..... 2 00

No. A616—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4 lbs.; each..... 2.00

No. A618—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each..... 2 00

No. A620—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs.; each..... 2.00

Handle irons, both sides alike (state size of mower and cutter bar number); we ght. 3½ lbs.; per pair..... .60

Wood roller, all sizes (state size wanted and cutter bar number.); weight, 2 lbs.; each..... .75

Wrench; weight, 7 oz.; each ..... .10

Wood handle, complete, express only; each..... 2 00

Right B5, Left B6—Pinion; mail; weight, 4 oz.; each..... .35

No. 4—Roller arms; both sides alike; mail; weight, 4 oz, each ..... .30

No. 2—Cones; both sides alike; mail; weight, 2 oz.; each.. .60

No. A—Wheel washers; both sides alike; mail; weight, 1 oz.; each..... .10

No. 3 Pinion cap; both sides alike, mail; weight, 2 oz., each ..... .20

No. 15—Hardened steel pawls; both sides alike (state side plate number); mail; weight, 1 oz.; each..... .10

No. 1 Ball-bearing case, both sides alike; mail; weight, 1 oz.; each ..... .40

No. 27—Ball retainer; both sides alike; with balls; mail; weight, 2 oz.; each..... .60

(Extra balls, 5 cents each)

Cutter bar adjusting screws; mail; weight, 1 oz.; each.... .10

Cutter bar pivotal screws; mail; weight, 1 oz.; each..... .10

Roller arm bolts, with nuts; mail; weight, 1 oz.; each..... .10

Pinion cap machine screws, with nuts; mail; weight, 1 oz.; each ..... .10

Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each..... .10

Handle iron bolts, with nuts; mail; weight, 2 oz.; each.... .10

Handle grip joint bolt, with nut; mail; weight, 2 oz.; each.. .10

Upper handle cap; mail; weight, 2 oz.; each..... .15

Lower handle cap; mail; weight, 4 oz.; each..... 30

Springs for ball-bearing device; mail; weight, 1 oz ; each . 30

Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each ..... .30

REPAIRS FOR F. & N. LAWN MOWERS

Always give number or letter with description of parts wanted, size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left," are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

PARAGON

	Parcel Post or Express
No. 320—Drive wheel; weight, 4¾ lbs; each	$1.75
No. 311—Right-side plate; weight, 4 lbs.; each	2.25
No. 322—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4 blades, complete, all sizes (state size of mower, number of blades, and cutter bar number); express only; each	5.50
A508—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar), weight, 2½ lbs.; each	2.00
A510—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3 lbs.; each	2.00
A512—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3½ lbs.; each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	2.00
A516—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4 lbs.; each	2.00
A518—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wood handle, complete, express only; each	2.00
Wrench, weight, 7 oz.; each	.10
Wood handle, complete; express only; each	2 00
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike, mail, weight, 4 oz., each	.20
No. 2—Cones, both sides alike; mail; weight, 2 oz.; each	.60
No. L. W.—Wheel washers, both sides alike, mail, weight, 1 oz. each	.10
No. J—Pinion cap, both sides alike; mail; weight, 2 oz., each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight 1 oz., each	.10
No. 1—Ball-bearing case, both sides alike; mail, weight, 2 oz.; each	.50
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5 cents each.)	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight, 1 oz.; each	.10
Roller arm bolts, with nuts; mail, weight, 1 oz.; each	.10
Handle iron bolts, with nuts; mail; weight, 2 oz.; each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Wheel bolts; mail, weight, 1 oz.; each	.10
Shrub rod nuts; mail; weight, 1 oz.; each	.20
Upper handle cap, mail, weight, 2 oz, each	.15
Lower handle cap; mail, weight, 4 oz., each	.30
Springs for ball-bearing device, mail, weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz. each	.30

DIRECTOR BALL BEARING

	Parcel Post or Express
No. 34-9—Drive wheel, state whether letter cast in wheel is A, B, H or S, weight, 5¼ lbs., each	$1.75
No. 111—Right-side plate; weight, 4½ lbs; each	2.25
No. 122—Left-side plate, Weight, 4½ lbs.; each	2.25
Reel, 4 blade, complete, all sizes. (State size of mower, number of blades, and cutter bar number) express only; each	5.50
A512—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight 3½ lbs.; each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 3¾ lbs.; each	2.00
A516—Cutter bar, complete, with steel blade (state size wanted give number appearing on cutter bar); weight, 4 lbs.; each	2.00
A518—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4¼ lbs.; each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); weight, 3¾ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wood handle, complete, express only; each	2.00
Wrench, weight, 7 oz.; each	.10
Right B5, Left B6—Pinion; mail; weight, 4 oz.; each	$0.35
No. 4—Roller arm, both sides alike; mail; weight, 4 oz., each	.30
No. 2—Cones, both sides alike; mail, weight, 2 oz.; each	.60
No. A—Wheel washers, both sides alike; mail weight, 1 oz.; each	.10
No. 3—Pinion cap, both sides alike; mail; weight, 2 oz.; each	.20
No. 15—Hardened steel pawls, both sides alike (state side plate number); mail; weight, 1 oz.; each	.10
No. 1—Ball-bearing case, both sides alike; mail; weight, 1 oz.; each	.50
No. 27—Ball retainer, both sides alike, with balls; mail; weight, 2 oz.; each	.60
(Extra balls, 5c each).	
Cutter bar adjusting screws; mail; weight, 1 oz.; each	.10
Cutter bar pivotal screws; mail; weight 1 oz.	.10
Roller arm bolts, with nuts; mail; weight, 1 oz.; each	.10
Pinion cap machine screws, with nut; mail; weight, 1 oz; each	.10
Set screws for fastening side plate to axle rod; mail; weight, 1 oz.; each	.10
Handle iron bolts and nuts; mail, weight, 2 oz., each	.10
Handle grip joint bolt, with nut; mail; weight, 2 oz.; each	.10
Upper handle cap; mail; weight, 2 oz.; each	.15
Lower handle cap; mail; weight, 4 oz.; each	.30
Springs for ball bearing device; mail; weight, 1 oz; each	.30
Metallic sleeve for ball bearing device; mail; weight, 1 oz.; each	.30

REPAIRS FOR F. & N. LAWN MOWERS

BABY GRAND

	Parcel Post or Express
No. 20—Drive wheel; weight, 4¾ lbs; each	$1.75
No. 211—Right-side plate; weight, 4 lbs.; each	2.25
No. 222—Left-side plate; weight, 4 lbs.; each	2.25
Reel, 4-blade, complete, all sizes (state size of mower, number of blades and cutter bar number); express only; each	5.50
A508—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 2½ lbs.; each	2.00
A510—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 3 lbs.; each	2.00
A512—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 3½ lbs.; each	2.00
A514—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 3¾ lbs.; each	2.00
A516—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4 lbs.; each	2.00

	Parcel Post or Express
A518—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4¼ lbs; each	2.00
A520—Cutter bar, complete, with steel blade (state size wanted, give number appearing on the cutter bar); weight, 4½ lbs.; each	2.00
Handle irons, both sides alike (state size of mower and cutter bar number); we ght, 3½ lbs.; per pair	.60
Wood roller, all sizes (state size wanted and cutter bar number); weight, 2 lbs.; each	.75
Wrench; weight, 7 oz.; each	.10
Wood handle, complete, express only; each	2.00
Right No. B5, Left No. B6—Pinion; mail; weight, 4 oz.; each	.35
No. 4—Roller arms, both sides alike, mail, weight, 4 oz.; each	.30
No. 2—Cones, both sides alike; mail; weight, 2 oz.; each	.60
No. L. W.—Wheel washers; both sides alike; mail; weight, 1 oz.; each	.10
Sprags for ball-bearing device; mail; weight, 1 oz.; each	.30
Metallic sleeve for ball-bearing device; mail; weight, 1 oz.; each	.30

CLOVER LEAF

	Parcel Post or Express
No. 20—Drive wheel; weight, 4¾ lbs	Each $1.75
No. 111—Right-s de plate. Wt, 4 lbs	" 1.75
No. 122—Left-side plate. Wt, 4 lbs	" 1.75
Reel, 3 blades, complete, all sizes. (State size of mower, number of blades, and cutter bar No.), ex press only	" 4.00
A508—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 2½ lbs	" 2.00
A510—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3 lbs	" 2.00
A512—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3½ lbs	" 2.00
A514—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 3¾ lbs	" 2.00
A516—Cutter bar, complete with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 4 lbs	" 2.00
A518—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 4¼ lbs	" 2.00
A520—Cutter bar, complete, with steel blade. (State size wanted. Give number appearing on the cutter bar). Wt, 4½ lbs	" 2.00
Handle irons, both sides al ke (state size of mower and cutter bar No.) Wt, 3½ lbs	Per pair .60
Wood roller, all sizes. (State size wanted and cutter bar No.) Wt, 2 lbs	Each .75
Wrench. Wt, 7 ozs	" .10
Wood handle, complete, express only	" 2.00
Right B5, Left B6—Pinion; mail. Wt, 4 oz	" .35
No. 4—Roller arms, both sides alike; mail. Wt, 4 oz	" .30
No. L. W.—Wheel washers, both sides alike; mail. Wt, 1 oz	" .10

PANAMA

	Parcel Post or Express
No. J20—Drive wheel. Wt, 4½ lbs	Each $1.75
No. J88—Right-side plate. Wt, 4 lbs	" 1.75
No. J44—Left-side plate. Wt, 4 lbs	" 1.75
Reel, 3 blade complete, all sizes. (State size of mower, number of blades, and cutter bar No.), express only	" 4.00
B508—Cutter bar, Complete with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 2½ lbs	" 2.00
B510—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3 lbs	" 2.00
B512—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3½ lbs	" 2.00
B514—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 3¾ lbs	" 2.00
B516—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4 lbs	" 2.00
B518—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4¼ lbs	" 2 00
B520—Cutter bar, complete, with steel blade. (State size wanted, give No. appearing on the cutter bar). Wt, 4½ lbs	" 2.00
Handle irons, both sides alike. State size of mower and cutter bar No.). Wt, 3½ lbs	Per pair .60
Wood roller, all sizes. (State size wanted and cutter bar No.). Wt, 2 lbs	Each .75
Wrench. Wt, 7 ozs	" .10
Wood handle, complete, express only	" 2.00
Right B5, Left B6—Pinion; mail. Wt, 4 ozs	" .35
No. 4—Roller arms, both s des alike; mail. Wt, 4 ozs	" .30
No. L W.—Wheel washers, both sides alike; mail. Wt, 1 oz	" .10
No. J—Pinion cap, both sides alike; mail. Wt, 2 ozs	" .20

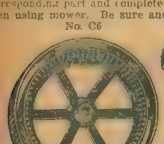
The following parts are alike for Baby Grand, Clover Leaf and Panama lawn mowers

	Parcel Post or Express
No. 15—Hardened steel pawls, both sides alike. (State side plate No.), mail. Wt, 1 oz	Each $0.10
Cutter bar adjusting screws, mail. Wt, 1 oz	" .10
Cutter bar pivotal screws, mail. Wt, 1 oz	" .10
Machine screws, with lock nuts for reel bearing adjustment, mail. Wt, 1 oz	" .10
Roller arm bolts, with nuts, mail. Wt, 1 oz	" .10
Handle iron bolts, with nuts, mail. Wt, 2 ozs	Each $0.10
Handle grip joint bolt, with nut, mail. Wt, 2 ozs	" .10
Wheel bolts, mail. Wt, 1 oz	" .10
Shrub rod nuts, mail. Wt, 1 oz	" .10
Bronze bearings, mail. Wt 1 oz	" .10
Upper handle cap, mail. Wt, 2 ozs	" .15
Lower handle cap, mail. Wt, 4 ozs	" .30

REPAIRS FOR F. & N. LAWN MOWERS

CRESTLAWN PONY MOWER

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.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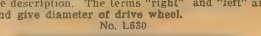
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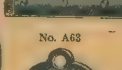
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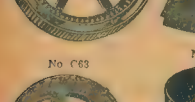
Horse Attachment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No. 3

No. 1912

Wood Roller

Handle Irons

Automatic Ball Bearing Adjustment

No. C64

Cutting Reel

	Weight	Parcel Post or Express	
No. C6-11—Drive wheel	4¾ lbs.,	each	$6.00
No. C63—Right-side plate	4 lbs.,	each	6.00
No. C64—Left-side plate	4 lbs.,	each	6.00
Reel, 4 blades, complete. (State size of mower and cutter bar number.) Express only			22.00
Cutter bar, complete, with lipped edge steel blade (give number appearing on cutter bar). Express only			16.50
Handle irons, both sides alike. (State size of mower and cutter bar number)	3½ lbs.,	pair	1.50
Wood roller, all sizes (state size wanted and cutter bar number)	2 lbs.,	each	1.50
Wood handle, complete, express only			3.00
Wrench	7 oz.,	each	.35
Steel wheel spindle, complete	5 oz.,	each	2.25
		Mail	
Right C15, Left C16—Pinion	4 oz.,	each	.85
No. 4—Roller arms; both sides alike	4 oz.,	each	.30
No. A63—Pinion cap; both sides alike	2 oz.,	each	.20
No. 1912—Hardened steel pawls; both sides alike (state side plate number)	1 oz.,	each	.10
No. 3—Ball bearing case; both sides alike	1 oz.,	each	.50
No. 42—Ball retainer, both sides alike, with balls (Extra balls, 5c each.)	2 oz.,	each	.60
Cutter bar adjusting bolts, with nuts	1 oz.,	each	.10

	Weight	Parcel Post or Express	
Roller arm bolts, with nuts	1 oz.,	each	60 10
Handle iron bolts with nuts	2 oz.,	each	.10
Handle grip joint bolt, with nut	2 oz.,	each	.10
Pin for cutter bar adjustment	1 oz.,	each	.10
Stationary cone for wheel (give number of wheel)	1 oz.,	each	.60
Outside adjusting cone for wheel (give number of wheel)	2 oz.,	each	.60
Upper handle cap	2 oz.,	each	.15
Lower handle cap	4 oz.,	each	.30
Shrub rod nuts	1 oz.,	each	.10
Cutter bar adjusting nuts	1 oz.,	each	.10
Metallic sleeve for ball bearing device	1 oz.,	each	.20
Pins for ball bearing device	1 oz.,	each	.10
Springs for ball bearing device	1 oz.,	each	.20
Pinion cap machine screws, with nuts	1 oz.,	each	.10

Horse Attachment

D27—Horse attachment arm, left hand			.40
D28—Horse attachment arm, right hand			.40
D29—Clamp for No 27			.40
D30—Clamp for No 28			.40
D31—Draft rod clevis			.40
D32—Horse attachment draft rod and clip			.40
D33—Horse attachment bar			.70
D34—Whiffletree handle			.70
D35—Whiffletree			.70

REPAIRS FOR F. & N. LAWN MOWERS

FENDEN HORSE MOWER

Always give number or letter with description of parts wanted; size and name of machine; if broken part is lost, give number of corresponding part and complete description. The terms "right" and "left" are used with relation to the position of the operator when using mower. Be sure and give diameter of drive wheel.

	Parcel Post or Express Each
E3—Right hand side plate	$20.00
E4—Left hand side plate	12.00
E5—Left hand gear shield	9.00
E20—Small lid on gear shield	1.00
E7—Right hand reel bearing hanger	2.40
E8—Left hand reel bearing hanger	2.40
E1—Back cross bar (state size), 30-inch	8.00
E1—Back cross bar (state size), 35-inch	9.00
E1—Back cross bar (state size), 40-inch	10.00
E21—Front cross bar (state size), 30-inch	8.00
E21—Front cross bar (state size), 35-inch	9.00
E21—Front cross bar (state size), 40-inch	10.00
E14—Tool box	3.00
E6—Ring bracket for tool box lid	1.00
E15—Lid for tool box	1.20
L8—Clutch arm (throwing mower in and out of gear)	.80
E18—Clutch handle (throwing mower in and out of gear)	1.20
E10—Small front wheels (both alike)	4.00
L10—Fork hangers for front wheels (both alike)	4.00
E11—Pinions for lowering or raising front wheels (both alike)	1.00
E12—Pinion caps for E11 (both alike)	1.00
L2—Long lever arm for lowering or raising device	2.00
L4—Small clutch arm for L2	1.00
L5 Clips on L2 lever arm (both alike)	.60
L1—Short connecting arm to L2	.80
L6—Long connecting arm to L2	1.00
L3—Quadrant latch for L2	1.00
L7—Notched quadrant ring	1.20
L11—Shaft clips (fit on E21)	1.60
E13—Hangers for drive roller shaft bearings (both alike)	1.60
E16—Clutch on drive roller shaft	2.00
Right hand drive roller (state size of mower), 30-inch	16.00
Right hand drive roller (state size of mower), 35-inch	18.00
Right hand drive roller (state size of mower), 40-inch	20.00
Left hand drive roller (state size of mower), 30-inch	16.00
Left hand drive roller (state size of mower), 35-inch	18.00
Left hand drive roller (state size of mower), 40-inch	20.00

	Parcel Post or Express Each
Drive roller shaft, 30-inch	$ 5.00
Drive roller shaft, 35-inch	6.00
Drive roller shaft, 40-inch	7.00
E17—Large single gear on drive roller shaft	6.00
E19—Large double gear on stud in center of gear shield	10.00
E2—Small gear on revolving reel shaft	1.20
E23—Pawl holder	2.40
E9—Pawls (all alike)	.40
Wood roller (state size of mower)	10.00
E24—Bracket for wood roller (both alike)	1.00
E20, E35 and E40—Cutter bar castings for 30-inch	10.00
E30, E35 and E40—Cutter bar castings for 35-inch	12.00
E30, E35 and E40—Cutter bar castings for 40-inch	14.00
Bottom knife—Flat blade, 30-inch	17.00
Bottom knife—Flat blade, 35-inch	18.00
Bottom knife—Flat blade, 40-inch	19.00
Bottom knife—Upturned lip, 30-inch	19.00
Bottom knife—Upturned lip, 35-inch	20.00
Bottom knife—Upturned lip, 40-inch	21.00
Single reel blades, 30-inch	5.50
Single reel blades, 35-inch	6.00
Single reel blades, 40-inch	6.50
L817—Single reel braces (all alike) for 4-blade mowers	3.00
L857—Single reel braces (all alike) for 5-blade mowers	3.00
Brass bushings for reel bearings (both alike)	3.00
Reel shaft, 30-inch	5.00
Reel shaft, 35-inch	6.00
Reel shaft, 40-inch	7.00
Reel complete, 30-inch	38.00
Reel complete, 35-inch	40.00
Reel complete, 40-inch	42.00
Wrought iron handle	15.00
Seat	5.00
Seat spring	6.00
Foot board	4.00
Screws, bolts, nuts (state for what part or number wanted), small standard sizes	.10
Screws, bolts, nuts (state for what part or number wanted), large specials	.20

FORD SPECIALTIES

REBOUND CHECK AND SHOCK ABSORBERS

BURGESS

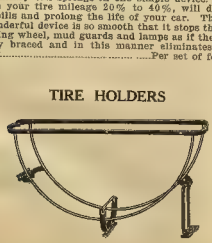
Front View

Rear View.

For Ford Cars

New Model—With all improvements. Large Coil Springs with Rubber Caps. New arrangement of shackle makes them doubly effective both as a shock absorber and as a rebound check. Quickly applied without drilling or altering car in any way. Requires only one wrench, which is furnished with each set. Absorbs vibration and makes a Ford the easiest riding car. You can ride cobbles or rough country roads in absolute comfort. This combination of Rebound Check and Shock Absorbing Auxiliary Springs merges the action of both devices. The Burgess Rebound Check and Shock Absorber combines the action of the friction, snubbing and auxiliary coil springs in one simple device. They will increase your tire mileage 20% to 40%, will decrease the repair bills and prolong the life of your car. The action of this wonderful device is so smooth that it stops the vibration of steering wheel, mud guards and lamps as if they had been specially braced and in this manner eliminates noise and rattling..... .....Per set of four, $20.00

TIRE HOLDERS



For Running Boards

No. 175—For two tires. Weight, 6¾ lbs. ...Each, $4.00

TIRE HOLDERS

M'KINNON

For Five-Passenger Fords

No. 180—For one tire. Weight, 13¾ lbs.....Each, $6.00

Made of steel, electrically welded. Light weight, yet strong and durable. For the rear of Ford cars. Quickly and easily attached. Smooth welded joints cannot cut or injure the tire. Nothing to break or get out of order. Guaranteed to give satisfactory service under all conditions.

Designed to carry tail light and license pad. Have simple locking device to prevent theft. Can be used for any 30x3½ in. tires with or without covers or demountable rims. Finished in black Japan, carefully baked on.

For Extra Wheels

No. 181—Weight, 14 lbs.. .... .Each, $7.00

Made of steel, electrically welded. Light weight, yet strong and durable. To attach to rear of Fords. Will carry extra wire or wooden wheel quite as well as an extra tire with or without demountable rim. A truly universal holder. Can be used for any Ford tire equipment excepting 31x4 in. oversize.

All welds on the outside. Cannot injure the tire, yet holds it securely. Has simple locking device to prevent theft.

Designed to carry tail light and license pad. Finished in black japan carefully baked on.

STEERING WHEELS

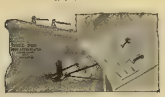
De Luxe—17 in Wheel, Aluminum Spider, Corrugated Walnut Rim . . . . . Each, $8 00

SEATTLE HARDWARE COMPANY

FORD SPECIALTIES

FOOT ACCELERATOR

BULLDOG



Bulldog ....Each, $1.50

All parts are made of the very best material. The Foot Rest which goes with every Accelerator makes it easy to hold throttle steady over the roughest roads.

It is simple in construction and easy to install.

The hand control works independent of the foot control.

Should you desire to remove floor boards you can do so by unscrewing button on foot pedal.

RADIATOR CAPS

Ornamental and practical. Cap is made of heavy brass, highly polished and finished.

Brass ....Each, $0.75

Nickel ..... " .90

HUB CAPS

An exact counterpart of the Standard Model T Hub Cap, made of heavy gauge brass, highly polished Packed 10 in box

Brass..... Each, $0.50

Nickel ..... " .50

CUT-OUT SETS

Badger—This outfit is complete and efficient. Valve has 2-inch opening and is machined to fit. Pulley, cable, lock pedal, spring and valve packed in box Complete outfit. ..... Each, $0 95

BRAKE SHOES

LINED TWO-PIECE

No. 505—Two-Piece Type..... .....Per pair, $2.00

Made of best quality gloss grey iron casting. Complete, less springs. Brake lining used is best obtainable.

BRAKE SHOES

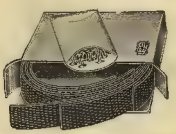
"T" STEEL

Patented

Made of steel, lined with high-grade asbestos lining. Can be adjusted to fit any Ford drum, no mater how badly worn, furnishing a full 48-inch breaking surface at all times.

"T" Steel-- ...Per pair, $3.50

LINING SETS



The Lining is cut to the proper length; 3 lengths of 23 inch each, $1\frac{1}{2}$ inches wide and $\frac{3}{16}$ inch thick. The set includes 34 brass split rivets. Each set packed in heavy cardboard box.

Lining Sets Complete ..... .Per set, $1 50

WHEEL PULLERS

FORD AND CHEVROLET ADJUSTABLE

No. 660—Weight, 2 lbs ....Each, $1.40

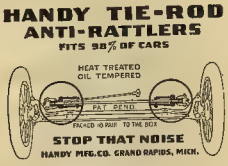
Is so built that when it threads on the hub and is tightened up with the hub cap wrench, you insure yourself against any harm to these threads by closing up the "Gripclamp."

FORD SWITCH KEY

Ford Switch Key—Fits all models of Fords equipped with metal coil box.....Per dozen, $1.20

HANDY ANTI-RATTLERS

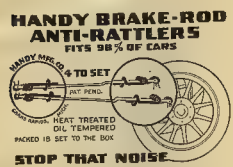
TIE ROD



Handy . . . . . .Per pair, $0.75

Packed eighteen pairs in Display Box.

BRAKE ROD

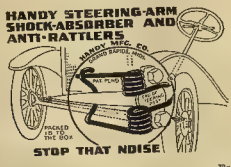


(4 to Set)

Handy . . . . . .Per set, $0.75

Packed eighteen sets in Display Box.

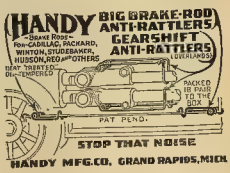
STEERING ARM



Handy . . . . . .Each, $0.50

Packed eighteen only in Display Box.

BIG BRAKE ROD



Handy . . . . . .Per pair, $0.75

Packed eighteen pairs in Display Box.

FORD ANTI-RATTLERS

No. 5155

No. 5142

No. 5155—Fits on steering rod to stop rattle and has screw adjustment to take up wear. Two required on each car. . . . . .Per pair, $0.60

One pair in a box

No. 5142—Fits on radius rod to stop rattle and has screw adjustment to take up wear. . . . . Each, $0.50

One in a box.

FORD WIRING SETS

No. 707—Four different colored Timer Wires fitted with terminals on each end and enclosed in loom.....Per Set, $1.00

No. 711—Four different colored Timer Wires fitted with terminals on each and enclosed in metal tubing . . . . . Per set, $1 00

No. 800—Four Spark Plug Wires with terminals on each end. . . . . Per set, $1.00

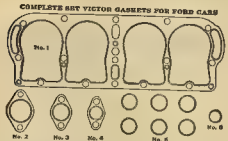
No. 706—Timer and Lighting Set without Spark Plug wires, in circular loom, 5 wires . . . . . Per set, $1.25

No. 710—Same as No. 706, but in Flexible Metal, 5 wires. . . . . Per set, $1.25

No. 700—Same as No. 706, but in bulk. Not packed in individual carton. . . . . Per set, $1.00

SEATTLE HARDWARE COMPANY

COPPER-ASBESTOS GASKETS


COMPLETE SET VICTOR GASKETS FOR FORD CARS
No. 1
No. 2
No. 3
No. 4
No. 5
No. 6
1 Victor Cylinder Head Gasket.
2 Victor Cylinder Head Outlet Gasket.
3 Victor Cylinder Head Inlet Gasket.
4 Victor Carburetor to Intake Manifold Gasket.
5 Victor Inlet and Exhaust Pipe Gaskets.
6 Transmission Drain Plug Gasket.

Ford Gasket Sets ..... Per set, $1.00

Ford

No. JV25—Assortment containing 132 Ford Gaskets, Nos. 1, 2, 3, 4, 5 and 6 complete, representing 12 complete sets. ..... For assortment, $8.00

FORD FELT WASHERS

A complete set of all the Felt Washers in a Ford car. Best quality hard felt used in their manufacture. This lot of Washers put up in a salable package as shown. Twenty Washers in a package

Ford Felt Washers ..... Per Package, $1.00

BAILEY BALL THRUSTS

The chief cause of rear axle trouble can be attributed to the flat thrust washers used in the Ford and Chevrolet 490 differentials. These washers are the means of keeping the teeth of the pinion gear in proper mesh, but because of their flat surface they can have only a sliding contact and rapidly wear thin, according to load and road conditions imposed. When flat thrust washers have worn thin enough a break occurs. But the Bailey Ball Thrust Bearing, replacing the flat thrust washers at the left (gear) side of the differential, is the obvious remedy for the difficulties caused by flat washers.

The Bailey Bearing is an exact replacement, made to fit to the thousandth part of an inch. Is made of the finest materials, carefully heat treated and ground, has eighteen ¼-inch balls of the highest type and because it has a capacity for six times the maximum, will always keep gears in proper mesh, make them run smoothly and last indefinitely. The Bailey Ball Thrust Bearing will not wear thin, and because they render the maximum service in efficiency they promote prestige for the man who installs them and create satisfied customers, who appreciate the additional vitality to their car in having installed a bearing that remedies rear axle difficulty, even though the cost is more than usual.

Dealers, garagemen and repairmen who insist upon installing the flat thrust washers commonly used, deny themselves the opportunity to a greater source of satisfaction and profit obtainable only through installing Bailey Thrust Bearings. No car owner will complain of the higher cost of an article that eliminates the unusually expensive rear axle breakdown.

Bailey ..... Each, $3.75

FORD SPECIALTIES

K-W. AUTOLOCK SWITCHES

Prevents theft and unauthorized use of car. Locks units. Cannot be wired around or the motor started even if screws are taken out. Saves insurance, loss, inconvenience and worry.

K-W ... . Each, $4.00

K-W. FORD COIL UNITS

The reliability and efficiency of the K.-W. Coil Unit is known wherever Ford cars are used. Over 6,000,000 in use. Equipped with K.-W. Tungsten Contact Points

K-W. . . . . Each, $3.50

K-W. TUNGSTEN CONTACT POINTS

For use on K.-W. Ford Coil Units. Needs no introduction to Ford owners. Points made of new "Sparkite" metal. Better than Tungsten or Platinum. Better and hotter sparks at low or high speeds. Made of solid metal and is larger in size. More efficient and has longer life.

K-W.. .. . . Per pair, $0.50

AUXILIARY RADIUS ROD

No. 2—Efficient support and protection for radius rod and front axle. Makes steering more secure and easier and prevents loss of car control. Packed in individual corrugated cartons.. ..... Each, $2.25

FRONT AXLE BRACE AND RADIUS ROD SUPPORT

No. 1 -Made of one continuous piece of 1x1x⅛ in. angle bar steel with crotch bent into shape. Weight, 5 lbs.. Each, $2.25

RUNNING BOARD BRACE

These braces keep the running boards from sagging and prevent the fenders from shaking loose.

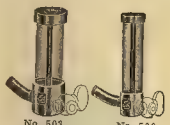
Made of 1½x1½x⅛ in. angle bar steel with wood blocks attached, which fit in space under the running boards.

Furnished complete with ⅞-in. round steel hooks, which fasten over the chassis.

Substantial, strong and will not bend. Black enamel finish.

No. 80—Weight, 11 lbs. .. .. Each, $2.50
Six braces in bundle.

FORD OIL GAUGES

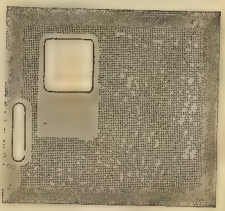


No. 503 No. 500

No. 500—⅝x3¼ inch, plain, brassed and polished..Each, $0.40

No. 503—1x3½ inch, large, plain, blued steel base and cap. .. .. Each, $0.40

FORD RUBBER MATS



Best Quality.

Ford Mat—Specify year model wanted. . . .. Each, $2.00

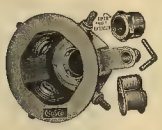
HORN REEDS

Tested Reeds of best tone quality.

Tapered .. . . Per dozen, $1.50
Ferruled ... . " " 3.00

TIMERS

BEMUS



For Ford Cars

Contact is made by a hardened tool-steel brush engaging steel balls with short, glancing impacts, both the brush and the balls turning each time so that fresh contact surfaces are continually engaged.

Insulation—The shell of the Bemus is molded in one piece of an insulating material of great strength and toughness, impervious to any amount of heat, cold, moisture or grease. The handle is reinforced with a steel bushing molded into the material. Into this insulator shell the four contact sockets are threaded and held firmly in position with lock washers.

Bemus—In cartons. Weight, 10 oz. ..... Each, $3.00

MOSCO

For Ford Cars

The case is made of extra heavy pressed steel, finished in aluminum. Gray bone fibre is used for raceway, with steel inserts dovetailed in and all lathe finished to a polished surface. The threaded terminals are insulated by fibre washers all the way thorugh to contact points, thus removing cause of short circuiting common to this style of timer.

Mosco—Weight, 9 oz. ..... Each, $2.00

One in a carton.

MILWAUKEE

For Ford Cars

The Milwaukee Timer fits all Fords from late 1912 to 1920 models, inclusive. Also fits Fordson tractor.

The Milwaukee Timer case is a one-piece steel stamping, fitted with an insulating ring of high-grade Egyptian gray fibre, extra wide and deep.

The brush assembly is carefully machined and the roller is so fitted that it always bears squarely on the contacts, insuring a hot spark correctly timed. The spring used is made of high-grade piano wire. The roller is high-carbon tool steel, machined, hardened, ground and polished.

No. 18—Weight, 10 oz. ..... Each, $2 25

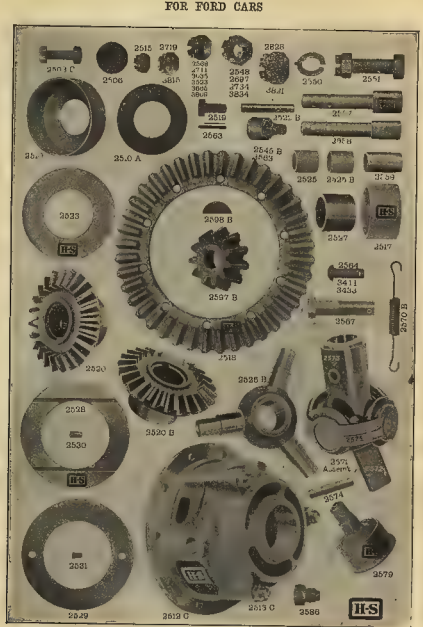
One in a carton.

Brush Assembly for Milwaukee

No. FT19 ..... Each, $0.85

REPAIR PARTS

FOR FORD CARS

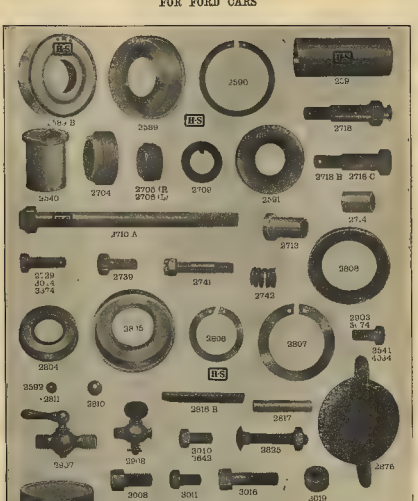


NAME OF PART Rear Axle Parts—	Year	Specifications	Part No.	Standard Package	Each
Axle housing bolt & nut		⅞"x1⅛"	2503B	25	$0.05
Axle shaft, tapered	1912-18, 56" tread,	1⅛"x31 ⅞"	2305	25	2.50
Axle shaft washer	1909-18,	1⅛" dia. fiber	2306	100	.03
Axle shaft roller bearing sleeve, right	1909-18,	4 in. long	2309	25	.30
Axle shaft roller bearing sleeve, left	1909-18,		2309B	25	.30
Axle housing cap	1909-18,	2½" dia.	2310	25	.05
Axle outer roller bearing steel washer	1909-18,	2½" dia.	2310A	100	.03
Axle outer roller bearing felt washer	1909-18,	2⅞" dia.	2310B	100	.05
Diff. case, left	1914-18,	Assembled	2512C		3.55
Diff. case, right	1914-18,	Assembled	2513C		
Diff case stud and nut	1909-18,	⅜"x2¼"	2314	50	.10
Diff case stud and nut	1916-18,	⅜"x2⅝"	2314B	50	.10
Diff. case bushing, phos. bronze		1 9/16 in. bore, 1 13/16 in. diam.	3517 Bronze		.50
Diff drive gear, alloy steel	1909-18	40 teeth	2518	24	4 00
Diff. drive gear screw	1909-18,	⅞"x1"	2519	100	.05
Diff. gear lock ring	1909-18,		2519A	100	.03
Diff gear	1913-18,	24 teeth (not drilled)	2520B		1 75
Diff. gear pin	1911-18,	1⅛ in. long	2521B		.05

NAME OF PART Rear Axle Parts—	Year	Specifications	Part No.	Standard Package	Each
Diff. gear thrust washer	1909-14,	Fibre, 3 ½" dia.	2523	100	$0 10
Diff. Spider with bushing	1911-15,		2526B	10	1 00
Diff. spider bush., phos. br'z.	1909-15,	1 ½" bore	2527	25	.35
Diff. thrust plate, die cast	1909-18,	3⅜" dia	2528	12	.30
Diff. thrust plate, bronze	1909-18,	3⅜ in. diam.	2528A		.50
Diff. thrust plate, steel, C.H.	1909-18,	3⅜" dia.	2529	25	15
Diff. thrust plate pin	1909-16,	1½" long	2530	100	.03
Diff. thrust plate pin	1909-16,	⅞" long	2531	100	03
D. S. housing front bushing	1909-18,	1 in. bore, 1⅝ in. babbet	2540	12	60
Radius rod nut	1909-18,	⅞"x18 thds.	2548	100	.05
Radius rod lock nut	1909-18,	9/16x18 in. thread	2549		.05
Radius rod bolt and nut	1909-18,	⅜ x 7⅛ in.	2551	25	.10
Hub, cam shaft, right	1909-18,	3½" long	2557	25	.25
Hub cam shaft, left	1909-18,	3½" long	2558	25	.25
Lever clevis pin	1909-18,	⅜"x1"	2564	100	.05
Hub brake shoe, cast iron	1909-16,		2566	24	35
Brake shoe support bolt	1909-18,	½"x1⅜ in.	2567	100	.10
Brake shoe coil spring	1913-18,	5⅝" long	2570B	100	.03
Ball cap gasket	1909-18,	Felt	2580	100	.05

REPAIR PARTS

FOR FORD CARS

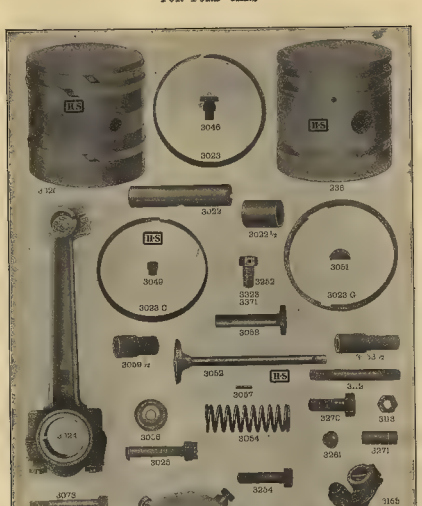


NAME OF PART	Year	Specifications	Part No.	Standard Pack ages	Each
Rear Axle Parts—Con.					
D. S. roller bearing housing set screw	1911-18	½"x20 thds	2824	50	$0.05
D. S roll'r bear'g dist. plate	1911-18	2 1/32 in dia.	2868	100	.05
D. S. ball race	1911-18	2⅝" dia	2839	24	.15
D. S. ball bearing assembly	1911-18		2839 D		1.00
D. S. ball retainer	1911-18	2¼" dia	2840	100	.03
D. S. ball thrust collar	1911-18	2½" dia	2841	25	.30
D. S. roller bearing sleeve	1909-18	2⅜ in. diam. by 3⅜ in. long	2833		1.00
Drive shaft, tapered	1911-18	1⅛"x28 s.s.	2865B	24	5.50
D. S. sleeve	1911-18	1" bore, 3⅛" long	2836	24	1.00
D. S. pinion key	1911-18		2868B	100	.03
Front Axxle—					
Spindle body, right	1911 18,		2834	25	2.50
Spindle arm, right or left			2836		.75
Spindle body, left	1911-18,		2835	25	2.50
Spindle arm, right			2836B		.75
Spindle arm nut	1911-18,	9/16in. x18 thds	2837	100	.05
Stationary cone	1909-18,	1⅛" bore	2704	25	.20
Adjust. cone, right thread	1909-18,	⅝"x16 thds. R. T.	2705	25	.20
Adjust. cone, left thread	1909-18,	⅝"x16 thds. L. T.	2706	25	.20
Spindle nut, right thread	1909-18,	⅝"x16 thds. R. H.	2707	25	.10
Spindle nut, left thread	1909-18,	⅝"x16 thds. L. H.	2708	25	.10
Spindle washer	1909-18,	⅝" hole x 1⅝"	2709	100	.02
Spindle bolt with oiler, not ground	1909-18,		2710	25	.25
Spindle bolt nut	1909-18		2711	50	.05
Spin. body bush (pr)ph.brz	1909-18,	⅝" bore	2713	25	.25

NAME OF PART	Year	Specifications	Part No.	Standard Pack ages	Each
Front Axle Parts—Con.					
Spin arm bush., phs. br'ze	1909-18,	⅝"bore, ½" dia., 1"L.	2714	50	$0.05
Spin. con. rod bolt with oiler	1909-18,	⅝"x2¼"	2718	50	.20
Spin. con. rod bolt nut	1909-18,	⅝"x20 thds.	2719	100	.05
S'ring yoke clamp bolt nut	1909-18		2732		.05
Ball socket bolt and nut	1909 17,	⅜ x 1 7/32 in	2739	25	.05
Front radius rod	1909 18,		2733	24	3.00
Front radius rod nut	1909 18,	⅞"x18 thds	2734	100	.05
Rad rod ball cap stud & nut	1914-18,		2741	100	.05
Rad. rod ball cap spring	1914-18,		2742	100	.03
Wheels—					
Front hub assembly	1909-16		2803	50	2.00
Outer race	1909-18,	1.4" dia	2804	25	.15
Outer race	1917-18,	1 15/16 in diam, 41/64 in. deep	2804A		.15
Inner race	1909-18,	2.41" dia	2805	25	.20
Outer ball retainer	1909 18,	1⅞" dia	2806	100	.02
Inner ball retainer	1909-18,	2.41" dia	2807	100	.03
Dust ring	1909 18,	Steel, 2.1" dia	2803	25	.05
Felt washer fr't & rear hub	1909-18,	2⅝" dia	2809	100	.05
Rear hub, tapered	1913-18,	2⅛" long	2810C	50	2.00
Rear hub key (for tap ax.)	1913-18,	⅛"x⅛"x2¼"	2810B	100	.05
Hub cap, steel, brass plated	1909-18,		2810	25	.20
Hub cap, steel, nickel plcd.	1909-18,		2819A		.15
Hub bolt and nut	1911-18,	⅜"x2½"x16 thds.	2825	50	.05
Hub flange	1911-18,	6" dia	2827	50	.20

REPAIR PARTS

FOR FORD CARS

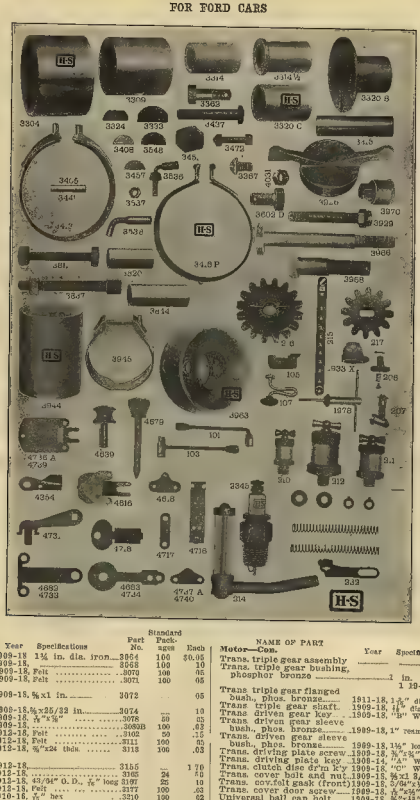


NAME OF PART Motor—	Year	Specifications	Part No.	Standard Pack- ages	Price Each.
Cyl. head gasket	1909-18.	Copper-asbestos	3002	50	$0.50
Cyl.head outlet con gasket	1908-18.	Copper	3305	50	05
Cyl.head outlet con screw	1908-18.	⅜"x1¼"	3003	100	05
Cyl cover bolt and nut	1908-18.	⅜x⅞ in	3010		05
Cyl. cover cap screw	1909-18.	¼"x¾"	3011	100	.05
Cyl. cover felt	1909-18.	Felt	3012	100	05
Cyl water inlet gasket	1909-18.	Copper	3016	50	05
Cyl. water jacket plug	1909-18.	½" pipe plug	3010	25	.05
Piston complete	1909-18.	3¾" dia	3020	48	2 10
Piston complete, oversize	1909-18.	.03" over 3020.	3020A	48	2 80
Piston complete, overs ze	1909-18.	.03" over 3020A	3020B	48	2 80
Piston complete, oversize	1909-18.	.03" plus .015	3020C	48	2 80
Piston complete, oversize	1909-18.	.03" plus .030	3020D	48	2 80
Piston complete, oversize	1909-18.	.03" plus .045	3020E	48	2 80
Piston pin	1909-18.	.47/64" dia x3¼" long	3022	25	35
Pist. pin bush.(p'r) pb b'go	1909-18.	½" dia x1⅞" long	3022½	25	40
Piston ring, oversize	1909-18.	⅛"x3¾" plus ⅛"	3023S	25	15
Piston ring, lap joint	1908-18.	⅛x3¾ in.	3023C		20
Piston ring, lap j't, oversize	1908-18.	⅛x3¾ in., plus 1/32 in.	3023D		.20
Connecting rod	1909-18.	Includes bearings	3024	4	2.50
Con. rod cap bolt and nut	1908-18.	⅜x2 in. by 24 third	3025		.10
Con. rod clamp screw	1909 18.	⅜"x1⅛"	3029	50	05
C S. b'r'g bolt, center& f'nt	1908-18.	½"x5/8"x29 thds.	3034	25	.20

NAME OF PART Motor—	Year	Specifications	Part No.	Standard Pack- ages	Price Each.
C. S. bearing bolt nut	1909-18	⅞ x 20 thds.	3035	50	$0 05
C. S. starting pin	1909-18.	⅜ x 2⅜ in.	3040	50	05
Cam shaft front bearing	1909 18.	Cast iron 2" long	3042	25	05
Cam shaft front bearing	1909-18.	.003 to.005 overs ze O D 3042B		25	50
Cam shaft front bearing	1909-18.	.005 to.008 oversize O D.3042C		25	50
Cam shaft front bearing, rough reamed	1909-18		3042D		50
Cam shaft center bearing	1909-18.	Cast iron 2¼" long	3043	25	35
Cam shaft center bearing	1909 18.	.003 to.005 overs ze O D.3043B		25	35
Cam shaft center bearing	1908-18.	.003 to.005 undersize D 3043C		25	35
Cam shaft center bearing, rough reamed	1909 18		3043D		.35
Cam shaft rear bearing, phosphor bronze	1909-18.	1 7/16 in long	3044		25
Cam shaft b'r'g set screw	1909-18.	⅜"x⅝"	3346	50	05
Cam shaft gear dowel pin	1908-18.	⅜"x⅞"	3049	100	.05
Cam shaft small gear key	1909-18.	Special Woodruff key	3051	100	05
Valve	1908-18.	Exhaust and inlet	3052	25	20
Valve	1909-18.	1/64 in. O.S. stem	3052B	25	20
Valve spring	1908-18	2⅝" long	3054	25	60
Valve spring seat	1909-18.		3054	100	02
Valve spring seat pin	1909-18.	7/64"x⅛"	3327	100	01
Push rod	1909 18.	⅜" dia x 2¼"	3058	50	15
Push rod bushing	1909-18	Iron	3059½	50	10
Inlet & exh'st p.pe gasket	1909-18.	1½" O D copper	3063	100	03

REPAIR PARTS

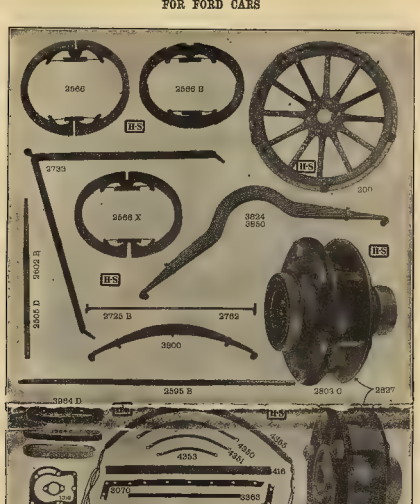
FOR FORD CARS



Motor—Con.	Year	Specifications	Part No.	Standard Package	Each
Inlet & exhaust pipe gland	1909-18	1¼ in. dia. iron	3304	100	$0.95
Breather pipe	1909-18		3568	100	10
Crank case & cyl. g'k't(L)	1909-18, Felt		3070	100	05
Crank case & cyl. g'k't(R)	1909-18, Felt		3071	100	05
Crank case and cyl. cover cap screw	1909-18, ⅝x1 in.		3072		05
Crank case arm bolt and nut, top	1909-18, ⅝x25/32 in.		3074		10
Crank case front b'r'g sc'w	1909-18, ⅞"x⅝"		3078	50	03
" drain cup plug g'k't	1909-18,		3082B	100	.02
Crank cases lower c'v'r g'k't	1912-18, Felt		3102	50	.15
Cyl. valve cover gasket	1912-18, Felt		3111	100	05
Cyl. valve cover nut	1912-18, ⅝"x24 thds.		3113	100	.03
Commutator—					
Commutator only	1912-18,		3155		1 70
Com. brush assembly	1912-18,		3165	24	75
Com. roller	1912-18, .43/64" O. D., ⅞" long		3197	25	10
Com. felt ring	1912-18, Felt		3177	100	.03
Com. contact point nut	1910-18, ⅞" hex		3210	100	03
Com. con. p'nt fibre insul'r	1909-18, ⅞"x¼" long		3211	100	05
Com. case with fibre assmb	1912-18,		3221		90
Magneto—					
Mag. spool support screw	1909-18, ⅝"x⅝"		3252	100	05
Magnet bolt	1909-18 ⅝"x1½ in		3254		05
Fly wheel cap screw	1909-18, 13 7/16x1 5/16 in.		3270		10
Fly wheel dowel pin	1909-18, ⅛"x⅞"		3271	50	05
Transmission—					
Trans. rev. gr. bush. ph. brz	1909-18, ⅞" rear		3304	12	.70
Trans. sl. spd. gr. bu. ph. brz	1909-18 1¼" ream		3309	12	75
Trans. triple c gear assembly			3313		3.00
Trans. triple gear bushing, phosphor bronze		1 in. diam. by 1 19-32 in. long	3314		20 46
Trans. triple gear shaft	1909-18,		3316	12	60
Trans. driven gear key	1909-18, "B" Woodruf	dia.x⅜"	3318	25	05
Trans. driving gear sleeve bush., phos. bronze	1909-18, 1" ream x flange 2⅝"		3320B	25	.65
Trans. driving gear sleeve bush., phos. bronze	1909-18, 1¼" long		3320C	25	.40
Trans. driving plate screw	1909-18, ¾"x⅜"		3323	100	.05
Trans. driving plate key	1909-18, "A" Woodruf		3324	25	05
Trans. clutch disc d'rs key	1909-18, "C" Woodruf		3327	25	05
Trans. cover bolt and nut	1909-18, ⅜x1 3/32 in.		3362	100	.05
Trans. cov.fall gask.(front)	1909-18, 5/8"x⅛"x25¼"		3363	100	05
Trans. cover door screw	1909-18, ⅜"x25"		3367	100	05
Universal ball cap bolt	1909-18, ⅜"x1⅜"		3371	100	05
Trans. cov. felt gask. (pr)	1909-18, Felt		3377	25	10
Trans.cov. slop door gask.	1911-18, Felt		3379	50	05
Transmission Control—					
Clutch lever screw & nut	1909-18,	⅝ x1 5/16 in.	3403	25	05
Clutch lever pin	1909-18,	⅝"x1 ⅝"	3405	100	02
Clutch release fork key	1909-14,	No. 7 Woodruff	3408	100	05
Clutch lever clevis pin	1909-18,	⅜"x1"	3411	100	05
Trans. band assembly	1909-18		3412		60
Trans. band washer	1909-18,	29/64" hole x ⅝" dia	3415	100	05
Trans. band lining	1909-18,		3416	25	30

REPAIR PARTS

FOR FORD CARS



NAME OF PART	Year	Specifications	Part No.	Standard Packages	Price Each
Transmission Control—Con.					
Perfection brake lin.(set, 3)	1909-18,		3416P	1 set	$2.00
Speed lever clevis pin	1909-18,	$\frac{5}{8}$"x1"	3433	100	.05
Brake & rev.sup. bolt & nut	1909-18,	$\frac{5}{16}$"x1$\frac{1}{2}$"	3437	50	.06
Pedal pin	1909-18,	$\frac{1}{4}$"x1$\frac{3}{8}$"	3441	100	.02
Controller shaft br'ket felt	1909-18,		3481	100	.02
Cont. shaft bracket & nut	1909-18,	$\frac{5}{16}$"x1$\frac{1}{2}$"	3482	100	.05
Hand brake lever key	1909-18,	No. 9 Woodruff	3487	100	.05
Hub brake lever pin	1909-18,	$\frac{1}{4}$"x1$\frac{3}{8}$"	3486	100	.02
Steering Gear—					
Steering gear pinion pin	1909-18,	$\frac{1}{4}$"x1$\frac{3}{8}$"	3518	100	.05
Commutator pull rod	1912-18		3534B	50	.10
Carburetor pull rod	1912-18,	14$\frac{5}{8}$" long	3535	50	.10
Ball and socket joint	1909-18,		3536	100	.10
Ball and socket joint nut	1909-18,	7/16"-20 x 32 thds.	3537	100	.05
Carburetor pull rod adjust.	1909-18,	$\frac{5}{16}$" x 32 thds.	3538	100	.10
Steering post bracket felt washer	1909-18,		3544	100	
Steering gear ball arm key	1905-18,	$\frac{5}{16}$"x1$\frac{1}{2}$"	3002D	50	.10
Steering post bracket grease cup	1909-18,	Woodruff $\frac{1}{4}$" pipe thds.	3015	100	.05
			3563	50	.10
Body Parts—					
Body bracket con. bolt & nut					
Front floor rubber matting	1915-18,	28$\frac{1}{4}$x39 7/16 in.	3624B	10	2.00

NAME OF PART	Year	Specifications	Part No.	Standard Packages	Price Each
Springs—					
Front spring tie bolt & nut	1909-18,	$\frac{5}{16}$"x2$\frac{1}{4}$"	3511	50	$0.10
Front spring hanger	1909-18,		3513	20	.05
Front & rear spr hang nut	1909-18,	$\frac{5}{16}$" x 30 thds.	3515	100	.05
Rear spring clip nut	1909-18,	$\frac{5}{16}$" x 18 thds.	3834	100	.05
Rear spring tie bolt & nut	1909-18,	$\frac{5}{16}$"x2$\frac{1}{4}$"	3837	50	.10
Rear spring hanger	1909-18,		3840	20	.05
Rear spring perch bushing	1909-18,	7/16 in. bore by $\frac{3}{4}$x3 in.	3844	100	.05
Radiator Fan—					
Fan shaft	1909-18,		3356	25	.20
Fan bracket bolt	1909-18,	$\frac{1}{2}$"x2$\frac{3}{8}$" in.	3362	100	.10
Fan drive pulley	1909-18,	Steel lower	3363	25	.20
Fan grease cup	1909-18,		3870	50	.10
Wiring—					
Spark plug wire	1909-18	12", No. 1 cyl	4350	50	.15
Spark plug wire (also mag to coil)	1909-18	11$\frac{1}{2}$", No. 2 cyl	4351	50	.15
Spark plug wire	1909-18	8", Nos. 3 and 4 cyls.	4353	50	.10
Spark plug wire terminal	1909-18,	Copper	4354	100	.03
Ford Spark Coil—					
Switch plug	1914-18,		4731	100	.05
K. W vibrator bridge with tungsten point	1914-18,	Pairs	4732		.85
K. W vibrator with tungsten point	1914-18,	Only	4734		

REPAIR PARTS

FOR FORD CARS

Minute Demountable Wheel For the Ford Car

A Great Improvement over the Demountable Rim in Every Way

ONE minute is all the time a driver needs in changing a tire with a Minute Demountable Rim. The operation is so simple that he can do it in the dark. The removal of one large nut on hub is all that is required. Here are the uses of this new and practical wheel: One wheel with extra flange, fitted with strong powerful driving lugs—a set of four hubs interchangeable, to replace the Ford hubs and the minute wrench.

Extra Strong, Powerful Driving Lugs.

The present Ford Wheels are retained but new hubs and an extra flange are supplied adding greatly to the strength of the wheels. This wheel can be carried on regular tire holder. Weight no more than demountable rim.

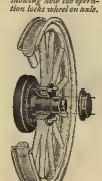
Note the strength shown in the rear hub. Ideal for Ford Trucks.

The two front hubs—interchangeable, to replace Ford hubs. Built for strength and wear.

Rear hub—note weight is here, not in run of wheel which is a decided tire and power saver.

Cross section of wheel showing how the operation locks wheel on axle.

This is the Minute wrench which is the only tool a driver needs to remove wheel.



The Demountable Wheel is the natural evolution of the demountable rim. Tire changing is so easy with it that not only does it remove all the uneasiness and annoyance of possible tire troubles but the Ford owner will get the last mile possible out of a tire.

A booklet, "The Minute Wheel," describing the advantages of this time and trouble saver, will be sent on request. Send for it. Ford owners will be glad to get it.

H-S

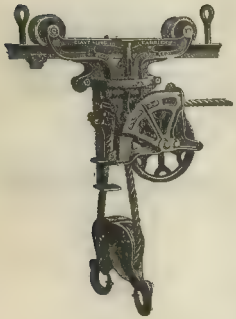
No. 239	Minute Demountable Hubs, complete with 30x3½-inch wheel	Per set,	$35.00
No. 240	Minute Demountable Hubs, without Wheel	" "	30.00
No. 241	Minute Front Hub Only (Specify right or left)	Each,	5.00
No. 242	Minute Rear Hub Only (Specify right or left)	"	5.00
No. 243AR	Minute Wheel Lock Nuts, new style, right	"	1.00
No. 243AL	Minute Wheel Lock Nuts, new style, left	"	1.00
No. 243	Minute Wheel Nuts	"	1.25
No. 244	Minute L-Shaped Flange	"	1.75
No. 245	Minute Wrench	"	1.25
No. 246	Minute Hub Bolts (30 included in No. 239)	"	10
No. 247	Minute Hub Bolt Nuts (30 included in No. 239)	"	.06
No. 248	Minute Hub Flange	"	.25
No. 249	Minute Spare Wheel, 30x3½ in., no hub, reamed	"	5 00
No. 250	Minute Reamer for reaming large hole	"	5.50
No. 250A	Reamer Cutter only	"	1 50
No. 251	Minute Locking Key, old style	"	.10
No. 251A	Minute Ratchet Spring, new style	"	.15

SEATTLE HARDWARE COMPANY

HAY CARRIERS

THE HARVESTER HAY CARRIER

Reversible Sling Carrier.



HARVESTER GIANT SLING CARRIER

Roller Bearing for Star Double Flange Steel Track

Extra Heavy and Extra Strong, Designed for Heavy Work; Is of Simple Design and of Few Parts. The chance of its getting out of order is very slight. It is practically trouble-proof.

It is a Reversible Carrier and will take in Hay from either End or Both Ways from the center of the barn.

It is so constructed that the load hangs directly beneath the center, and the loaded carrier is evenly balanced. This distributes the load evenly to all four tracker wheels. It gives an even bearing on both sides of the track so that the carrier operates easily and smoothly.

SPECIFICATIONS

Frame—Best grade malleable iron, fully reinforced. Extra heavy and large so as to distribute the load over a large section of the track.

Wheel Base—17½ inches from center to center of tracker wheels.

Tracker Wheels—Grey iron. 3 inches in diameter. Wide flange.

Axle—Lathe-turned steel axle, made by automatic machinery.

Sheave—9½ inches in diameter. Best grey iron.

Sheave Bearings—This Carrier is fitted with special extra long roller bearings, contained in a housing.

Sling Pulleys—The sling pulleys provided with this carrier are Harvester Long Neck Pulleys. These pulleys are made with a malleable frame of improved design, provided with automatic closing hook. The sling or fork snaps into this hook and can easily be detached, but it cannot possibly be detached by accident. The hooks are large enough to be used in connection with any style or make of rope or slings or any style of fork. A wide throat with rounded edges prevents wear on the rope.

Automatic Rope Gripping Device—This Carrier is provided with a gripping device or lock which has a long gripping surface. This gripping surface conforms to the circle of the large wheel. When the hoisting rope is slackened the gripping surface travels with the wheel and sets gradually. This does not mean that the rope slips through the grip, but the grip travels with the rope and clamps firmly at the point where it first takes hold, without chafing or wearing the rope. The extra long gripping surface naturally insures a firm and safe purchase on the rope and holds it securely without chafing.

The small rope attached to the lever as shown in the illustration releases the grip on the draft rope and allows the sling to return to the load.

Rope—¾-inch, ⅞-inch or 1-inch rope may be used. ⅞-inch pure manilla rope recommended for best results.

Directions—Directions for installing sent with each carrier.

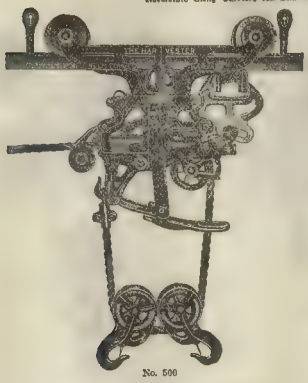
Finish—Gray enamel, trimmed in red.

	Each
No. 687—Weight Each about 57 Lbs.	$19.50

Full Set of Directions and Illustrations, Explaining the Simple Manner in which this Carrier is Roped and Operated, is Sent with Each Carrier and Mailed upon Application.

THE HARVESTER SLING HAY CARRIER

Reversible Sling Carriers for Star Double Flange Steel Hay Carrier Track



No. 500

SPECIFICATIONS FOR NO. 500

Frame—Best Grade Malleable Iron, fully reinforced, extra heavy and long wheel base so as to distribute the load over a greater portion of the track.

Wheel Base—17½ in. center to center of tracker wheels.

Tracker Wheels—Best Gray Iron, 3 in. in Diameter at the Tread, Wide Flange, Hub Drilled to take Steel Axle.

Axle—This is a Lathe-turned Steel Axle made by the most Modern Automatic Machinery.

Sheaves—Two in number, made of Best Gray Iron, Drilled to take Steel Axles. Frame of large sheave is hinged to rope gripping lever allowing sheave to adjust itself in line of draft, thus preventing rope chafing over edge of sheave.

Sling Pulleys—Malleable Frame of Improved Design. Extra Wide Flanges with Rolled Edges, preventing chafing of draft rope. Pulley hooks are large enough to be used in connection with forks. The hooks on our sling pulleys are fitted with a self-locking device, preventing slings or forks from becoming detached except at will of operator.

Lock—Five in. Malleable Iron Rope Grip so constructed that when pulleys strike tripping arm the lock slides forward and grips rope without chafing it and at the same time locks it securely. This operation automatically releases car from trip block. The heavier the load the greater the tension on the lock, with the result that it is impossible for the rope to slip through the lock. It is also arranged with a special trip rope by the use of which the load may be carried into the mow at any desired elevation.

Trip Block—Made of Best Malleable Iron, of special design, with a depression on the under side bolting over a rivet head on the track, thus making it absolutely impossible to loosen.

Rope—This Carrier is designed for use with rope only and we recommend ⅝ in. or ¾ in. Pure Manila as being the most serviceable.

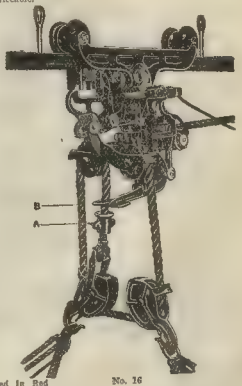
SPECIFICATIONS FOR NO. 16

Has the same Frame, Wheel Base, Tracker Wheels, Axle, Pulleys, Lock, Trip Block, etc., as shown in Specifications for the No. 500.

This Carrier was Especially Designed to be used by those wishing to operate a Sling Hay Carrier in Connection with the Triple Draft of Purchase.

With each Carrier is furnished an Adjustable Trip Casting as shown in the illustration, which is Fastened at Any Point on the Rope.

While the load is being elevated to the desired height the Carrier is held rigidly at the Trip Block. By the use of the Adjustable Trip, the Carrier is Automatically Released when the Load is at the Desired Height. Carrier is also equipped with a Special Trip Rope which may be used to Release Load at any time



No. 16

Aluminum Finish, Trimmed in Red

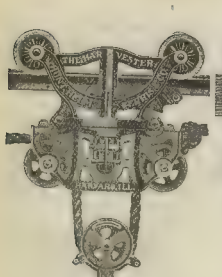
	Each
No. 500—Weight Each About 55 Lbs	$18.00
No. 16—Weight Each About 49 Lbs	14.50

Full Set of Directions and Illustrations, Explaining the Simple Manner in which this Carrier is Roped and Operated, is Sent with Each Carrier and Mailed Upon Application

HAY CARRIERS

THE HARVESTER HAY CARRIER

Reversible Fork Carrier



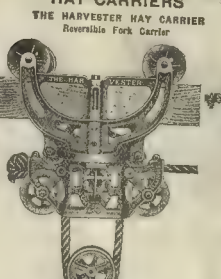
No. 502

FOR STAR DOUBLE FLANGE STEEL TRACK

This Carrier is fitted with an extra wide open mouth for engaging the fork pulley, which locks and holds the load no matter at what angle pulley enters the Carrier

Wheel Base—11½ inches, Center to Center

Tracker Wheels—Best Grey Iron, 3 inches in diameter at the tread, wide flange hub, drilled to take steel axle.



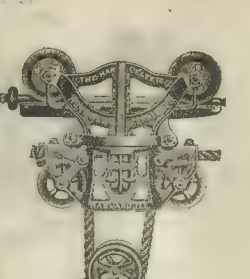
No. 503

FOR WOOD TRACK

Similar to No. 502, except that trucks and tracker wheels are especially designed for **Wood Track.**

Wheel Base—12 inches from Center to Center.

Tracker Wheels—Best Grey Iron, 3 inches in diameter at the tread, with wide flanges, and hubs drilled to take steel axle.



No. 504

FOR CABLE TRACK

Similar to No. 502, except that Carrier is fitted with trucks and trackes wheels designed for ⅞ **in. Cable.**

The Trip Block swings loose on the track and stands directly under the table under all conditions It can be located at any desired point on the cable or it can be detached from the track without taking the track down.

SPECIFICATIONS

Frame—Best Grade Malleable Iron, fully reinforced.

Finish—Aluminum, Trimmed in Red

Star Nut Lock—Special Star Feature used to prevent the frame bolts from working loose This is an exclusive feature of all Harvester Carriers and insures absolute rigidity

Wheel Base—11½ inches, Center to Center.

Tracker Wheels—Best grey iron, 3 inches in diameter at the tread, wide flange hub, drilled to take steel axle.

Axle—This is a lathe-turned axle, made by the most modern automatic machinery.

Sheaves—4 inches in diameter. Best grade grey iron, drilled to take steel axle.

Sheave Bearings—Special automatically lathe-turned steel bearing, much superior to the bushing and bolt ordinarily used.

Sling Pulleys—May be used in place of fork pulley, allowing use of slings when desired.

Fork Pulleys—Latest design, mounted in heavy frame which is reinforced at locking portion. All fork pulleys are supplied with sister hooks for holding fork, including a universal freedom of movement Fork Pulleys are furnished with rope guards, making it impossible for rope to leave the sheave.

Sister Hooks—Special feature with all Star Carriers. Constructed of two Malleable Iron Castings, swiveling on steel bolt. By the use of these Hooks a fork may be quickly detached. Clevis.

Lock—Improved type of gravity lock No springs to rust out or break This lock embodies the double grapple principle, permitting pulley to enter at any angle and holding it securely. Simple in construction and positive in action.

Trip Block—Made of best Malleable Iron of special design, with a depression on the underside bolting against the I beam on the track, thus making it absolutely immovable to locate.

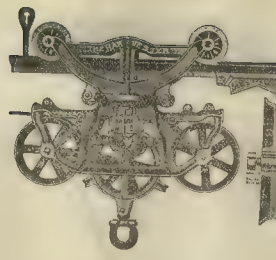
Rope—This Carrier is designed for use with rope and we recommend ¾ to ⅞ inch pure Manila as being the most serviceable.

	Each
No. 502—For **Star Double Flange Steel Track;** Weight, About, 35 Lbs.	$10.50
No. 503—For **Wood Track;** Weight, About, 35 Lbs.	10 50
No. 504—For **Cable Track;** Weight, About 35 Lbs.	10.50

Full Set of Directions and Illustrations, explaining the Simple Manner in which Carrier is Roped and Operated, is Sent with Each Carrier and Mailed Upon Application

HAY CARRIERS

THE HARVESTER HAY CARRIER
Sheaves Grooved for Either Rope or Cable



SPECIFICATIONS

Frame—Best grade Malleable Iron, fully reinforced.
Finish—Aluminum, trimmed in red.
Star Nut Lock—Special Star Feature used to prevent the frame bolts from working loose. This is an exclusive feature of all Harvester Carriers and insures absolute rigidity.
Wheel Base—15½ inches, center to center.
Tracker Wheels—Best gray iron, 3 inches in diameter at the tread, hub drilled to take special steel axle.
Axle—This is a lathe-turned steel axle made by the most modern automatic machinery.
Sheaves—7 inches in diameter, best gray iron, drilled to take steel axle. The three large sheaves on this Carrier are grooved for ⅝ inch rope or ½ inch wire cable, as desired.
Sheave Bearings—Eleven ⅝ inch steel roller bearings, revolving on ⅝ inch steel shoulder pin.
Fork Pulleys—Improved design, fitted with a ¾ inch roller bearing sheave and sister hook.
Sling Pulleys—May be used in place of fork pulley, thus allowing use of slings when desired.
Sister Hook—Special feature with all Star Carriers. [illegible] of two Malleable Iron Castings, swiveling on steel bolt [illegible] of this hook, the fork may be quickly detached. Much sup[illegible] ordinary hook and clevis
Lock—Improved type of gravity lock. No springs to rust out or break. This lock embraces the double grapple principle, permitting pulley to enter at any angle and holding it securely. Simple in construction and positive in action.
Trip-Block—Made of best Malleable Iron, of special design, with a depression on the under side bolting over a rivet head on the track, thus making it absolutely impossible to loosen.
Rope—This Carrier is fitted with sheaves so designed that it may be used with either ¾ inch or ⅝ inch Manila rope or ½ inch wire cable and without any changing of the Carrier.

No. 493—For **Star Double Flange Steel Track**; Weight, About, 48 Lbs. ..... Each $13.50
No. 494—For **Wood Track**, Otherwise same as above, excepting has Wheel Base of 15¾ in., and Tracker Wheels are 4 in. Diameter; Weight, About, 50 Lbs. $13.50
No. 496—For **⅝ in. Cable Track**, Otherwise same as No. 493; Weight, About, 54 Lbs. 13.50

STAR CROSS DRAFT SLING HAY CARRIER
Adjustable to All Standard Makes of Track

This Carrier is called "Cross Draft" from the fact that the draft rope runs from the carrier across the barn direct to the team, at a saving of considerable rope as compared with the old method, thus lessening the friction to a minimum. The Cross Draft Carrier, having so few parts, lessens to the extreme the probability of its getting out of order.

Adjustment—This Carrier is so constructed that it can be adjusted to fit other steel hay carrier tracks. This is done by turning the right and left hand tread bolt near center of carrier legs as shown. The Star Cross Draft Carrier is the only Carrier where the working parts are hinged on the adjusting bolt of the carrier in direct line with the load, thus keeping ropes perfectly straight and free, preventing binding and cutting. The legs of this Carrier oscillate on the adjusting bolt, thus allowing every wheel to carry its part of the load. The oscillating or swinging feature allows Carrier with load to pass over an obstruction or full mow without additional strain on track or Carrier.

SPECIFICATIONS

Frame—Best grade Malleable Iron, fully reinforced. Extra heavy and long so as to distribute the load over a greater portion of the track.
Finish—Royal Blue, Gold Bronze Trim
Wheel Base—16½ inches center to center of tracker wheels.
Tracker Wheels—Best gray iron, 3 inches in diameter at the tread, wide flange, hub drilled to take steel axle.
Axle—This is a lathe-turned steel axle made by the most modern automatic machinery.
Sheave—Six inches in diameter, best grade gray iron, drilled to take large steel bearing
Sheave Bearings—⅝ inch steel bearing
Sling Pulleys—Malleable frame of improved design. Extra wide flanges with rolled edges, preventing chafing of draft rope. Pulley hooks are large enough to be used in connection with any style or make of rope or chain slings, or in connection with forks. The hooks on our sling pulleys are fitted with self-locking device, preventing slings or forks from becoming detached except at will of operator.
Automatic Rope Gripping Device—This Carrier is provided with a gripping device or lock having 4 inch gripping surface and curved to conform to circle of large sheave. When hoisting rope is slackened, locking device travels with sheave thus clamping rope securely and with absolutely no chafing. The small rope attached to the lever as shown in illustration, when pulled, releases grip on draft rope and allows slings to return to load.
Trip Block—No trip block is used with this Carrier, it being unnecessary as the draft rope pulls at right angles to the track.
Rope—This Carrier is designed for use with rope only and we recommend ¾ inch or ⅝ inch pure Manila as being the most serviceable

No. 575—Cross Draft Sling Hay Carrier; Weight, About, 21 Lbs. ..... Each $19.50
Full set of directions and illustrations explaining the simple manner in which this Carrier is roped and operated, is sent with each Carrier and mailed upon application

STAR DOUBLE FLANGE STEEL HAY CARRIER TRACK AND FIXTURES

No Tools required to erect this Track in the Barn except a Wrench and Hammer. No Drilling or Punching necessary to fit the Splice; it is all done before leaving the factory

STAR DOUBLE FLANGE STEEL TRACK

Per Foot

No. 142—With Rivets 9 in. Apart, Outside Dimensions, 1⅝x 1¾ in.; Carried in 6, 8 and 10-Foot Lengths . . . $0 30

Weight, 1½ Lbs. Each

SPLICE BLOCKS

Each

No. 143 For Double Flange Steel Track. $0 60

Weight, 1½ Lbs. Each

STOP BLOCKS

To every Hay Carrier is Attached Two End Stops or Stop Blocks, same as shown above, which are furnished Gratis as it is therefore not necessary for a Dealer to handle any separately

STEEL TRACK HOOKS

For Hanging Star Double Flange Track

Per Dozen

No. 148 Malleable Iron: 5¼ in Long $2 10

Weight 4 Lbs. per Dozen

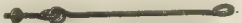
V END HANGERS

This Hanger is used to support Steel Track when hay is taken in at the end of barn.

Per Dozen

No. 88 V End Hangers $3 50

Weight 14½ Lbs. per Dozen



TRACK RODS

For Use with Combined End Hangers and Stops, to prevent the Track from working endwise, or crawling.

Per Dozen

No. 72—Rod, ½x24 in.; Bolt, ½x6 in. Long. . . . $3 40

Weight 18 Lbs. per Dozen

WOOD TRACK FIXTURES

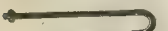
JOINTED TRACK HANGER

For Hanging Wood Track

Per Dozen

No. 83—Wrought Iron; ½ in. Diam. 14½ in. Long.....$3.00

Weight 13 Lbs. per Dozen



TRACK HANGER HOOKS

For Hanging Wood Track

Per Dozen

No. 84—14 in Long After Bent . $1 80

Weight 12 Lbs. per Dozen

RIDGE POLE HANGERS

By driving a nail in each slot, can be made secure enough to hold any track.

Per Dozen

No. 87—Best Malleable Iron: For Bridge Poles, 2x6 or 2x8 in $2 25

Weight 6 Lbs per Dozen

RAFTER BRACKETS

For Steel or Wood Tracks, Hooks and Eyes

Per Dozen

No. 128—Malleable Iron: ⅛ in Diameter at Base of Eye; 7 in. Wide from Point to Point..... $0.90

Weight 4½ Lbs. per Dozen

HAY CARRIER FIXTURES

STEEL RAFTER GRAPPLES

For suspending pulleys from rafters or beams; Much more convenient than trying to hang a pulley with a rope in the peak of a barn.

Per Dozen

No. 89—8¼ in. Spread. Cast Steel Hooks, ¾ in. Proof Chain ...$15.00

Weight 30 Lbs. per Dozen

TRACK SUPPORTING FIXTURES

For supporting Steel Hay Carrier Track at end of barn. It is important that the track at end of barn should be well supported, because the heavy pull is at this place.

Per Set

No. 73—Consists of Two Heavy, Angle Shaped Castings with Bolts; One Bar ⅛ in. Round Iron, 8 ft. Long, with Eye and Nut; Two Malleable Hangers for 2x6 or 2x8 in. Ridge Pole.....$3.60

Weight 12 Lbs. per Set

SWIVEL ROPE HITCHES AND HOOKS

One of the handiest and most useful articles in a Hay Tool Outfit; No hard knots to untie; Twisting the rope is prevented by the swivel.

Per Dozen

No. 86—Malleable Iron; Length Overall, 3¼ in.....$4.80

Weight 16 Lbs. per Dozen

Cut showing how the **Track Supporting Fixtures** are applied

SNATCH BLOCK PULLEYS

This device shortens the travel of the horse. Tie a knot in the rope and put the washer in front of it. The rope can be thrown off the pulley and thus allow the fork to be instantly returned to the load without waiting for the horse.

Per Dozen

No. 90—Snatch Pulley Block.....$16.50

Weight 60 Lbs. per Dozen

HARVESTER SLING PULLEYS

For Carriers Nos. 502, 503, 504, 493, 494 and 496

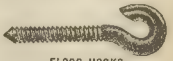
Can be used with any make of Fork Carrier, where wagon slings are wanted to replace the Fork.

Per Set

No. 553—Peerless Sling Pulleys....$4.50

Weight 10 Lbs. Each

When ordering for any Carrier than those numbered above, give **Registering Head** wanted.



FLOOR HOOKS

Used in Anchoring Pulleys in Hay Carrier Outfits

Rough Finish, Wrought Iron; Cone Point; Lag Screw Thread

Per Dozen

No. 85—⅝x8 in.....$1.80

No. 85A—¾x12½ in.....2.10

Weight, 85, 8 Lbs.; 85A, 12½ Lbs. per Dozen

HAY CARRIER RETURNER

With the use of this Hay Carrier Returner, you will have no more trouble getting the Carrier back to the Trip Block. As soon as the Hay Rope is unhooked from the whiffletree, this machine will **Draw the Carrier Back to the Trip Block, Without Any Aid,** and the Fork can be set up the time the horse has returned and is ready to draw up another load. No farmer can afford to do without it. **It will Work with Any Make of Carrier.** No weight is furnished, as it is necessary to vary this according to the length of rope used. A bag of sand will do.

It is a great labor saver, as where a returner is not used, the operator must pull the Carrier back by main force. Can be fastened to barn with nails or bolts.

Each

No. 91—Circumference Small Drum 3¼x4 in.; Large Drum 3¼x12¾ in. ⅝ in. Holes in Brackets $3.00

Weight Each About 60 Lbs.

HAY SLINGS

For Handling Fine or Coarse Hay, Straw, Corn, Stalks, Bundles of Grain, Baled Hay, etc.; To Save Time and Work to Best Advantage, Use a Set of Three Slings for One Load; When Using Double Purchase Carriers, and Set of Two Slings in Triple Purchase Carriers.

O. K. CENTER TRIP SLINGS

½ in. Rope, Loose Twist, will not Gnarl or Twist; Adjustable Take-up at Either End so that they can be Shortened or Lengthened to suit the length of Hayrack.

With Two Ropes

	Each
No. 55 —4-Foot Hardwood Bars; Weight 13 Lbs.....	$4.50
No. 55A—5-Foot Hardwood Bars; Weight 21 Lbs	7.00

With Three Ropes

No. 58 —5-Foot Hardwood Bars; Weight 23 Lbs.....	6.00

HARVARD CENTER TRIP SLINGS

½ in. Rope; Loose Twist; Made for Heavy Work. This Sling is Specially Roped, it forms a bed or net sufficient close to carry Fine Hay or Grain satisfactorily no matter how short or dry, leaving no littering.

With Four Ropes

	Each
No. 56 —5 Foot Hardwood Bars; Weight 29 Lbs ...	$7.50
No. 56A—6-Foot Hardwood Bars; Weight 33 Lbs... ...	7.50

OLSEN'S PATTERN HAY SLINGS

Made with ½ in. Loose Twist Ropes, that will not Gnarl or Kink. They have an Adjustable Takeup at one end so they can be shortened or lengthened as desired

	Each
No. 549-2—Two Rope Sling; Weight 5½ Lbs...	$2.25
No. 549-3—Three Rope Sling; Weight 5½ Lbs...	3.00

CENTER TRIP ADJUSTABLE ROPE SLING
Adjustable to Any Width

	Each
No. 480—16-Foot; Weight 7 Lbs.....	$3.40

CHAIN HAY SLINGS

Recommended for Heavy Work; Extra Strong Non-kinking Galvanized Chain. Center Bars 14 In. Apart

	Each
No. 393—With **Three Chains**; 5-Foot Hardwood Bars.....	$10.50
No. 479 With **Four Chains**; 6-Foot Hardwood Bars .. Weight, No. 393, 80 Lbs.; No. 479, 35 Lbs. Each	13.50

SLING LOCKS

CENTER TRIP

Made of Malleable Iron, is Light, Strong and Fully Warranted. It is impossible to misplace this Lock on a Wagon; It makes no difference in what position you put it, it is operative however placed.

	Each
No. 57—Weight ⅛ Lb. Each.....	$1.50

END TRIP, SINGLE HOOK

Provided with One Large Hook only, from which Braided Loops at End of Rope Sling may be Hooked. This Style of Lock is Used with Home Made Slings.

	Each
No. 552—Weight 2 Lbs. Each	$2.25

END TRIP, DOUBLE HOOK

Provided with Two Hooks that Engage Rings on End of Sling. This Style of Lock is Used with such Slings as the Olsen Pattern.

	Each
No. 551—Weight 2 Lbs. Each.....	$2.25

HAY CARRIER FORKS

HARRIS SHORT HEAD Each

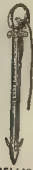
No. 95—Double Harpoon, 15 in. Wide. 25 in. Long from Point to Cross Bar; 36 in Long Overall; Spring Steel Tines.....$2.40
Weight 16½ Lbs. Each

HARRIS LONG HEAD Each

No. 97—Double Harpoon, 16 in. Wide, 31 in. Long from Point to Cross Bar; 42 in Long Overall; Spring Steel Tines.....$3.00
Weight 18 Lbs. Each

ALFALFA Each

No. 98—Double Harpoon, 20¼ in. Wide, 33 in. Long from Point to Cross Bar; 48 in Long Overall; Extra Large and Strong...$5.55
Weight 29 Lbs. Each



NELLIS

No. 94—Single Harpoon, 28 in. Long from Point to Cross Bar. ....$4.50 Each
Weight 11 Lbs. Each

GRAPPLE

Made of Spring Steel; Will Handle Loose or Baled Hay, Alfalfa, Straw, etc.

No. 99—Four Tine, 16 in Wide; 36 in. Spread .....$13.50 Each
Weight 38 Lbs. Each

No. 100—Six Tine, 22 in Wide; 54 in. Spread.....$15.75 Each
Weight 47 Lbs. Each

HAY CARRIER PULLEYS

KNOT PASSING PULLEYS

A Knot Passing Pulley, while not an absolute necessity, is very convenient; in case the rope is broken it can still be used as the knot will not interfere with the working of the Pulley.

Per Dozen

No. 103—Malleable Frame, 6 in. Maple Sheave, which revolves on Hollow Pin; Malleable Swivel Eye $6.90
Weight Dozen 34½ Lbs.

Per Dozen

No. 105—Steel Frame; 6 in. Maple Sheave, which revolves on Large Bushing; Malleable Swivel Eye.$6.00
Weight Dozen 36½ Lbs.

HARD MAPLE SHEAVES

Diameter, in 6

Per Dozen..... $2.40

HAY FORK PULLEYS

Per Dozen

No. 101—Cast Frame; 6 in. **Maple Sheave,** revolving on Large Hollow Pin. Malleable Swivel Eye $4.80

Weight Dozen 37 Lbs.

Per Dozen

No. 109—Cast Iron Frame, with Heavy Strength; 5½ in. Cast Iron Sheave, which revolves on Large Hollow Pin..... $4.80

Weight Dozen 38 Lbs.

Floor Pulley

Per Dozen

No. 110—Malleable Iron Frame, with floor weight, protects the sheave. 5 in. **Maple Sheave,** which revolves on Hoisted Pin. Swivel Eye..... $6.75

Weight Dozen 39 Lbs.

Per Dozen

No. 125—Malleable Iron Frame 6 in. Iron Sheave, Roller-Bearing Malleable Swivel Eye $14 40

Weight Dozen 60 Lbs.

Per Dozen

No. 111—Wood Frame, with Wrought Steel Yoke and Malleable Swivel Eye. 5 in. **Maple Sheave,** which revolves on Large Bushing. $6.00

Weight Dozen 33 Lbs.

Per Dozen

No. 112—Wood Frame, with Wrought Steel Yoke and Malleable Swivel Hook; 5 in. **Maple Sheave,** which revolves on Large Bushing ..$6 00

Weight Dozen 35 Lbs

Per Dozen

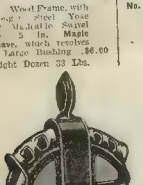
No. 113—Malleable Iron Frame with Steel Yoke and Malleable Swivel Eye. 6 in. **Maple Sheave,** which revolves on Large Bushing ..$6 00

Weight Dozen 41 Lbs

Per Dozen

No. 127—Malleable Iron Frame, with Malleable Swivel Eye. 6 in. **Maple Sheave,** which Revolves on Hollow Pin. Will not Chafe Rope $6 00

Weight Dozen 36 Lbs.



BIG STAR

Malleable Iron Frame, Extra Strong and Heavy, with Steel Yoke and Malleable Swivel Eye. **7 in. Hard Maple Sheave, Revolving on Large Bushing.**

Per Dozen

No. 116—Weight per Dozen 52 Lbs $11 40

GIANT

Wood Frame, Bolted and Braced; Heavy Steel Yoke; Large Wrought Iron Pulley Hook; **10 in. Hard Maple Sheave,** turning on Bushing 1¾ in. Diameter. Bushing Fits into Bottom of Steel Yoke.

Per Dozen

No. 554—Weight per Dozen 102 Lbs $27 60

WIRE CABLE

For ⅜ or ½ in. Wire Rope

Per Dozen

No. 45—High Carbon Steel Frame. Heavy Machine Bolt passes through Bushing, holding Frame Solid; 1¾x7 in Cast Iron Sheave, Turning on Steel Bushings $21.80

Weight 50 Lbs. per Dozen

LITTER AND FEED CARRIERS

FULL ROLLER BEARING FOR USE ON STAR DOUBLE ANGLE STEEL TRACK

Construction

Made of Malleable Iron and Steel throughout, with substantial Tub of Galvanized Steel. This Carrier has two swivel trucks fitted with two tracker wheels each, provided with **Steel Roller Bearings.** The swivel trucks afford a double bearing on the track which allows the carrier to run steadily. To each of the swivel trucks is attached a supporting bracket in which revolves the roller bearing shaft on which the supporting chains wind. Tub is supported by channel steel bails which are attached to the roller bearing shaft by an electrically welded steel chain which is run under the pulley at each end of the shaft, making it possible to lift a heavy load easily and quickly.

Operation

The tub is raised by means of an endless chain that runs over the main driving wheel at the end of the shaft. It is lowered by pulling the chain which releases the ratchet allowing the tub to freely descend to any desired point. When the tub is raised up to the shaft it becomes perfectly rigid so that there is no swinging motion.

If desirable to follow the carrier out to the dumping place the tub can be tripped and dumped by a rope attached to the trip chain. However, it is not necessary to leave the barn to run this carrier out, dump it wherever desired and return it to the barn.

LITTER CARRIERS

	Each
No. 333-2—Complete with No. 2 Galvanized Tub; Capacity 6 bu.; Width 26 in., Length 41 in., Depth 14 in.; Weight 95 Lbs.	$ 6.90
No. 333-4—Complete with No. 4 Galvanized Tub; Capacity 8 bu.; Width 26 in., Length 41 in., Depth 17 in.; Weight 103 Lbs.	7.20
No. 333-6—Complete with No. 6 Galvanized Tub; Capacity 10 bu.; Width 26 in., Length 41 in., Depth 19 in., Weight 111 Lbs.	20.00

FEED CARRIERS

No. 334—Same as No. 333 Litter Carrier, but equipped with Feed Tube; The Tub is made of Hardwood, bound with Galvanized Iron. Capacity 6 bu., Width 26 in., Length 68 in., Depth 24 in.; Weight 112 Lbs. 27.00

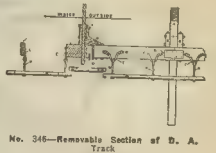
Tub of No. 334 Feed Carrier

LITTER AND FEED CARRIER PARTS

For Star Double Angle Steel Litter Carrier Track

Fig. 444—Shows Star Double Angle Steel Track, with No. 414 Lag Screw Hangers

No. 414 Lag Screw Hanger



No. 346—Removable Section of D. A. Track

No. 350—90° Curve

No. 337—Overhead Two-Way Switch

No. 361—Wall Bracket

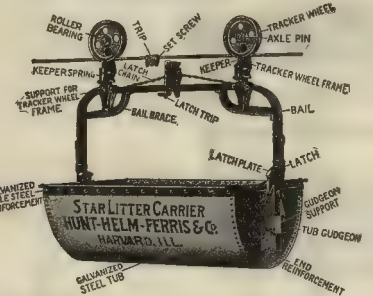
Star Double Angle Litter Carrier Track, Without Hangers or Brackets; Weight per foot 2 Lbs.	Per Foot
	$ .13
	Per Dozen
No. 414—10¼ in. Lag Screw Hangers	$1.50
No. 414A—15¾ in. Lag Screw Hangers	1.80
No. 414B—17¾ in. Lag Screw Hangers	2.10
No. 414C—19¾ in. Lag Screw Hangers	2.30
No. 414D—21¾ in. Lag Screw Hangers	2.50

	Each
No. 361—Wall Brackets for Ridge Pole; Weight 6 Lbs.	$1.10
No. 350—Track Curve for use without Switch; Weight 12 Lbs.	1.80
No. 337—Two-way Overhead Switch; Weight 29 Lbs.	6.40
No. 318—Three-way Overhead Switch; Weight 29 Lbs.	5.20
No. 346—Removable Section of Track	.60
No. 363—End Stop for End of Track	.13

WRITE FOR SPECIAL LITTER AND FEED CARRIER CATALOG

Kelley-How-Thomson Co. of Duluth

LITTER AND FEED CARRIERS
FOR ROD TRACK



ROLLER BEARING

This Carrier combines all the desirable and essential features necessary for a perfect conveyor, the manufacturers having eliminated all the objectionable features and added improvements that place it in the front rank of Rod Track Carriers.

There is no trouble about this Carrier turning either a right hand or left hand switch curve as it is only necessary to lift the wheels one at a time from the track and swivel them around, according to whether it be desired to run the carrier on a left hand or right hand switch. The bail provides for three adjustments, thus lowering and raising the tub to the desired height.

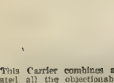
The all steel tub dumps either way, locks at both ends, and thus holds absolutely rigid. Impossible for it to jump the track.

In operation this carrier is automatic. By putting up the rod at the proper angle the carrier when loaded, can be made to run out and dump at the desired point by simply giving it a vigorous shove. When dumped, the empty carrier returns to the barn automatically. The tub of the carrier is dumped by means of a trip block, which can be placed at any desired point on the track. This carrier can be instantly secured to the track at any point to hold it from moving along the track while loading.

Each

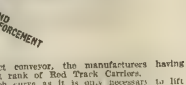
No. 405—Complete with No. 2 Tub, 26 in. Wide, 41 in. Long, 14 in. Deep. Weight, Complete, 110 Lbs. $10.35

LITTER AND FEED CARRIER PARTS

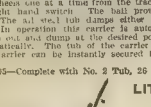


No. 344—Angle Bracket for Rod Track

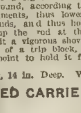
No. 342—Loop Clamp



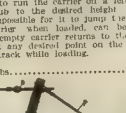
No. 383—Anchor Rod and Tension Bolt. (Also Showing End of Rod Track and End Post)



No. 354—Switch or Curve for Rod Track



No. 340—Spring Track Support for Rod Track (Also Showing Construction of Supporting Posts for Rod Track Outside of Barn)

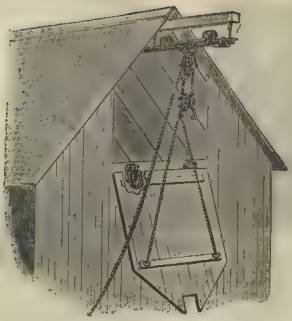


No. 446—Automatic Stop and Returner

	Per 100 Feet
No. 0000—Rod Track, Extra Strength, cut to fit and looped	$8.25
	Each
No. 344—Angle Brackets; Weight 3½ Lbs.	$1.50
No. 423—Clamp for Rod Track; Weight 5 Ozs.	.20
No. 383—Anchor Rod and Turn Buckle; Weight 15 Lbs.	3.50
No. 375—Anchor Rod and Tension Bolt; Weight 12 Lbs.	2.00
No. 374—Anchor Rod; Weight 10 Lbs.	1.50
No. 446—Automatic Stop and Returner; Weight 8½ Lbs.	$3.90
No. 340—Spring Track Support; Weight 8¼ Lbs.	2.20
No. 354—Switch or Curve for Rod Track; Weight 25 Lbs.	3.00
No. 342—Loop Clamp; Weight 1¾ Lbs.	.20
No. 364—⅞ in. Tension Bolt; Weight 6½ Lbs.	.75

WRITE FOR SPECIAL, LITTER AND FEED CARRIER CATALOG

OFF-SET HINGES



STAR

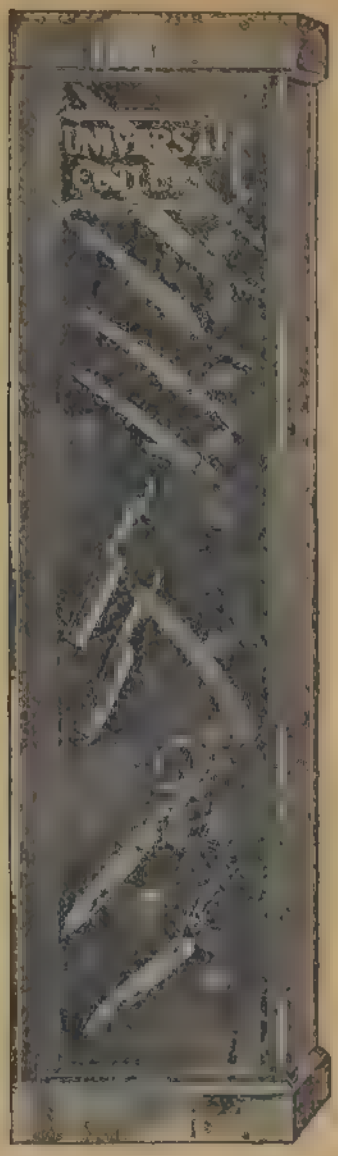
For Use on the Hay Door in the Gable End of the Barn. The Off-Set allow ample room for bolts and screws and door will lay flat on siding, and keep out the rain and snow

Per Dozen Pairs

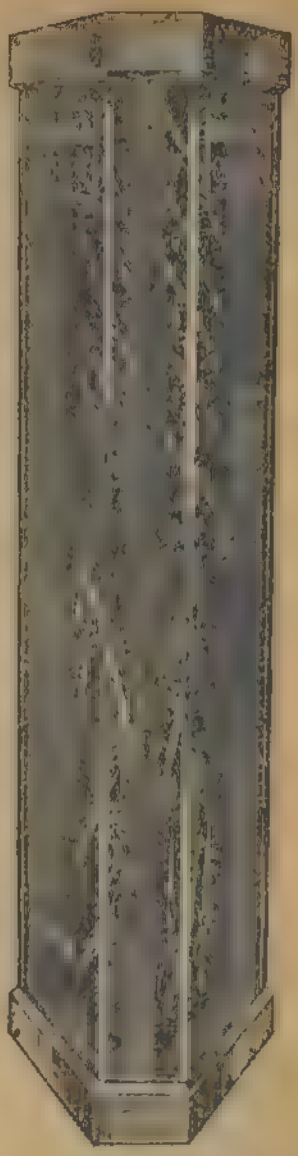
No. 435—Made of Malleable Iron, with Upper and Lower Parts Held Together by Steel Pin and Cotter..... $12.00

Weight per Dozen Pairs About 30 Lbs.

UNIVERSAL CUTLERY DISPLAY CASE



Side View



Front View

The sale of cutlery is perhaps more dependent upon attractive display than almost any line carried by the merchant. Attractive show cases, in turn, give the store a bright appearance which enhances the general effect and of course contributes to the sales.

The outside Universal Cutlery Case calls attention to a selected list of cutlery items in a different way from the usual display case. They stand up and intercept the eye. They cannot be overlooked.

Means are provided for securing all kinds of cutlery effectively with number and price to attract the attention of the prospective customer.

No. 1—Plate glass front and sides. Nickel plated top and base oak trimmings. Green plush removable boards. Height, 33½ inches, width of back, 8¾ inches; outside depth, 8 inches. Shipping weight, 30 lbs.

Each $15.00

UNIVERSAL POCKET KNIVES

No. 73327—3⅛-inch Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Nickel silver tips and shield. Knurled.
Per dozen .....

No. 73390—2⅞-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $59.00

No. 73632—3⅛-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $54.00

No. 03327—3⅛-inch Perfected Stag Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Nickel silver tips. Knurled.
Per dozen $36.00

No. 08446—3¼-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Nickel silver tips. Nickel silver lined.
Per dozen $36.00

No. 74276—3¼-in Pearl Handle. Large spear, two pens and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $54.00

No. 74212—3¼-in Pearl Handle. Large spear, two pens and nail file, polished. Nickel silver lined. Knurled.
Per dozen $59.00

No. 75277—3¼-in Pearl Handle. Large spear, pen and flexible file, full polished. Nickel silver lined. Nickel silver tips and shield. Knurled.
Per dozen $54.00

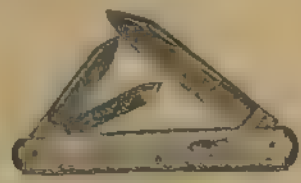
No. 73185—3⅜-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $45.00

No. 73293—3⅜-in Pearl Handles. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips
Per dozen $54.00

No. 73212—3¼-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $54.00

No. 7325—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Knurled.
Per dozen $45.00

No. 73276—3¼-inch Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Nickel silver tips.
Per dozen $45.00



No. 73336—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $41.00

No. 73033—3¼-in Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Nickel silver bolsters and shield.
Per dozen $45.00

Average weight per dozen, 1¼ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 73144—3¼-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters.
Per dozen $45.00

No. 73190—3-inch Pearl Handle. Large Wharncliffe pen and nail file, half polished. Brass lined. Nickel silver tips, without shield.
Per dozen $40.00

No. 7361—3-inch Pearl Handle. Large spear, pen and nail file, half polished Brass lined. Nickel silver bolsters.
Per dozen $36.00

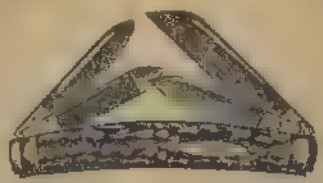
No. 7327—3 inch Flat Pearl Handle Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters.
Per dozen $39.00

No. 73149—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Brass lined.
Per dozen $40 00

No. 73134—2¾-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined.
Per dozen $34 00

No. 0496 — 3½-inch Perfected Stag Handle. Large spear, two pens and nail file, half polished. Nickel silver bolsters. Brass lined.
Per dozen $27.00

No. 04276—3¼-inch Perfected Stag Handle. Large spear, two pens and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $27.00



No. 0416 — 3¼-inch Perfected Stag Handle. Large sheep foot, two pens and nail file. Brass lined. High color.
Per dozen $28 00

No. 0395¾—4-in Perfected Stag Handle Large clip and two pens, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $30 00

No. 0395—4-inch Perfected Stag Handle. Large spear and two pens. Half polished blades. Brass lined. Nickel silver bolsters and shield.
Per dozen $30 00

No. 03670—3¾-inch Perfected Stag Handle. Large sabre clip, small clip and pen, half polished. Nickel silver bolster.
Per dozen $32 00

No. 43670—3⅝-inch Buffalo Ivoroy Handle. Three blades, large sabre clip, clip pen and regular pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $32.00

No. 0309—3¾-in Perfected Stag Handle. Large Wharncliffe and two pens, half polished. Nickel silver bolsters. Brass lined.
Per dozen $28.00

No. 0318¾—3⅝-inch Perfected Stag Handle. Large clip, pen and file blade, full polished. Nickel silver bolsters. Brass lined. Sunken joints.
Per dozen $27.00

No. 43194¾—3¾-inch Buffalo Ivorov Handle. Large sabre clip, clip pen and spear pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $27 00

Average weight per dozen, 1½ lbs. One-half dozen in a box.

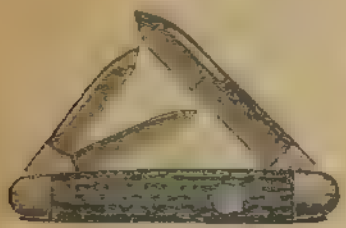
UNIVERSAL POCKET KNIVES

No. 03191—3⅝-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03186¾—3⅜-inch Perfected Stag Handle. Large clip, pen and nail file, half polished blades. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

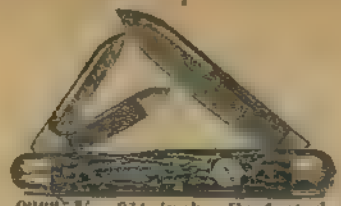


No. 03185—3⅜-inch Perfected Stag Handle. Three blades, large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 45185—3⅜-inch Buffalo Ivoroy Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25 00



No. 03635¾—3¼-inch Perfected Stag Handle. Large clip, sheep foot and pen half polished. Nickel silver bolsters Brass lined.

Per dozen $25.00

No. 03620—3⅜-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03276—3¼-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips and shield.

Per dozen $24.00

No. 03189—3⅜-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters. Sunken joints.

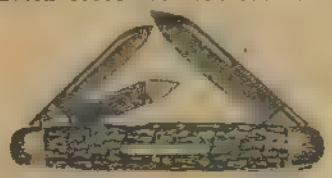
Per dozen $27.00

No. 03425—3-in Perfected Stag Handle. Three blades, large spear, pen and nail file, half polished. Brass lined. Nickel silver tips.

Per dozen $23 00

No. 0388—3⅜-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters and shields.

Per dozen $25.00



No. 03144—3¼-inch Perfected Stag Handle. Large spear, pen and nail file. Half polished. Brass lined. Nickel silver bolsters and shields.

Per dozen $25.00

No. 0361—3-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters.

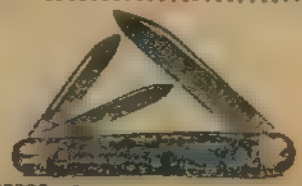
Per dozen $23.00

No. 03108—3⅜-inch Perfected Stag Handle. Large spear, pen and nail file. Nickel silver tips and shield.

Per dozen $23 00

No. 03634—3¼-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00



No. 03337—3-in Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters

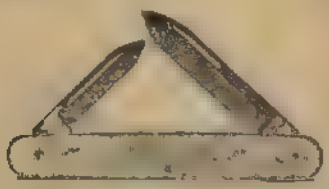
Per dozen $23 00

Average weight per dozen, 1½ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

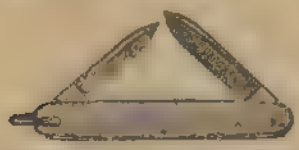
No. 72617—3-inch Pearl Handle. Large spear and nail file, half polished. Nickel silver lined. Nickel silver tips.
Per dozen $41.00

No. 82617—3-in Pearloid Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $23.00



No. 72212—3¼-in Pearl Handle. Large spear and pen, full polished. Nickel silver lined. Knurled.
Per dozen $45.00

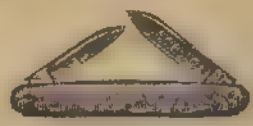
No. 02617—3-in Perfected Stag Handle Large spear and nail file, half polished Brass lined. Nickel silver tips and shield
Per dozen $25.00



No. 72135—2¾-in Pearl Handle. Large spear and pen, half polished. Brass lined
With Shackle .....Per dozen $30.00

No. 72174—2¾-in Pearl Handle. Large spear and pen, half polished Brass lined. Nickel silver tips.
Per dozen $28.00

No. 7202—2¾-inch Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $25.00



No. 72129—2¼-in Pearl Handle. Large spear and pen, half polished. Brass lined
Per dozen $25.00

No. 7226—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $20.00

No. 72276—3¼-in Pearl Handle. Large spear and pen, half polished. Nickel silver tips. Without shield.
Per dozen $45.00

No. 72633—3¼-in Pearl Handle. Large Wharncliffe and pen, half polished Nickel silver bolsters and shield.
Per dozen $36.00

No. 72144—3¼-in Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $36.00

No. 72336—3-inch Pearl Handle Large spear and pen half polished Brass lined. Nickel silver tips.
Per dozen $34.00

No. 72337—3-inch Pearl Handle Large spear and pen, half polished. Brass lined. Nickel silver bolsters, without shield
Per dozen $32.00

No. 82108—3⅛-inch Pearloid Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $18.00

No. 82311—3-inch Smoked Pearl Handle Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No 82129—2¼-inch Pearloid Handle. Large spear and pen, half polished Brass lined.
Per dozen $14.00

No. 12125—3-inch Nickel silver handles, spear and file blades, fine glazed finish, flat pattern.
With Shackle .....Per dozen $18.00

Average weight per dozen, 1¼ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 7220S—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolster and cap.
Per dozen $34 00

No. 7250—3-inch Pearl Handle. Large spear and pen, half polished Brass lined. Nickel silver bolsters and caps. Without shield.
Per dozen $27.00

No. 7290—2¾-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and caps.
Per dozen $25.00

No. 8250—3-in Pearloid Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $14.00

No. 82222—3¼-in Smoked Pearl Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shields.
Per dozen $17.00

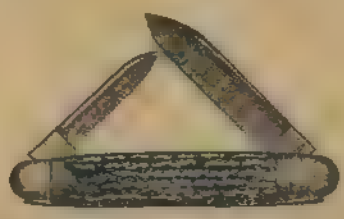
No. 02185—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 42108—3⅜-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $18.00

No. 02191—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 02108—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $17.00

No. 42191—3⅜-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00



No. 02100—3⅜-inch Perfected Stag Handle. Large spear and pen. High color. Nickel silver bolsters. Brass lined.
Per dozen $16 00

No. 42633—3¼-inch Buffalo Ivoroy Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $19.00

No. 02190—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $17.00

No. 9261—3-inch Perfected Stag Handle. Nickel silver bolsters.
Per dozen $17.00

No. 42190—3-in Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $17.00

No. 52144—3¼-in White Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 42425—3-in Buffalo Ivoroy Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $17 00

Average weight per dozen, 1⅛ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 02125—3-in Perfected Stag Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $17.00

No. 02107—3⅜-inch Perfected Stag handle. Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No. 52107—3⅜in Ivoroy Handle. Large spear and pen, half polished. Brass lined.
Per dozen $15.00

No. 42276—3¼-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips and shield.
Per dozen $18 00

No. 02276—3¼-inch Perfected Stag handle.
Per dozen $18.00

No. 5261—3-inch White Ivorov Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $17.00

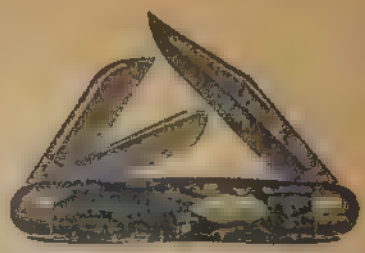
No. 8261—3-inch Smoked Pearl Handle. Same as above.
Per dozen $17.00

No. 02337—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $17.00

No. 02311—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No. 53216—3⅜-in White Ivoroy Handle. Large spear, large spey and clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $23.00

No. 03217—3⅜-inch Perfected Stag Handle. Three blades, large spey sheep foot and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $27 00



No. 032153⅝—3⅝ inch. Large sabre clip, spey and sheep foot, full polished. Sunk joints. Nickel silver bolsters and caps.
Per dozen $32.00

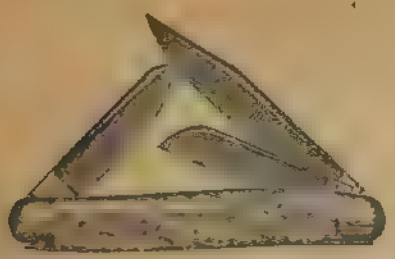
No. 43216—3⅜-inch Buffalo Ivoroy Handle. Large spear, large spey and clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $28.00

No. 03216—3⅜-inch Perfected Stag Handle Three blades, large spear, spey and clip, half polished. Brass lined Nickel silver bolsters and shield.
Per dozen $27.00

No. 033824—3½-inch Perfected Stag handle. Large clip, sheep foot and pen, half polished. Brass lined.
Per dozen $25.00

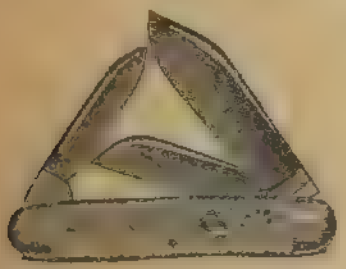
Average weight per dozen, 1¾ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES



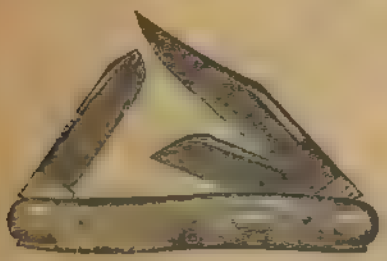
No. 73480—3⅞-in Pearl Handle. Large clip, sheep foot and spey, half polished Nickel silver lined. Knurled. Nickel silver bolsters and shield.

Per dozen $63.00



No. 73382—3½-in Pearl Handle. Large spear, large sheep foot and pen. Half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $50 00



No. 53480—Smoked Pearl Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $30.00

No. 73484—3⅝-inch pearl handles. Large clip, small clip and pen blades, half polished. Brass lined. Nickel silver bolsters.

Per dozen $50 00

No. 04480—3⅞-inch Perfected Stag Handle. Large clip, sheep foot, spey and pen. Brass lined. Half polished. Nickel silver bolsters.

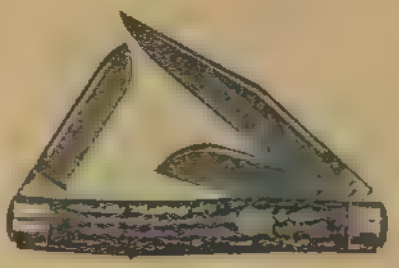
Per dozen $30.00

No. 03480¼—3⅞-inch Perfected Stag Handle. Large slim spey, sheep foot and clip. Nickel silver bolsters. Brass lined.

Per dozen $29.00

No. 43480—3⅞-inch Buffalo Ivoroy Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolster and shield.

Per dozen $29 00



No. 03643—4-in Perfected Stag Handle. Three blades, large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $28.00

No. 43643—4-inch Buffalo Ivoroy Celluloid Handle. Large clip, sheep foot and spey, half polished. Nickel silver bolsters. Brass lined

Per dozen $29.00

No. 03480—3⅞-inch Perfected Stag Handle. Large clip, spey and sheep foot, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $29.00

No. 03618—3¾-inch Perfected Stag Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $27.00

No. 43618—3¾-inch Buffalo Ivoroy Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $27.00

No. 03633¾—3¼-inch Perfected Stag Handle. Large clip, spey and sheep foot, half polished. Brass lined. Nickel silver bolsters and shield.

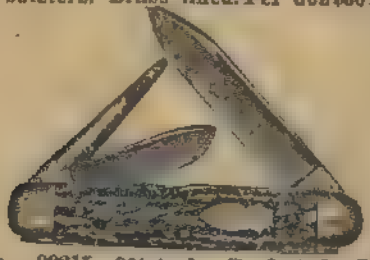
Per dozen $25 00

Average weight per dozen, 2⅓ lbs. One-half dozen in a box.

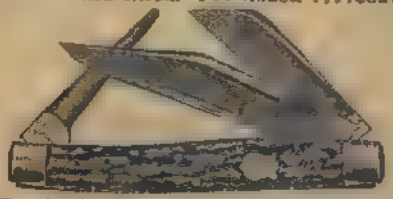
UNIVERSAL POCKET KNIVES

No. 03662—3⅝-inch Perfected Stag Handle. Boy Scout knife. Large spear, punch blade, can opener and screw driver, half polished. Nickel silver bolsters and shield. Brass lined. Per doz $30.00

No. 00310—3⅝-inch Perfected Stag Handle. Large clip, sheep foot, spey and punch blade, half polished. Nickel silver bolsters. Brass lined. Per doz $30.00

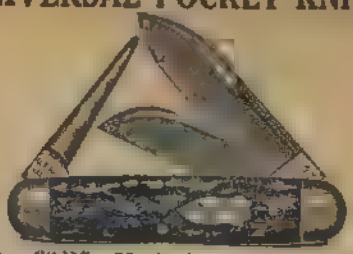


No. 00215—3⅝-inch Perfected Stag Handle. Large spear, spey and punch blade, half polished. Nickel silver bolsters. Brass lined. Per dozen $32.00

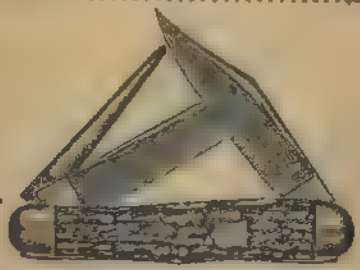


No. 00043—4-in Perfected Stag Handle. Large clip, sheep foot and punch blade, half polished. Nickel silver bolsters. Brass lined. Per dozen $28.00

No. 00480—3⅝-inch Perfected Stag Handle. Large clip, large spey and punch blade, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20 00



No. 00216—3⅝-inch Perfected Stag Handle. Large spear, sheep foot and punch blade, half polished blades. Brass lined. Nickel silver bolsters and shield
Per dozen $27.00



No. 00736—3⅝-inch Perfected Stag Handle. Large clip, large spey and punch blade, half polished. Brass lined Nickel silver bolsters and shield.
Per dozen $32.00

No. 00633—3¼-inch Perfected Stag Handle. Large clip, spey and punch blade half polished. Nickel silver bolsters Brass lined.
Per dozen $26.00

No. 00266—3½-inch Perfected Stag Handle. Two blades, large spear and belt punch, half polished. Brass lined. Nickel silver bolster and shield.
Per dozen $17 00

No. 30102—3⅝-in Ebony Handle. Large spear and punch, half polished. Nickel silver bolster and cap. Brass lined.
Per dozen $20 00

No. 02673—4½-inch Perfected Stag Handle. Two blades, large clip and pen, half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $23.00

No. 02271—4-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $23.00

No. 02638—3¾-inch Perfected Stag Handle. Large sabre clip and pen, half polished. Nickel silver bolsters and caps Brass lined.
Per dozen $21.00

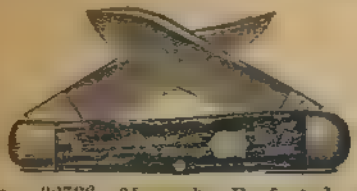
No. 0262—3⅝-in Perfected Stag Handle. Two blades, large spear and pen, half polished, brass lined, iron bolster and cap, shielded.
Per dozen $21.00

No. 4264—3⅝-in Buffalo Ivoroy Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $20 00

Average weight per dozen, 2¾ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

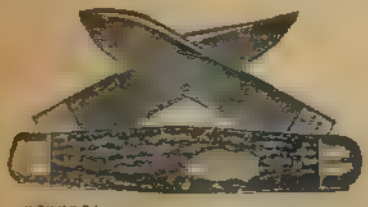
No. 02102 3⅝-inch Perfected Stag Handle. Large spear and pen half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00



No. 02736—3⅝-inch Perfected Stag Handle. Large spear and large clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

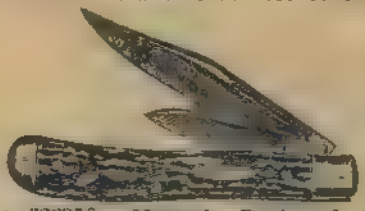
No. 02645—3½-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

No. 02347—3¾-inch Perfected Stag Handle. Large spear and pen half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $20.00



No. 02335¾—3¾-inch Perfected Stag Handle. Large clip and large spear, half polished. Brass lined. Nickel silver bolsters.....**Per dozen $20.00**

No. 02637⅝—3⅝-inch Perfected Stag Handle. Large sabre clip and pen half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $20.00



No. 02637¾—3¾-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $20.00

No. 32637⅝—3⅝-inch Ebony Handle. Two blades, large sabre clip and pen, half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $20.00

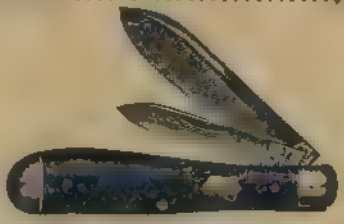
No. 02480—3⅞-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters and shield.....**Per dozen $20.00**

No. 0204—3⅝-in Perfected Stag Handle. Large spear and pen, half polished. Nickel silver bolsters, caps and shield.
Per dozen $18.00

No. 02335—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $19.00

No. 32781/2—3¾ in Ebony Handle. Two blades, large sabre spear and pen, half polished. Brass lined. Nickel silver bolster and shield.
Per dozen $18.00

No. 42653/4—3⅝-inch Buffalo Ivoroy Handle. Large clip and pen, half polished. Nickel silver bolsters. Brass lined.
Per dozen $20.00



No. 42301—3½-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $20.00

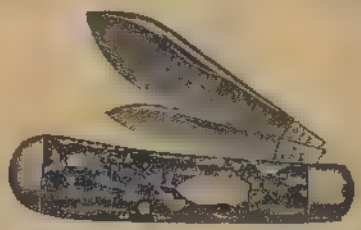
No. 02239—3⅝-inch Perfected Stag Handle. Two blades, large spear and pen, half polished. Brass lined. Iron bolsters and caps.
Per dozen $17.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

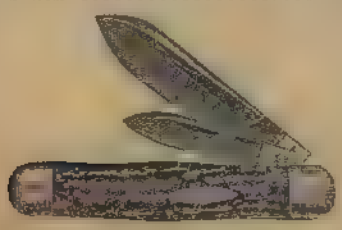
No. 42290—3½-inch Buffalo Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

No. 02626 3⅝-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00



No. 02403—3⅝-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18 00

No. 02629¾ 3⅜-inch Perfected Stag Handle. Large clip and pen half polished. Brass lined. Nickel silver bolsters.
Per dozen $18.00

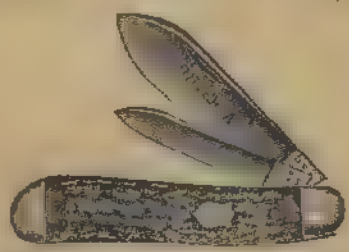


No. 02629—3¾-inch Perfected Stag Handle, half polished. Brass lined Nickel silver bolsters, caps and shield.
Per dozen $15.00

No. 42629 3⅜-inch Buffalo Ivoroy Handle Two blades, large spear and pen half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $19 00

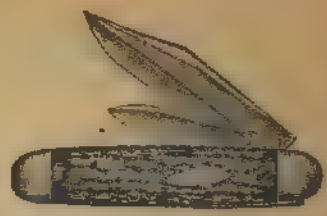
No. 5246—3⅜-in White Ivoroy Handle. Spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $18.00

No. 02267 3½-inch Perfected Stag Handle. Two blades, large spear and pen. Brass lined. Nickel silver bolster, cap and shield. Easy opener
Per dozen $18 00



No. 02640—3½-inch Perfected Stag Handle Large spear and pen. High color. Brass lined. Iron bolsters and caps.
Per dozen $15.00

No. 02154¾—3¼-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield,
Per dozen $16.50



No. 02154⅝—3¼-inch Perfected Stag Handle. Large sabre clip and pen, high color.
Per dozen $16 50

No. 82623—3-in Tortoise Ivoroy Handle. Two blades, large spear and pen, half polished. Brass lined Nickel silver bolster, caps and shield.
Per dozen $16.50

No. 02623—3-in Perfected Stag Handle. Large spear and pen, half polished Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $16 50

No. 02633 3¼-inch Perfected Stag Handle. Large Clip and pen, half polished. Brass lined Nickel silver bolsters and shield.
Per dozen $18.00

No. 0250—3-in Perfected Stag Handle. Large spear and pen, half polished. Nickel silver bolsters, cap and shield. Brass lined.
Per dozen $14.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 3240½—3⅜-in ebony handle. Spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $16.50

No. 02163¼—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $16.50

No. 0216—3⅜-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50
No. 3246—3⅜-inch Ebony Handle
Per dozen $16.50

No. 02239¼—3⅝-inch Perfected Stag Handle. Two blades, large clip and pen, half polished. Brass lined. Iron bolsters and cap .....Per dozen $17.00

No. 32164—3⅜-in Ebony Handle. Large spear and pen, half polished blades. Brass lined. Nickel silver bolsters and caps.
Per dozen $16.50

No. 02154—3¼-inch Perfected Stag Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16 50

No. 02105—3¼-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50

No. 02222—3¼-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50

No. 22207—3½-inch Granadilla Handle Two blades, large spear and pen. Brass lined. Iron bolsters and caps.
Per dozen $17.00
No. 32267—3½-inch Ebony Handle
Per dozen $17.00

No. 0247—3⅝-in Perfected Stag Handle. Large spear and pen, high color. Brass lined. Iron bolsters and caps.
Per dozen $15 00

No. 02125⅝—3⅝-inch Perfected Stag Handle. Two blades, large sabre clip and pen. Brass lined. Iron bolster.
Per dozen $13.00

No. 0247¼—3⅝-inch Perfected Stag Handle. Two blades, large sheep foot and pen. Brass lined. Iron bolsters and caps. Shielded .....Per dozen $15.00

No. 2247—3⅝-inch Cocobolo Handle. Two blades, spear and pen, high color. Brass lined. Iron bolsters and caps.
Per dozen $15.00
No. 3247—3⅝-inch Ebony Handle. As above .....Per dozen $15.00

No. 32125—3½-in Ivoroy Handle. Two blades, large spear and pen. Brass lined. Iron bolster. Shielded. Per dozen $14.00

No. 0251—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield .....Per dozen $17.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

—Stiletto— POCKET KNIVES

—Stiletto— Pocket Knives are manufactured in one of the oldest and largest pocket cutlery factories in the United States. From years of operation and experience they are producing a knife which shows workmanship and finish.

OUR GUARANTEE

—Stiletto— Pocket Knives are made of **Highest Grade** English crucible steel, hand forged and tempered uniform.
They are made by skilled workmen.
And for quality, style and finish are unexcelled.
We do not warrant them not to wear out or break if they are abused.
They are not made for opening cans or drawing nails.
And should not be sharpened on a dry stone or honed flat.
Use a fine oil stone and hold blade at an angle of 20 degrees in order to secure a chisel edge.
Oil the joints occasionally, as they are liable to wear rough and the blade points protrude.

WARRANTY ADOPTED BY AMERICAN POCKET CUTLERY MANUFACTURERS

We warrant our Pocket Knives only against flaws in blades and springs. Knives that are much worn, or that have been reground by dealers or consumers, or that have more than one blade broken will not be subject to return or exchange.

For the convenience of our customers, we **stamp the number of the knife on the tang of the large blade which avoids confusion of your stock.** On the tang of the smaller blade we stamp "Oil the Joints," which brings to the attention of the user the necessity of oiling the joints, thereby prolonging the life of the knife.

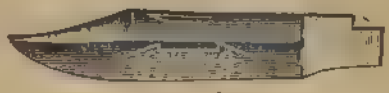
The following illustrations show the different styles of blades that are furnished in —Stiletto— brand pocket knives:

Spear

Saber

Pen

Clip

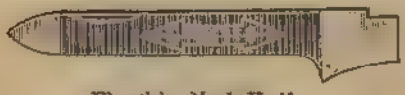

Saber Clip

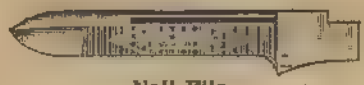
Spey

Sheep Foot

Budding

Pruning


Flexible Nail Knife

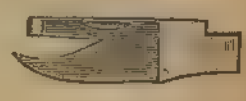

Nail File

Leather Punch

A combination screw driver and bottle opener

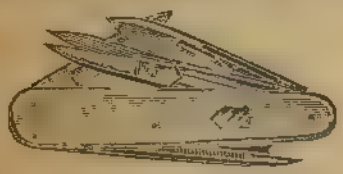
A combination screw driver, bottle opener and tack puller

A combination screw driver, bottle opener and Preet-o-lite tank key.


Can Opener

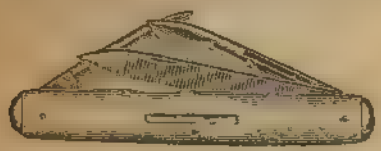
STILETTO POCKET KNIVES

Two blades, scissors and French nail file, full crocus polished. Nickel silver lined. Length, 3⅛ inches.
No. 4677—Pearl handle Per dozen $90.00

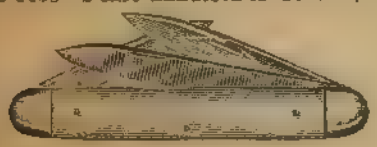


Two blades, scissors and French nail file, full crocus polished. Brass lined, milled edges. Length, 2¾ inches.
No. 4671—Pearl handle. Per dozen $95.00

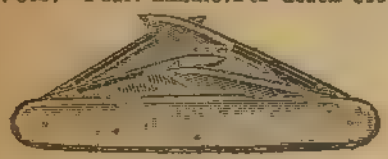
Two blades and scissors, full crocus polished. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 3682—Pearl handle. Per dozen $72.00



Two blades and flexible nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length 3¼ inches.
No. 3688—Pearl handle. Per dozen $63.00

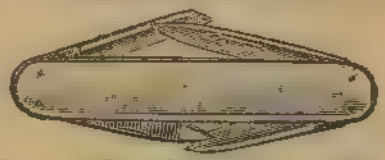


Two blades and flexible nail file, full crocus polished. Nickel silver cap and bolster. Brass lined, milled edges. Length, 3 inches.
No. 3687—Pearl handle. Per dozen $46.80



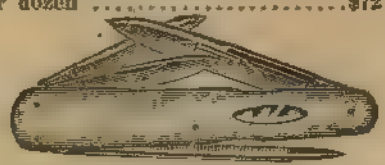
Four blades, full crocus polished. Nickel silver lined, milled edges. Length, 3½ inches.
No. 4690—Pearl handle. Per dozen $63.00

No. 4465
Three blades and French nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3⅛ inches.
No. 4465—Genuine stag handle.
Per dozen $56.00
No. 4665—Pearl handle. Per dozen $72.00



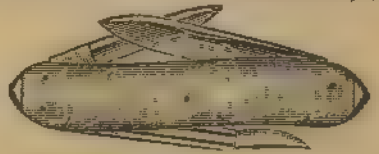
Four blades, full crocus polished. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 4677—Pearl handle. Per dozen $72.00

Four blades, full crocus polished Nickel silver lined, milled edges. Length, 3 inches.
No. 4689—Pearl handle. Per dozen $72.00
No. 4697—Japanese pearl handle. Fitted with shackle. Otherwise same as No. 4689.
Per dozen $72.00

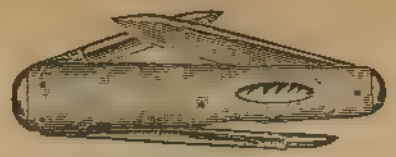


Three blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 4664—Pearl handle. Per dozen $72.00

Two blades and French nail file, full crocus polished. Nickel silver lined. Length, 3¼ inches.
No. 3623—Pearl handle. Per dozen $63.00

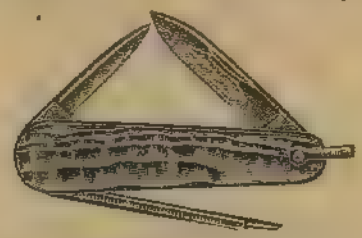


Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 3601—Pearl handle. Per dozen $62.00

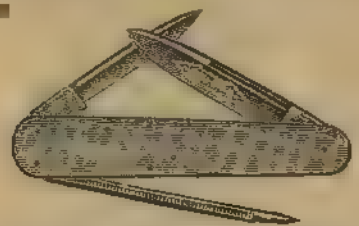


Two blades and French nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3⅛ inches.
No. 3646—Pearl handle. Per dozen $68.00

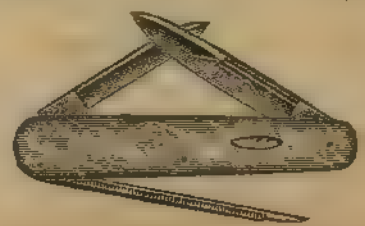
Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Fitted with shackle. Length, 3⅜ inches.
No. 3663—Japanese pearl handle.
Per dozen $72.00



Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Fitted with shackle. Length, 2¾ inches.
No. 3699—Japanese pearl handle.
Per dozen $61.00



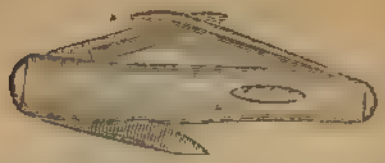
Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2¾ inches.
No. 3642—Japanese pearl handle.
Per dozen $63.00



Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2¾ inches.
No. 3695—Pearl handle. Per dozen $63.00

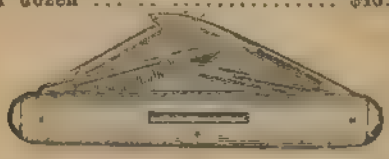
Average weight, 1½ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

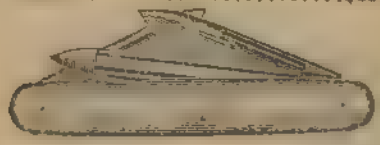


Two blades and nail file, full crocus polished. Nickel silver tips. Brass lined. Length, 3⅛ inches.
No. 3657—Pearl handle. Per dozen $58.00

Four blades, full crocus polished Nickel silver tips. Nickel silver lined, milled edges. Length, 3⅛ inches.
No. 4672—Pearl handle Per dozen $68 00
No. 4472—English patent stag handle.
Per dozen $40.00

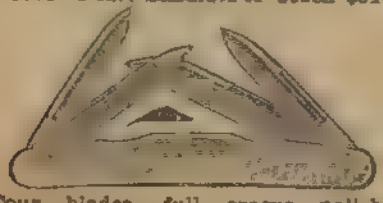


Four blades, full crocus polished Nickel silver tips. Milled edges. Length, 3 inches.
No. 4657—Pearl handle, nickel silver lined
Per dozen $56 00
No. 4462—Genuine stag handle, brass lined.
Per dozen $40 00

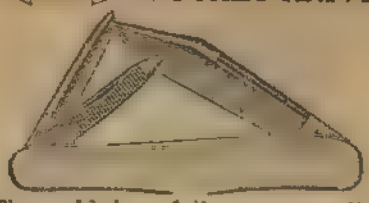


Three blades, full crocus polished Nickel silver lined, milled edges. Length 3 inches.
No. 3622—Pearl handle. Per dozen $46.00

Three blades, full crocus polished. Brass lined. Length, 3¼ inches
No. 3604—Pearl handle. Per dozen $54.00

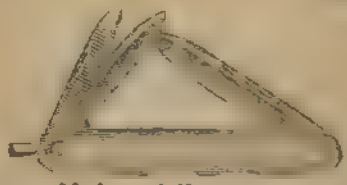


Four blades, full crocus polished. Nickel silver lined. Length, 3¼ inches.
No. 4608—Japanese pearl handle.
Per dozen $62.00

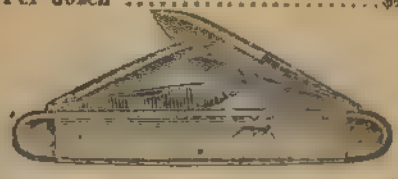


Three blades, full crocus polished Nickel silver lined. Length, 3 inches.
No. 3698—Japanese pearl handle.
Per dozen $61.00

Four blades, full crocus polished. Nickel silver lined. Length, 2⅞ inches.
No. 4698—Japanese pearl handle.
Per dozen $45.00



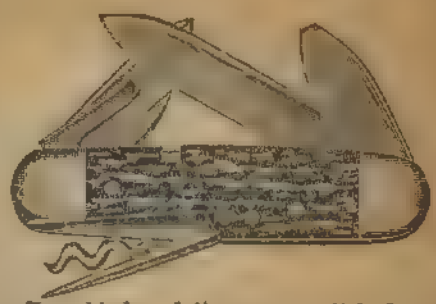
Three blades, full crocus polished. Nickel silver lined. Fitted with shackle. Length, 2⅝ inches.
No. 3624—Japanese pearl handle.
Per dozen $42.00



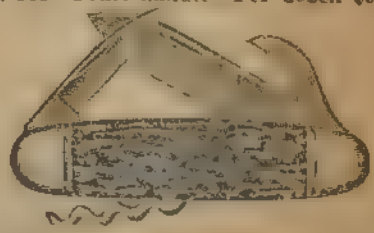
Four blades, full crocus polished Nickel silver cap and bolster. Brass lined, engraved edges. Length, 3⅛ inches
No. 4660—Pearl handle. Per dozen $56.00

Three blades, full crocus polished Nickel silver lined, milled edges. Length, 3¼ inches.
No. 344—Genuine stag handle.
Per dozen $40 00

Two blades and manicure file, full crocus polished. Nickel silver lined. Milled edges. Length 3¼ inches.
No. 342—Genuine stag handle.
Per dozen $40 00

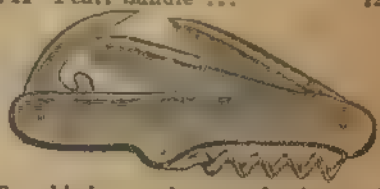


Two blades, full crocus polished, can opener a combination screw driver and tack puller blade, reamer and corkscrew. Nickel silver cap and bolster. Nickel silver lined. Length, 3¾ inches.
No. 648—Genuine stag handle Doz $72 00
No. 668—Pearl handle Per dozen $90 00

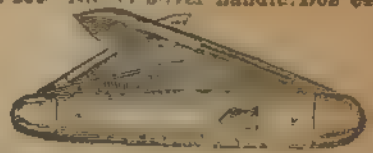


Two blades and wire hook, full crocus polished and corkscrew. Nickel silver cap and bolster. Nickel silver lined. Length, 3 inches.
No. 349—Genuine stag handle.
Per dozen $60.00

Two blades, corkscrew and wire hook, full crocus polished. Nickel silver cap and bolster. Nickel silver lined. Length, 3¼ inches.
No. 16—Stag handle....Per dozen $56 00
No. 14—Pearl handle ... " 72 00



Two blades, corkscrew, hook and bottle cap lifter, polished. Length, 3¼ inches.
No. 100—Nickel silver handle. Doz $45.00



Three blades, full crocus polished Nickel silver cap and bolster. Nickel silver lined. Length, 3¼ inches.
No. 3684—Pearl handle Per dozen $60.00
No. 3484—Genuine stag handle.
Per dozen $36.00

Average weight, 1¼ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

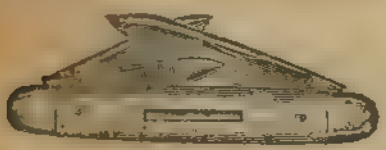
Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 3621—Pearl handle. Per dozen $47.00

Four blades, full crocus polished. Brass lined. Length, 2⅞ inches.
No. 4661—Pearl handle. Per dozen $48.00

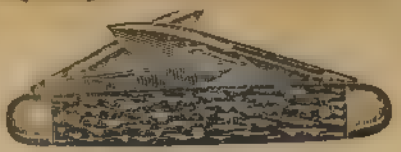
Four blades, full crocus polished. Nickel silver tips. Nickel silver lined, engraved milled edges. Length, 2⅞ inches.
No. 4662—Pearl handle. Per dozen $48.00

Two blades, glove buttoner and French nail file, full crocus polished. Nickel silver tips. Brass lined. Length, 2¾ inches.
No. 4675—Pearl handle. Per dozen $48.00

Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 3660—Pearl handle. Per dozen $42.00



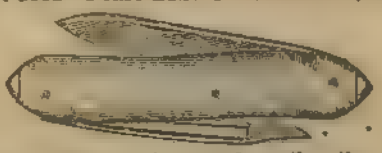
Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅛ inches.
No. 3617—Pearl handle. Per dozen $46.00



Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3456—Stag handle. Per dozen $27.00
No. 3656—Pearl handle. " 46.00
No. 3556—Iris pearl handle.
Per dozen $28.00

Three blades, full crocus polished. Nickel silver bands, cap and bolster. Brass lined. Length, 3½ inches.
No. 3669—Pearl handle. Per dozen $46 00

Three blades, full crocus polished Brass lined, milled edges. Length, 2¾ inches.
No. 3664—Pearl handle. Per dozen $37.00



One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 2601—Pearl handle. Nickel silver tips.
Per dozen $48.00
No. 2401—Genuine stag handle. Nickel silver tips.
Per dozen $27.00
No. 2501—Iris pearl handle. Nickel silver tips.
Per dozen $25.00
No. 2600—Pearl handle. Without tips
Per dozen $48.00

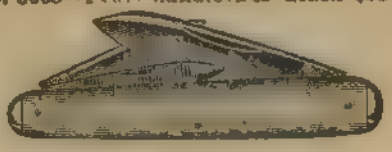
One blade and French nail file, full crocus polished. Brass lined. Nickel silver tips. Length, 2⅝ inches.
No. 2500—Japanese pearl handle.
Per dozen $30.00

One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2⅞ inches.
No. 2609—Pearl handle. Per dozen $40.00

One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 2602—Pearl handle. Per dozen $46.00

Three blades, full crocus polished. Nickel silver tips. Brass lined. Length, 3 inches.
No. 3667—Pearl handle Per dozen $47.00
No. 3467—English patent stag handle.
Per dozen $25.00

Three blades, full crocus polished. Nickel silver tips. Nickel silver lined. Plain edges. Length, 3¼ inches.
No. 3468—English patent stag handle.
Per dozen $28.00
No. 3568—Iris pearl handle.
Per dozen $27.00
No. 3668—Pearl handle. Per dozen $52.00



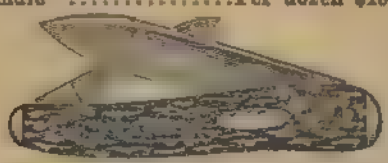
Three blades. Crocus polished. Nickel silver tips. Brass lined. Length, 3⅜ inches.
No. 3690—Pearl handle. Per dozen $56.00
No. 3590—Iris pearl handle.
Per dozen $28.00
No. 3490—Genuine stag handle.
Per dozen $27.00
No. 3581—Celluloid imitation buffalo horn handle.
Per dozen $26.00

Average weight, 1½ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Three blades, half crocus polished. Brass lined. Length, 3⅝ inches.
No. 3686—Pearl handle. Per dozen $56.00

Two blades, half crocus polished. Brass lined. Nickel silver tips. Fitted with shackle. Length, 3¼ inches.
No. 2551—Fancy mottled celluloid handle ..... Per dozen $19.00



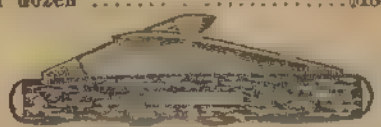
Two blades, crocus polished. Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2494—Stag handle.. Per dozen $23.00
No. 2694—Pearl handle.. " 50.00

Two blades, full crocus polished. Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2410—Genuine stag handle Doz $18.00

Two blades, half crocus polished Nickel silver tips. Brass lined. Length, 3⅜ inches.
No. 2681—Pearl handle.. Per dozen $48 00
No. 2481—Stag handle... " 18.00

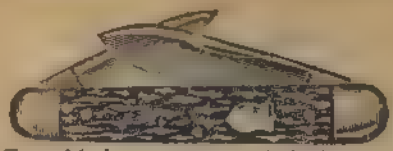
No. 2581—Green celluloid handle.
Per dozen $18.00

No. 2881—White celluloid handle
Per dozen $18.00



Two blades, full crocus polished Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2409—Genuine stag handle Doz $20.00

Two blades, crocus polished. Nickel silver cap and bolster. Length, 3¼ inches.
No. 2412—Genuine stag handle Doz $20.00

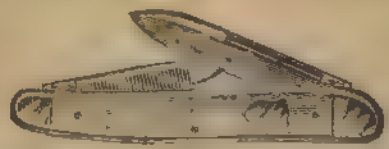


Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.

No. 2413—Genuine stag handle.
Per dozen $21.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.

No. 2453—Stag handle.. Per dozen $18.00



Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.

No. 2685—Pearl handle. Per dozen $36.00

No. 2485—English patent stag handle
Per dozen $19.00

No. 2560—Green celluloid handle.
Per dozen $18.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined Length, 3 inches.

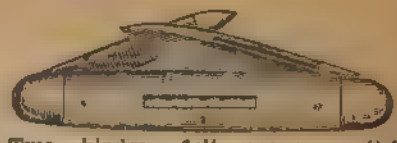
No. 265—Pearl handle. Per dozen $34 00

Two blades, full crocus polished Nickel silver tips. Brass lined. Length, 3 inches.

No. 264—Pearl handle. Per dozen $48.00

Two blades, full crocus polished. Brass lined. Length, 2⅞ inches.

No. 2686—Pearl handle. Per dozen $40 00



Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 2698—Pearl handle. Per dozen $30.00
No. 2598—Iris pearl with black stripe.
Per dozen $20.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 242—Stag handle.. Per dozen $18.00
No. 252—Iris pearl handle.
Per dozen $19.00
No. 262—Pearl handle.. Per dozen $40.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅞ inches.

No. 2495—Stag handle.. Per dozen $19 00

No. 2595—Mottled celluloid handle.
Per dozen $19.00
No. 2695—Pearl handle. Per dozen $28.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.

No. 2497—English patent stag handle.
Per dozen $16 00
No. 2697—Pearl handle.. Per dozen $34.00
No. 2897—Ivory handle.. " 19 00

No. 2597—Celluloid imitation buffalo horn handle. Fitted with spear blade and nail file.
Per dozen $19 00

No. 2797—Green mottled celluloid handle. Otherwise as No. 2497.
Per dozen $18 00

Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3 inches.
No. 2466—Stag handle.. Per dozen $18.00

Average weight, 1 lb per dozen. One-half dozen in a box.

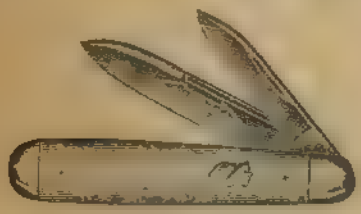
POCKET KNIVES

Two blades, half crocus polished. Brass lined. Length, 3⅝ inches.
No. 2480—Stag handle..Per dozen $15.00
No. 2580—Iris pearl handle.
Per dozen $17.00
No. 2630—Pearl handle.Per dozen $48.00
No. 2780—Buffalo horn handle.
Per dozen $16 00
No. 2880—White celluloid handle.
Per dozen $16.00
No. 2579—Green celluloid handle.
Per dozen $16 00

Two blades, full crocus polished Brass lined. Length, 3 inches.
No. 2563—Iris pearl handle.
Per dozen $19.00

Two blades, half crocus polished. Brass lined. Length, 3¼ inches.
No. 2512—White mottled celluloid handle, black cap and bolster.
Per dozen $17.00

Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches.
No. 2677—Pearl handle.Per dozen $36.00

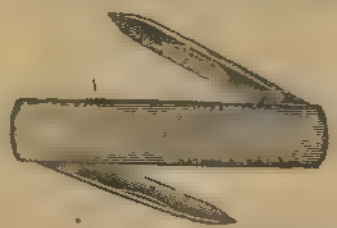


Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2¾ inches.
No. 2672—Pearl handle.Per dozen $32 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches
No. 249—Stag handle...Per dozen $19.00
No. 259—Fancy mottled celluloid handle.
Per dozen $21.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅛ inches.
No. 2474—Stag handle..Per dozen $17.00
No. 2574—Pearl handle.. " $4.00

Two blades, full crocus polished Nickel silver cap and bolster. Brass lined. Length, 2¾ inches.
No. 2675—Pearl handle.Per dozen $30.00



Two blades, crocus polished. Brass lined, Length, 2½ inches.
No. 256—Iris pearl handle.
Per dozen $18.00

Three blades, full crocus polished. Nickel silver tips. Brass lined. Length, 2⅝ inches.
No. 3672—Pearl handle.Per dozen $39 00

Two blades, full crocus polished. Brass lined. Length, 2⅝ inches.
No. 2618—Pearl handle.Per dozen $30.00

Two blades, full crocus polished. Nickel silver tips. Brass lined. Length, 2⅝ inches.
No. 2682—Pearl handle.Per dozen $30 00
No. 2582—Iris pearl handle.
Per dozen $17.00

Two blades, full crocus polished. Nickel silver bolster. Brass lined. Length, 2⅝ inches.
No. 2692—Pearl handle.Per dozen $24.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅝ inches.
No. 2693—Pearl handle.Per dozen $27.00

Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅝ inches.
No. 2690—Pearl handle..Per dozen $27.00
No. 2490—Stag handle... " " 16 00
No. 2590—Iris pearl handle Doz $17 00
No. 2890—White celluloid handle.
Per dozen $17.00

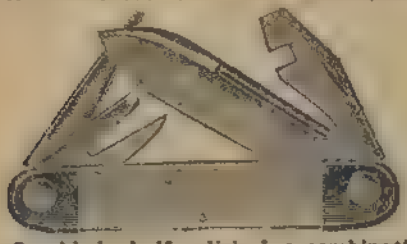
Corn knife, one blade, polished, Brass lined. Length, 3¼ inches.
No. 1817—White grained celluloid handle .....Per dozen $14.00

Average weight, 1¼ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Two blades, half polished, combination screw driver and tack puller blade, can opener, corkscrew and reamer. Brass lined. Nickel silver rivets. Length, 3¾ inches.

No. 4043—Fibre handle. Per dozen $72.00



One blade, half polished, a combination screw driver and bottle opener blade, can opener and a patent leather punch. Brass lined. Nickel silver rivets. Length, 3½ inches.

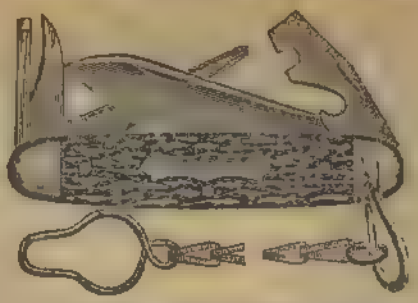
No. 4510—White mottled celluloid handle with black cap and bolster.
Per dozen $42 00
No. 4045—Fibre handle. Per dozen $20 00

Spear blade, a combination screw driver and bottle opener blade, can opener and a patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3⅝ inches.

No. 4451—Genuine stag handle.
Per dozen $32.00

One blade, half polished, a combination screw driver and bottle opener blade can opener and a patent leather punch Brass lined. Carries emblem of Boy Scout in gilt. Nickel silver rivets. Length, 3⅝ inches.

No. 4512—White mottled celluloid handle with black cap and bolster.
Per dozen $38 00



Four blades. Brass lined. Fitted with one large spear blade, one combination screw driver and bottle opener blade, one patent leather punch and can opener and chain. Half polished. Nickel silver cap, bolster and shield. Length, 3¾ inches.

No. 4400—Stag handle. Per dozen $33.00

One blade, half crocus polished, a combination screw driver and bottle opener blade, can opener and a patent leather punch. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.

No. 4450—Stag handle. Per dozen $38.00

Three blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Nickel silver lined. Length, 3⅜ inches.

No. 4470—Genuine stag handle.
Per dozen $30 00
No. 4670—Pearl handle. Per dozen $68.00

Two blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 4 inches.

No. 3477—Stag handle Per dozen $31 00

Spear blade, clip blade and leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3⅝ inches.

No. 3444—Stag handle. Per dozen $30.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length 3 inches.

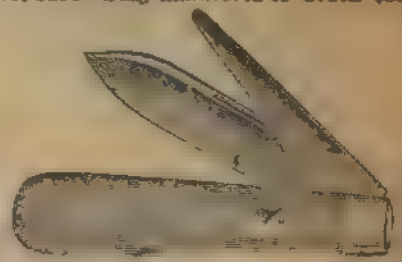
No. 278—Buffalo horn handle. Doz $22 00
No. 358—Mottled celluloid handle, as No. 278, with nail file. Per dozen $29 00
No. 3685—Pearl handle, as No. 358. Per dozen $48 00

One blade and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3½ inches.

No. 2455—Stag handle. Per dozen $18 00

Two blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3⅝ inches.

No. 3426—Stag handle. Per dozen $33 00



One blade and patent leather punch, half polished. Nickel silver bolster and shield. Brass lined. Length, 3½ inches.

No. 2141—Cocobolo handle. Dozen $16 00

Average weight, 1½ lbs per dozen. One-half dozen in a box.

STILETTO POCKET KNIVES

Three blades, full crocus polished. Nickel silver cap and bolster. Nickel silver lined. Length, 3¼ inches.
No. 368—Pearl handle..Per dozen $48.00
No. 348—Genuine stag handle.
Per dozen $36.00

Five blades, half crocus polished Nickel silver cap, bolster and shield Brass lined. Length, 3⅞ inches.
No. 5445—Genuine stag handle.
Per dozen $48.00

Four blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 4452—Large clip and sheepfoot blades. Stag handle.
Per dozen $32.00

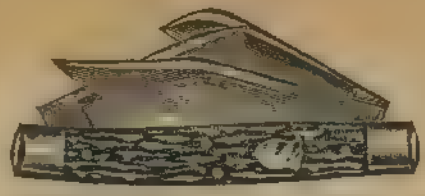
Three blades, full crocus polished Nickel silver cap and bolster. Brass lined. Length, 4⅛ inches.
No. 3449—Genuine stag handle.
Per dozen $36 00
No. 3649—Pearl handle.Per dozen $75.00
No. 3459—Genuine stag handle. Has clip instead of sheepfoot blade.
Per dozen $36 00

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 4⅛ inches.
No. 3451—English patent stag handle.
Per dozen $32.00

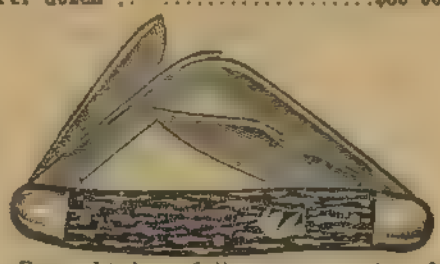
Three blades, half crocus polished Nickel silver cap, bolster and shield Brass lined. Length, 3¾ inches.
No. 3411—Genuine stag handle.
Per dozen $34 00

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3448—Genuine stag handle Doz $32 00

Three blades, full crocus polished Nickel silver cap and bolster. Nickel silver lined. Milled edges. Length, 4 inches.
No. 347—Genuine stag handle..Doz $56 00
No. 345—Similar to No. 347, with punch blade in place of sheepfoot. Punch, clip and speying blade. Polished..Doz $36.00
No. 3474—Stag handle..Per dozen $32 00
No. 341—Similar to No. 3474, but with punch blade in place of sheepfoot. Punch clip and speying blade..Per dozen $32 00
No. 346—Similar to No. 3474..Doz $32 00
No. 3674—Pearl handle..Per dozen $63 00
No. 361—Similar to No. 3674, with punch blade in place of sheepfoot. Punch clip and speying blade..Per dozen $68 00
No. 3574—Celluloid imitation buffalo horn handle .....Per dozen $33 00
No. 356—Olive green celluloid handle.
Per dozen $32 00
No. 351—Similar to No. 3574, with punch blade in place of sheepfoot. Punch, clip and speying blade Per dozen $33 00



Premium stock. Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 3475—Stag handle..Per dozen $30 00
No. 3675—Pearl handle.. " 63 00
No. 3485—Genuine stag handle.
Per dozen $32 00
No. 3775—Buffalo horn handle.
Per dozen $30 00



Four blades, full crocus polished. Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3⅞ inches.
No. 4476—English patent stag handle.
Per dozen $34 00

Three blades. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3441—Half crocus polished stag handle.
Per dozen $29 00
No. 3741—Half crocus polished buffalo horn handle.
Per dozen $29 00
No. 3541—Half crocus polished mottled green celluloid handle.
Per dozen $30 00
No. 3643—Crocus polished pearl handle.
Per dozen $58 00
No. 3543—Crocus polished ivory handle.
Per dozen $29.00

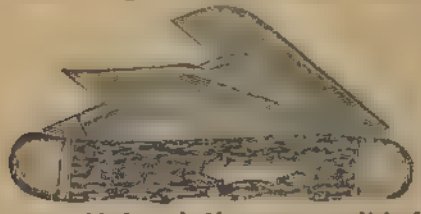
Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3440—Stag handle..Per dozen $28 00
No. 3740—Buffalo horn.. " 29.00

Average weight, 3 lbs per dozen. One-half dozen in a box.

POCKET KNIVES

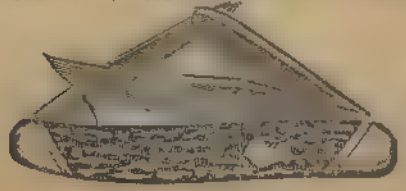
Three blades, half crocus polished Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3⅝ inches.
No. 3488—Genuine stag handle.
Per dozen $32 00
No. 3583—Fancy striped celluloid handle .....Per dozen $30.00
No. 3783—Mottled celluloid handle.
Per dozen $30 00

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3462—Stag handle..Per dozen $32 00



Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3452—English patent stag handle.
Per dozen $28.00

Three blades; large spear, spey and pen. Brass lined, nickel silver bolsters. Length, 3⅝ inches.
No. 3515—Buffalo horn pyralin handle
Per dozen $30.00



Three blades; large clip, spey and punch. Brass lined, nickel silver bolsters. Length, 3½ inches.
No. 3409—Stag handle..Per dozen $27 00
No. 3509—Abalonion pearl pyralin handle .....Per dozen $27 00

Three blades; large clip, spey and pen. Brass lined, nickel silver bolsters. Length, 3⅝ inches.
No. 3510—Abalonion pearl pyralin handle.
Per dozen $30 00
No. 3512—Pearl ivory handle.
Per dozen $30 00

Three blades; large clip, spey and punch. Brass lined, nickel silver bolsters. Length, 3¾ inches.
No. 3516—Shell pyralin handle.
Per dozen $28.00

Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3491—Stag handle..Per dozen $30.00
No. 3291—Ebony handle. " 30.00

Spring back. Three blades, crocus polished. Nickel silver cap and bolster Nickel silver lined, milled edges. Length, 3¾ inches.
No. 3403—Stag handle..Per dozen $45.00

Three blades, half crocus polished. Nickel silver cap, bolster and shield. Brass lined. Length, 4½ inches.
No. 3418—Genuine stag handle.
Per dozen $45 00

Three blades. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 3653—Crocus polished, pearl handle.
Per dozen $62.00
No. 3454—Half crocus polished, English patent stag handle.....Per dozen $28.00
No. 3854—Half crocus polished, celluloid handle.....Per dozen $29 00

Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4 inches.
No. 3455—English patent stag handle.
Per dozen $32.00

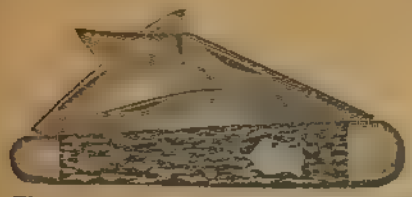
Three blades, crocus polished. Nickel silver cap and bolster. Brass lined.
No. 3414—Length, 3⅝ inches. Stag handle .....Per dozen $28.00
No. 3614—Length, 3⅝ inches. Pearl handle .....Per dozen $51.00
No. 3514—Length, 3⅝ inches. Celluloid, imitation buffalo horn handle.
Per dozen $27 00
No. 3413—Length, 3¾ inches. Stag handle .....Per dozen $30.00

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3415—Stag handle..Per dozen $29.00
No. 3715—Buffalo horn handle.
Per dozen $30 00

Three blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 3406—Stag handle..Per dozen $27 00
No. 3606—Pearl handle.. " 51.00

Average weight, 3 lbs per dozen. One-half dozen in a box.

POCKET KNIVES



Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches.
No. 3425—Stag handle..Per dozen $32.00
No. 3725—Buffalo horn handle.
Per dozen $32 00
No. 3625—Pearl handle Per dozen $48.00

Four blades, full crocus polished Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3¾ inches.
No. 4406—Genuine stag handle.
Per dozen $33.00

Premium stock. Three blades, crocus polished. Nickel silver cap and bolster Brass lined Length, 3⅜ inches.
No. 3407—Stag handle..Per dozen $27.00
No. 3507—Celluloid imitation handle
Per dozen $27.00
No. 3607—Pearl handle.Per dozen $52.00
No. 3707—Buffalo horn handle.
Per dozen $28 00
No. 3508 Green mottled celluloid handle ..... Per dozen $27 00

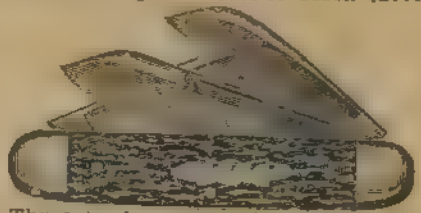
Three blades. Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches
No. 3493—Genuine stag handle, half crocus polished.....Per dozen $30.00
No. 3491—Stag handle, polished
Per dozen $28.00

Three blades, polished. Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3460—Stag handle..Per dozen $27 00

Three blades Nickel silver cap and bolster Brass lined Length, 3⅜ inches.
No. 3438—Polished, stag handle.
Per dozen $27.00
No. 3638—Full crocus polished, pearl handle .....Per dozen $50 00
No. 3538—Half crocus polished, fancy gold colored celluloid handle.Doz $30 00

Three blades, polished. Nickel silver cap and bolster. Brass lined Length, 3¼ inches.
No. 3458—English patent stag handle.
Per dozen $32.00

Three blades, polished. Nickel silver cap and bolster. Brass lined, Length, 3½ inches.
No. 3404—Stag handle..Per dozen $27.00



Three blades, polished. Nickel silver cap and bolster. Brass lined. Length 3⅝ inches.
No. 3405—Stag handle .Per dozen $28 00

Detachable knife, fork, spoon, can opener and crown bottle opener. Crocus polished, polished steel bolster. Iron lined. Length, 4⅜ inches.
No. 3135—Cocoa handle Per dozen $34 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4⅛ inches.
No. 2430—Stag handle..Per dozen $28.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined Length 3¾ inches.
No. 2445—Genuine stag handle.
Per dozen $27.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4⅛ inches.
No. 245—Stag handle...Per dozen $27.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches
No. 2441—Genuine stag handle.
Per dozen $24.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches.
No. 2448—Genuine stag handle.
Per dozen $23 00
No. 2248 Ebony handle Per dozen $23 00
No. 2548—Fancy mottled celluloid handle, saber clip blade...Per dozen $23.00

Average weight, 2½ lbs per dozen, except No. 248. One-half dozen in a box.

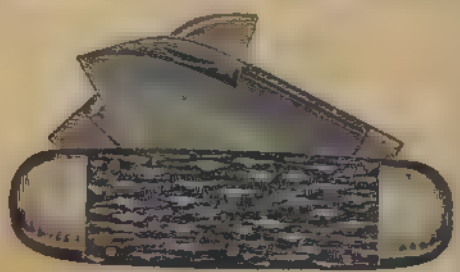
POCKET KNIVES

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2479—Clip blade. Stag handle.
Per dozen $20 00
No. 2458—Spear blade. Stag handle.
Per dozen $20 00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2477—Stag handle..Per dozen $20.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 2467—Stag handle..Per dozen $18.00

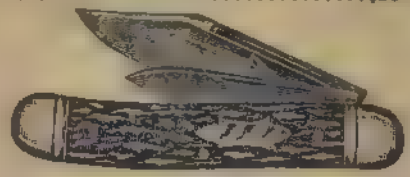
Two blades, half crocus polished Nickel silver cap. Polished steel bolster. Brass lined. Length, 3⅝ inches.
No. 2408—Stag handle..Per dozen $18.00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length 4¼ inches.
No. 240—Stag handle. Weight, 4½ lbs.
Per dozen $40 00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2475—Stag handle..Per dozen $23.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2405—Stag handle..Per dozen $24.00
No. 2505—Striped celluloid handle.
Per dozen $20 00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 2411—Stag handle. Per dozen $20.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2457—Stag handle..Per dozen $21.00
No. 2257—Ebony handle " 21.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2488—Stag handle..Per dozen $21.00

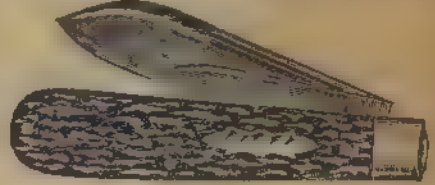
Two blades, polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2473—Stag handle. Per dozen $18 00
No. 2173—Cocoa handle. " 18 00
Two blades. Steel lined; steel bolster and cap.
No. 2050—Stag handle..Per dozen $15 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2468—Stag handle. Per dozen $17 00
Two blades. Steel lined, steel bolster and cap.
No. 2005—Stag handle..Per dozen $15 00

Easy opener. Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2464—Stag handle..Per dozen $20 00
No. 2164—Cocoa handle, " 20 00
No. 2064—Brass handle.. " 19 00
Easy opener. Steel lined; steel bolster and cap.
No. 2000—Ebony handle. Per dozen $17.00

Easy opener. Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2476—Stag handle..Per dozen $16 50
No. 2176—Cocoa handle. " 16.50

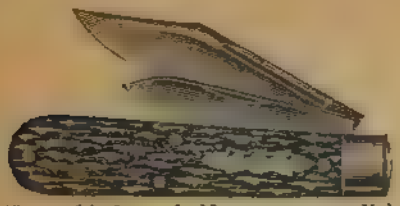
Easy opener. Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length 3 inches.
No. 2576—Celluloid imitation buffalo horn handle ..... Per dozen $17.00



Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length 4⅛ inches.
No. 2452—Stag handle..Per dozen $23 00
No. 2252—Ebony handle. " 23 00

Average weight, 2⅛ lbs per dozen. One-half dozen in a box.

POCKET KNIVES



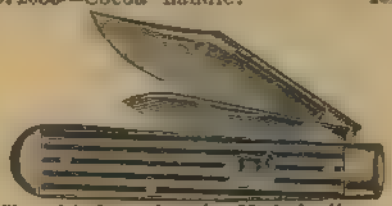
Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3¾ inches.
No. 2150—Stag handle..Per dozen $19.00
No. 2350—White bone handle.
Per dozen $20.00

Two blades, half crocus polished Nickel silver bolster. Brass lined Length, 3⅝ inches.
No. 2449—Genuine stag handle.
Per dozen $20 00
No. 2549—Striped celluloid handle.
Per dozen $18.00
No. 2749—Celluloid imitation buffalo horn handle.
Per dozen $18.00
Two blades. Steel lined; steel bolster.
No. 2010—Ebony handle..Per dozen $15 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 2456—Stag handle..Per dozen $19 00
No. 2156—Cocoa handle. " 19 00
No. 2356—White bone handle
Per dozen $20 00

Two blades, glazed. Polished steel cap and bolster. Iron lined. Length, 3⅛ inches.
No. 2437—Stag handle..Per dozen $18.00
No. 2337—White bone handle.
Per dozen $22.00
No. 2137—Cocoa handle..Per dozen $18.00
Two blades. Steel bolster and cap; steel lined.
No. 2065—Stag handle..Per dozen $15 00

Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2184—Stag handle..Per dozen $18.00
No. 2184—Cocoa handle. " 18.00
No. 2584—Iris pearl celluloid handle.
Per dozen $19.00
Two blades. Steel lined; steel bolster and cap.
No. 2070—Stag handle .Per dozen $15.00
No. 2035—Cocoa handle. " 15.00



Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2546—Fancy striped celluloid handle .....Per dozen $18 00
No. 2446—Stag handle, as No 2546, spear blade .....Per dozen $17.00

Two. blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2423—Stag handle..Per dozen $16.00
Two blades. Steel lined; steel bolster and cap
No. 2075—Stag handle..Per dozen $15 00

Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2427—Stag handle..Per dozen $16.00

Two blades, glazed. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2426—Stag handle..Per dozen $17.00

Two blades, glazed. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches
No. 2425—Stag handle..Per dozen $15.00
Two blades. Steel lined; steel bolster and cap.
No. 2045—Stag handle..Per dozen $15 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅞ inches.
No. 2429—Stag handle..Per dozen $17.00
No. 2529—Green mottled celluloid handle.
Per dozen $18 00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3 inches
No. 2711—Buffalo horn handle.
Per dozen $19 00
No. 2511—Celluloid imitation buffalo horn handle.
Per dozen $19.00
No. 2547—Fancy mottled celluloid handle.
Per dozen $19 00
No. 2544—Green mottled celluloid handle.
Per dozen $19 00

Two blades, half crocus polished. Nickel silver bolster and shield. Brass lined. Length, 3 inches.
No. 2538—Green mottled celluloid handle.
Per dozen $17.00
No. 2534—Fancy mottled celluloid handle.
Per dozen $17.00

Average weight, 2 lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 250—Celluloid imitation buffalo horn handle .....Per dozen $17.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 248—Stag handle...Per dozen $17.00
No. 228—Ebony handle.. " 17.00
No. 258—Celluloid iris pearl handle.
Per dozen $18.00
Two blades. Steel lined; steel bolster and cap.
No. 2025—Stag handle..Per dozen $14 00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 247—Stag handle...Per dozen $18.00
No. 227—Ebony handle.. " 18.00
No. 257—Celluloid imitation buffalo horn handle ..... Per dozen $18 00

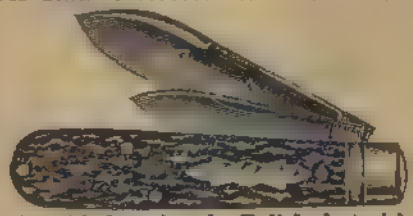
Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3⅝ inches.
No. 2440—Stag handle..Per dozen $18.00
No. 2110—Cocoa handle. " 16 00

Two blades, glazed. Polished steel bolster. Brass lined. Length, 3¾ inches
No. 2428—Stag handle..Per dozen $17.00
No. 2228—Ebony handle. " 17.00

Two blades, glazed. Nickel silver bolster. Brass lined. Length, 3½ inches.
No. 2417—Stag handle..Per dozen $16.00
Steel lined, steel bolster.
No. 2085—Stag handle..Per dozen $17.00

Two blades, glazed. Polished steel bolster. Brass lined. Length, 3¾ inches.
No. 2130—Cocoa handle Per dozen $16.00

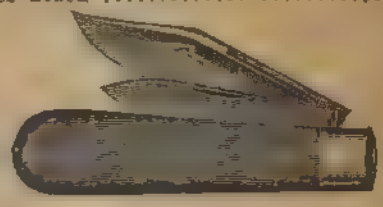
Two blades, glazed. Polished steel bolster. Iron lined. Length, 3 inches.
No. 0212—Cocoa handle..Per dozen $9.00
No. 0222—Ebony handle.. " 9.00
No. 0242—Stag handle.... " 9 00
No. 0232—White bone handle.
Per dozen $9.00



Two blades, glazed. Polished steel bolster Brass lined. Length, 3½ inches.
No. 2422—Stag handle..Per dozen $16 00
No. 2122—Cocoa handle. " 14.00

Two blades, glazed. Nickel silver bolster. Brass lined. Length, 3½ inches.
No. 2404—Stag handle..Per dozen $14.00
No. 2304—White bone handle.
Per dozen $20.00

Two blades glazed. Polished steel bolster Iron lined. Length, 3⅝ inches.
No. 2019—Clip blade. Fancy iron handle
Per dozen $10.00
No. 2018—Spear blade. Fancy iron handle.
Per dozen $10.00
One blade, glazed. Polished steel bolster. Iron lined. Length, 3⅝ inches.
No. 1019—Clip blade. Fancy iron handle
Per dozen $10.00
No. 1018—Spear blade. Fancy iron handle.
Per dozen $10 00



Two blades, glazed. Polished steel bolster. Iron lined. Length, 3¼ inches.
No. 2119—Clip blade. Cocoa handle.
Per dozen $10.00
No. 2219—Clip blade. Ebony handle.
Per dozen $10.00
No. 2419—Clip blade. Stag handle.
Per dozen $10.00
No. 2120—Spear blade. Cocoa handle.
Per dozen $10.00
No. 2220—Spear blade. Ebony handle.
Per dozen $10 00
No. 2420—Spear blade. Stag handle
Per dozen $10 00

Two blades, glazed. Polished steel bolster. Brass lined. Length, 3¾ inches.
No. 2421—Stag handle..Per dozen $17.00

One blade, glazed. Polished steel bolster. Iron lined. Length, 3½ inches.
No. 1103—Clip blade. Cocoa handle.
Per dozen $9.00
No. 1402—Spear blade. Stag handle.
Per dozen $9.00

Average weight, 1¾ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Budding. One blade, glazed. Brass lined. Length, 4⅝ inches.
No. 1818—Ivory blade, tapering Doz $34.00

Budding. One blade, half crocus polished. Nickel silver bolster. Brass lined. Length, 4⅞ inches.
No. 1289—Buffalo horn handle, ivory end .....Per dozen $22.00

Barlow pattern. One blade, glazed Polished steel bolster. Iron lined Length, 3⅝ inches.
No. 171—Stained bone handle..Doz $8.00
Barlow pattern. Two blades, glazed Polished steel bolster. Iron lined Length, 3⅝ inches.
No. 271—Stained bone handle. Doz $10.00

Budding. One blade, half crocus polished. Ivory blade. Nickel silver bolster. Brass lined. Length, 3½ inches.
No. 2289—Buffalo horn handle Doz $27.00

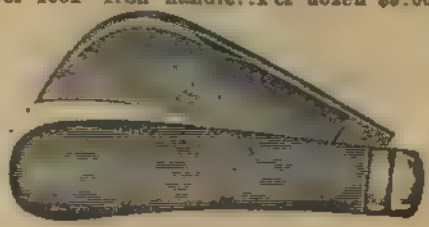
POCKET KNIVES
PRESS BUTTON

Two blades, full crocus polished. Brass lined. Length, 3⅝ inches.
No. 101—Stag handle...Per dozen $19.00
No. 102—Celluloid shell handle.
Per dozen $21.00

Two blades, half crocus polished. Brass lined. Length, 3¾ inches.
No. 115—Stag handle...Per dozen $22.00

Pruning. Two blades, polished. Polished steel cap and bolster. Iron lined Length, 4 inches.
No. 2479—Stag handle..Per dozen $23.00

Pruning. One blade, polished. Steel bolster. Iron lined. Length, 3⅝ inches.
No. 1001—Iron handle..Per dozen $9.00



Pruning. One blade, glazed. Polished steel bolster. Iron lined.
No. 113—Length, 4⅛ inches. Cocoa handle .....Per dozen $15.00
No. 121—Length, 4⅛ inches. Ebony handle ..... Per dozen $15.00
No. 122—Length, 3⅝ inches. Ebony handle ....Per dozen $14.00

Pruning. One blade, glazed. Polished steel cap and bolster. Iron lined Length, 4⅝ inches.
No. 123—Ebony handle. Per dozen $27.00

TIMBER SCRIBE KNIVES

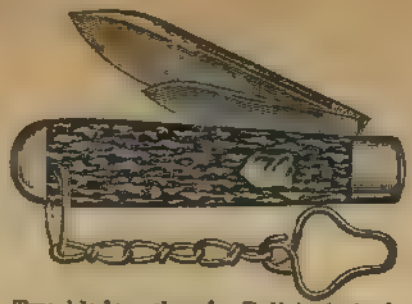
One hook blade, 2¾ inches long, with 1½-inch scribing hook. Lgth, 3½-inch.
No. 135R—Cocoa handle. Per dozen $15.00

POCKET KNIFE PURSES

Kid leather.

Nos.	2	3
Length, inch	2¾	3¼
Per dozen	$1 50	1 50
Nos.	4	5	6
Length, inch	3½	3¾	4
Per dozen	$1 50	1.50	1.50

One dozen in a box.



Two blades, glazed. Polished steel cap and bolster. Brass lined. Lgth, 3½-inch.
No. 2400—Stag handle, with chain.
Per dozen $18.00

Two blades, glazed. Polished steel bolster and chain. Iron lined. Lgth, 3½-in.
No. 2216—Ebony handle. Per dozen $11.00

One blade, polished. Polished steel bolster. Iron lined. Length, 3 inches.
No. 1110—With polished steel chain. Cocoa handle .....Per dozen $9.00
No. 1100—Without chain. Cocoa handle.
Per dozen $8.00

COMBINATION KNIFE

One blade polished. Contains 9 distinct tools. Nickel silver cap and bolster. Brass lined. Length, 4⅛ inches.
No. HHH—Stag handle. Per dozen $32.00

Two blades; clip and pen. Brass lined, nickel silver bolster and cap. Lgt. 3½-in.
No. R15N—Pyralin handle.
Per dozen $24.00

ADJUSTABLE PLANES

Bottoms perfectly true and smooth. Full polished caps. Cutters are extra heavy, which prevents chattering when used on very hard wood or knots. Made of highest grade crucible steel, oil tempered, full polished, sharpened and whetted on an oil stone by hand. Ready for use. Screw and lever adjustment. Brass screw.

SMOOTH—WITHOUT HANDLE

Nos. S23 and S24

WOOD BOTTOM SMOOTH HANDLED

JACK, FORE AND JOINTER

	Nos. S35 and S36				Nos. S26 to S33					
	Unhandled		Handled		Jack		Fore		Jointer	
Nos.	S 23	S 24	S 35	S 36	S 26	S 27	S 28	S 29	S 31	S 33
Length, inch	9	8	9	2⅜	2	2½	2⅜	2⅜	2⅜	2⅜
Size of cutters, inch	1⅜	2	9	10	15	15	18	20	24	28
Weight each, lbs.	3	3	3½	4½	4⅝	5	5½	6⅜	7½	8½
Each	$4.50	4.75	$5.00	6.50	5.00	6.00	6.50	7.00	7.25	8.00

IRON

Black enameled cast iron frames. Finely varnished rosewood handles and knobs.

SMOOTH BOTTOM

CORRUGATED BOTTOM

	Smooth				Jack	Fore	Jointer	
Nos.	S2	S3	S4	S4½	S5	S5½	S6	S7	S8
Size cutters, in	1⅝	1¼	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Length, inch	7	8	9	10	14	15	18	22	24
Wght each, lbs	3½	3¾	4¼	4½	5	7	7½	8¼	
Each	$5.00	6 00	7 25	7.25	8.00	9 00	10.00	10.50	12 00	

	Fore, Jack and Jointer									
	Smooth				Jack			Fore	Jointer	
Nos.	S3C	S4C	S4½C	S5C	S5½C	S6C	S7C	S8C
Size cutters, in.	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Length, inch	8	9	10	14	15	18	22	24
Wght each, lbs	3½	3¾	4¼	4½	5	7	7½	8¼
Each	$6 00	6 00	7.25	7.25	8.00	9.00	10 00	12.00

BLOCK PLANES

Japanned top. Polished face and sides. The throat can be quickly opened or closed for fine or coarse work by a movement of the cam lever at nose.

	Regular	Adjustable
Nos.	S 9½	15	S 220
Cut, inch	1⅜	1¾	1⅝
Length, inch	6	7	7
Weight each, lbs.	1⅜	1⅝	1⅝
Each	$3.50	3.75	3.60

KNUCKLE JOINT

No.	S 18
Cut, inch	1⅜
Length, inch	6¼
Weight each, lbs.	1⅝
Each	$3.60

One dozen in a cardboard box.

LOW ANGLE

Nos.	S 60	S 65
Cut, inch	1⅜	1½
Length, inch	6	7
Weight each, lbs.	1¼	1½
Each	$3.50	4.00

NOT ADJUSTABLE

Nos.	S 101	S 102
Length, inch	3½	5½
Cut, inch	1	1¾
Weight each, lb.	⅝	⅞
Each	$1 00	2 00

	Not Adjustable	Adjustable
Nos.	S 110	S 108
Length, inch	7½	6½
Cut, inch	1⅜	1¼
Weight each, lbs.	1¼	1
Each	$2.35	2.10

DOUBLE END—NOT ADJUSTABLE

No.	S 130
Length, inch	8
Cut, inch	1¾
Weight each, lbs.	1⅜
Each	$3.00

All above, one in a cardboard box, except No. S101, one-half dozen in a box.

ADJUSTABLE PLANES

Manufactured by the Stanley Rule and Level Co.

BAILEY WOOD SMOOTH BOTTOM

Varnished beechwood bottom, knob and handle. Japanned cast iron frame and cap. Tempered tool steel cutters. Ground and polished. Screw and lever adjustment.

WITHOUT HANDLE

HANDLED

JACK, FORE AND JOINTER

	Unhandled		Handled		Jack	Fore	Jointer	
Nos.	22	24	25	35	36	26	27½	28	31	32
Length, inch	8	8	9½	9	10	15	15	18	24	26
Size cutter, inch	1¾	2	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	2½	3	2½	3½	4½	4	5½	5¾	6½	7½
Each	$5.25	5.50	5.25	6.00	6.75	5.50	6.25	6.75	7.75	8.00

IRON

Japanned cast iron frames. Varnished rosewood handles and knobs. Polished caps. Tempered polished tool steel cutters.

CORRUGATED BOTTOM

SMOOTH BOTTOM

	Smooth					Jack		Fore	Jointer	
Nos.	1	2	3	4	4½	5	5½	6	7	8
Length, inch	5½	7	8	9	10	14	15	18	22	24
Size of cutter, inch	1¼	1⅝	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	1¼	2½	3	4	5	5	7	8	8	9¾
Each	$5.25	6.25	7.50	7.50	9.25	9.25	10.50	12.00	13.50	16.50

	Smooth				Jack		Fore	Jointer	
Nos.	3 C	4 C	4½ C	5 C	5½ C	6 C	7 C	8 C
Length, inch	8	9	10	14	15	18	22	24
Size of cutter, inch	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	3	4	5	5	7	8	8	9¾
Each	$7.50	7.75	9.00	9.25	10.50	12.00	13.50	16.50

IRON BED ROCK

Japanned cast iron frames. Varnished rosewood handles and knobs. Polished caps. Tempered and polished tool steel cutter. Screw and lever adjustments. Designed so that the entire bottom or face on frog rests solidly on seat of frame and can be adjusted for wide or narrow throat openings.

CORRUGATED BOTTOM

SMOOTH BOTTOM

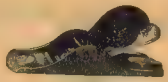
	Smooth				Jack		Fore	Jointer	
Nos.	602	603	604	604½	605	605½	606	607	608
Length, inch	7	8	9	10	14	15	18	22	24
Size of cutter, inch	1⅝	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	2¼	3½	4½	5	5¼	6¾	7½	8½	9¾
Each	$7.50	7.75	9.00	9.75	9.75	10.75	12.75	15.00	18.00

	Smooth		Jack		Fore	Jointer	
Nos.	603 C	604 C	605 C	605½ C	606 C	607 C	608 C
Length, inch	8	9	14	15	18	22	24
Size of cutter, inch	1¾	2	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	3½	4½	5¼	6¾	7½	8½	10¾
Each	$7.75	9.00	9.75	10.50	12.75	15.00	18.00

Above, one in a cardboard box.

IRON BLOCK PLANES

*Manufactured by the Stanley Rule and Level Co.

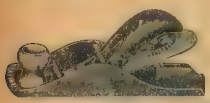


Japanned cast iron frames. Tempered and polished steel cutters.

Toy size Not Adjustable	
No.	101
Length, inch	3½
Size of cutter, inch	1
Weight each, lb	⅛
Each	$0.75

Toy size. With handle Not Adjustable	
No.	100
Length, inch	3½
Size of cutter, inch	1
Weight each, lbs	⅛
Each	$1.05

	Not adjustable)	(Adjustable)
Nos.	102	103
Length, inch	5¼	5½
Size of cutter, inch	1⅜	1⅝
Weight each, lb	⅞	1
Each	$1.50	1.90



Not Adjustable

No.	110
Length, inch	7½
Size of cutter, inch	1⅝
Weight each, lbs	1¼
Each	$1.95

Double end. Not Adjustable

No.	130
Length, inch	8
Size of cutter, inch	1⅝
Weight each, lbs	2
Each	$3.00

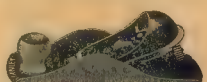
Double end, with screw adjustment.

No.	131
Length, inch	8
Size of cutter, inch	1⅝
Weight each, lbs	1¾
Each	$4.50

Note—Nos. 130 and 131 have 2 slots and 2 cutting seats. They can be used as block planes, or, by reversing the position of the cutter be used as a bull nose plane, cutting into corners or places difficult to be reached with any other plane.

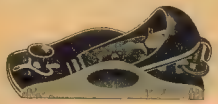
Adapted for manual training use. With screw adjustment.

No.	203
Length, inch	5½
Size of cutter, inch	1⅜
Weight each, lbs	1¼
Each	$2.50



With screw attachment.

No.	220
Length, inch	7½
Size of cutter, inch	1⅝
Weight each, lbs	1½
Each	$3.00



	Japanned Trimmings		Nickel Trimmings	
Nos.	9½	15	16	17
Length, inch	6	7	6	7
Cutter, inch	1⅝	1⅝	1⅝	1⅝
Wgt each, lbs	1½	1¾	1½	1¾
Each	$2.50	2.75	2.75	3.00

Low angle block planes, with screw adjustment 12 degree angle. Adjustable throats.

	Nickel Trim		Japan Trim
Nos.	60	60½	65½
Length, inch	6	6	7
Size of cutter, inch	1⅝	1⅝	1⅝
Weight each, lbs	1¼	1¼	1¼
Each	$4.00	3.75	4.50

No.	65
Length, inch	7
Size of cutter, inch	1⅝
Weight each, lbs	1½
Each	$4.75

All above, one in a cardboard box

No.	61
Length, inch	6
Size of cutter, inch	1⅜
Weight each, lbs	1¼
Each	$3.75

PLANES

Manufactured by Stanley Rule and Level Co.

BLOCK

Nickel plated trimmings. Knuckle joint. With screw, lever and throat adjustments.

Nos.	18	19
Length, inch	6	7
Size of cutter, inch	1⅝	1⅝
Weight each, lbs.	1¾	1¾
Each	$4.50	5.00

RABBET AND BLOCK

Nickel plated trimmings. With screw adjustment. Right side detachable to change to rabbet cutter, set on a skew.

No.	140
Length, inch	7
Size of cutter, inch	1¾
Weight each, lbs.	1¼
Each	$4.75

BULL NOSE RABBET

Japanned trimmings. Not adjustable.

No.	75
Length, inch	4
Size of cutter, inch	1
Weight each, lb.	¾
Each	$1.50

CABINET MAKERS RABBET

Plane will lie perfectly flat on either side and can be worked either right or left hand. Has adjustable throat and handy grip. Nickel plated. With screw adjustment.

No.	80
Length, inch	4
Size of cutter, inch	1
Weight each, lb.	1
Each	$6.75

Nickel plated. With screw adjustment

No.	92
Length, inch	5½
Size of cutter, inch	⅝
Weight each, lbs.	1½
Each	$6.75

Nickel plated. Without screw adjustment

Nos.	93	94
Length, inch	6¼	7¼
Size of cutter, inch	1	1¼
Weight each, lbs.	1¾	2
Each	$9.00	9.75

Note—No. 92 planes are designed for fine cabinet work where extreme accuracy is required. The sides and bottom being square with each other, the plane will lie perfectly flat on either side, and can be used right or left.

SIDE RABBET

Used for side rabbeting and trimming dadoes, moulding and grooves of all kinds The reversible nose piece gives the tool a form by which it will work close into the corners.

	Right hand	Left hand
Nos.	98	99
Length, inch	4	4
Size of cutter, inch	½	½
Weight each, lb.	¾	¾
Each	$3.30	3.30

LOW ANGLE JACK

This plane is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained from the ordinary block plane. Throat and screw adjustments.

No.	62
Length, inch	14
Size of cutter, inch	2
Weight each, lbs.	3¾
Each	$10.25

PIANO MAKERS EDGE

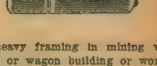
No 97

A useful tool for piano makers and all cabinet workers, for trimming inside work where space prevents the use of any other plane. Screw adjustment.

No.	97
Length, inch	10
Size of cutter, inch	2¼
Weight each, lbs.	3¾
Each	$8.00

All above, one in a cardboard box.

CARRIAGE MAKERS RABBET



For heavy framing in mining work, carriage or wagon building or work of similar nature.

Nos.	10½	10
Length, inch	9	13
Cutter, inch	2¼	2¼
Weight each, lbs.	3	4¼
Each	$9.75	11.75

PLANES

Manufactured by Stanley Rule and Level Co.

IMPROVED RABBET

Will lie perfectly flat on either side, and can be used right or left hand equally well, while planing into corners or up against perpendicular surfaces. Fitted with a depth gauge. Improved rabbet and spur, permitting using across grain.

	Without Spur Cutter		With Spur Cutter		
Nos.	180	182	190	191	192
Length, inch	8	8	8	8	8
Cutter, inch	1¼	1	1½	1¼	1
Weight each, lbs	2¾	2	2¾	2¼	2
Each	$5.00	5.00	5.25	5.25	5.25

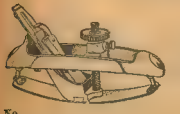
RABBET AND FILLETSTER

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand filletster, with adjustable spur and depth gauge. Remove the arm to which the fence is secured, making a handled rabbet plane and with two seats for the cutter, so that the tool can be used as a bull-nose rabbet if required.

No 78

No.	78
Length, inch	8½
Cutter, inch	1½
Weight each, lbs	3
Each	$6.00

VICTOR CIRCULAR



This is a more recent and improved design. The face is fastened at each end to the plane body, and adjusted by a screw at the center. Nickel plated.

No.	20
Length, inch	10
Cutter, inch	1¾
Weight each, lbs	4
Each	$14.00

IMPROVED DADO

Cutter is set on a skew. Fitted with adjustable depth gauge and two adjustable spurs.

No. 39—							
Cutter, inch	¼	⅜	½	¾	⅝	¾	1
Length, in.	8	8	8	8	8	8	8
Wght ea, lbs.	2	2	2	2¼	2¼	2½	2½
Each	$6.00	6.10	6.25	6.75	7.25	7.50	7.75

All above, one in cardboard box.

Adjustable fence slides under the bottom, regulating the width of cut. Fitted with two spurs, one on each side, and it also has an adjustable depth gauge. Cutter is adjustable endwise.

No.	278
Length, inch	6¾
Cutter, inch	1
Weight each, lbs	2
Each	$6.00

SKEW CUTTER, FILLETSTER AND RABBET

Tempered and polished tool steel cutters. Equipped with a fence which can be attached to either side of the plane so that it can be used either right or left hand.

No.	289
Length, inch	8½
Cutter, inch	1¾
Weight each, lbs	4
Each	$7.50

ADJUSTABLE CIRCULAR

By means of the graduated scale on the gears, the flexible steel face can be easily shaped to any required arc, either concave or convex, by turning the knob on the front of the plane.

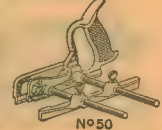
No.	113
Length, inch	10
Cutter, inch	1¾
Weight each, lbs	4
Each	$12.50

COMBINED BEADING AND MATCHING

By adjustment of the fence, center beading can be done up to 5 inches from the edge of a board. Except for working across the grain the spurs need not be used.

The cutters comprise 7 plow and dado bits, ⅛, 7/32, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾-inch; 7 beading tools, ⅛, 7/32, ¼, 5/16, ⅜, 7/16 and ½ inch; and a ¼-inch tonguing tool.

Nickeled stock and fence.



No 50

No.	50
Length, inch	9½
Weight each, lbs	4
Each	$15.00

PLANES

Manufactured by Stanley Rule and Level Co.

SWINGING FENCE MATCH

Has two plow cutters of the width, and one extra wide cutter. The fence in one setting exposes two cutters for cutting the tongue, and, when reversed, leaves only one exposed for cutting the groove. On thicker boards than the plane works on center, the extra wide cutter is substituted for groove cutter when cutting tongue. Nickel plated. Rosewood knobs.

Nos.	48	49
Cuts groove, inch	⅞	⅞
On boards, inch	¾ to 1¼	½ to ¾
Centers on, inch	⅞	⅞
Weight each, lbs	3¾	2¾
Each	$9.75	9.75

DOUBLE END MATCH

Provided with both tongue and groove irons. With one side a tongue can be cut, and by reversing ends the plane will cut a groove to fit. The tonguing tools are made wider on one side for use on thicker stuff than the plane will tongue and groove in the center.

No.	148
Cuts groove, inch	⅞
On boards, inch	¾ to 1
Centers on, inch	⅞
Weight each, lbs	2⅝
Each	$8.00

ROUTER

OPEN THROAT

For surfacing the bottom of grooves or other depressions parallel with the general surface of the work. Open throat. Bottom designed so that an extra wooden bottom of any size desired can be screwed on, enabling routing on large openings. Nickeled.

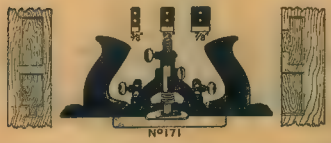
No.	71
Length, inch	7½
Cutter, inch	¼ ½
Weight each, lbs	2⅝
Each	$7.50

CLOSED THROAT

Same as No. 71, but with closed throat.

No.	71½
Length, inch	7½
Cutter, inch	¼ ½
Weight each, lbs	2⅝
Each	$5.40

DOOR TRIMMER

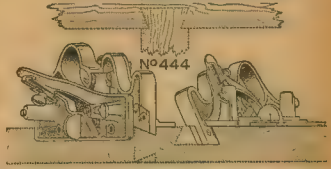


Will make mortises for butts, face plates, strike plates, escutcheons, up to depth of ⅝-inch and a width of 3 inches. The fence regulates the position of the cut and insures sides of cut being parallel. Japanned.

With three forged steel cutters, ¾, ⅝ and ⅞-inch.

No.	171
Length, inch	11
Weight, lbs	3¾
Each	$10.50

DOVETAIL TONGUE AND GROOVE

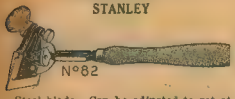


Cuts both tongue and groove for dovetail work. Four cutters are furnished with each plane, three of which are for cutting grooves of different sizes and one for cutting tongues of any size. Complete instructions for operating accompany each plane. Nickeled.

No.	444
Length, inch	9
Weight, lbs	6½
Each	$21.50

All above, one in a cardboard box.

ADJUSTABLE
STANLEY



Steel blade. Can be adjusted to set at any angle. Japanned cast iron frame and hand e shank. Polished maple handle and knob. Steel screw.

No.	82
Size of blade, inch	3
Length over all, inch	14½
Weight each, lbs.	1¾
Each	$3 80
Extra cutters	Each $0.45

One in a cardboard box.

SCRAPER AND HOLDER

Any style or size of scraper can be firmly held. The slant enables its use in corners and out-of-way places. Each holder furnished with a beveled edge blade. Plain beechwood handle. Tempered and polished tool steel blade. Malleable iron clamp and screw.

No.	2
Length handle, inch	12
Blade, inch	3x3
Weight per dozen, lbs.	12
Per dozen	$12.00

One-half dozen in cardboard box.

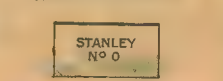
CABINET SCRAPERS
MALLEABLE IRON
STANLEY

Blade may be sprung to a slight curve by the thumb screw shown at center of cut which will be found a great advantage in working with this tool. Raised handles.

No.	80
Size of blade, inch	2¾
Length over all, inch	11
Weight each, lbs.	2
Each	$2.40
Extra cutters	Each $0.45

One in a cardboard box.

STANLEY FLAT STEEL



Flat 18 gauge steel. Cut from saw steel. Polished and tempered.

Nos.	20	22	
Size, inch	2½x5	3x4	
Weight per dozen, lbs.	2	2	
Per dozen	$7 50	7 50	
Nos.	24	26	28
Size, inch	3x5	3x6	3½x6
Weight per dozen, lbs	2½	3	3¾
Per dozen	$9.00	9.00	10.50

One-half dozen in a cardboard box.

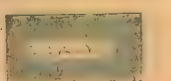
STEARNS

The blade of this scraper is of special quality steel, carefully tempered. Malleable frame. Japanned finish. Raised handles.

No.	8
Size of blade, inch	2¾
Length over all inch	11
Weight each, lbs.	2
Per dozen	$21.00

One in a cardboard box.

DISSTONS FLAT STEEL



Made from 18 gauge crucible steel, highly polished.

Nos.	34	35	
Size, inch	3x4	3x5	
Weight per dozen, lbs.	2	2	
Per dozen	$2 50	2 70	
Nos.	36	44	45
Size, inch	3x6	4x4	4x5
Weight per dozen, lbs	2½	3	3½
Per dozen	$2 80	3 10	3 40

One dozen in a cardboard box.

CABINET SCRAPERS
STARRETTS UNIVERSAL

Edges of blades are ground perfectly square. There are therefore eight sharp cutting edges, and any of them can be brought into use by means of the handle with its ball joint connections. To lock or release the joint or place the blade at any angle it is simply necessary to give the handle a slight turn. Blade can be removed by removing the wing nut. Guard may be instantly slipped on or off either side or end of blade, and enables one to use the tool with arm grip.

No.	194
Weight each, lbs.	1¼
Each	$1 20
Extra Blades	Each 0.20

One in a cardboard box.

FLOOR
STEARNS

Adjustable cross-handle. Aluminum finish, with rubber wheels. The knife scrapes the floor when the machine is drawn towards the operator, and will, therefore, in connection with the adjustable cross-handle, which may be placed to one side or the other, work up to the wall and into corners. On using this see that the screw in the top of the cap is adjusted so that it will strike level on the knife. After once getting this screw in the proper place, leave it there, and in removing the knife for sharpening, always use the screw where the slot is. The knife is firmly clamped in the scraper, which, together with the weight of the machine, nearly all of which rests on the knife, prevents vibration or chatter, doing away with all wavy effects on the floor.

No.	10
Width of cut, inch	6
Diameter of wheel, inch	5
Length of handle, inch	38½
Length over all, inch	54
Weight each, lbs.	135
Each	$40 00

One in a case.

WOOD BENCH PLANES

Selected and seasoned beechwood. Plain finish. Double cutter, forged from crucible steel, oil tempered, full polished and sharpened

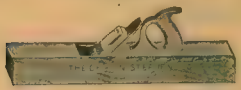
SMOOTH WITHOUT HANDLE

Length, inch	8
Size of cutters, assorted, inch	2 2⅛ 2¼
Weight each about, lbs.	2
Each	$3.25

JACK

Length, inch	16
Size of cutters, assorted, inch	1⅞ 2 2⅛ 2¼
Weight each about, lbs.	4¼
Each	$4 00

FORE



Length, inch	22
Size of cutters, assorted, inch	2⅛ 2⅜ 2½ 2⅝
Weight each, about, lbs.	6½
Each	$6 00

JOINTER

Length, inch	26
Size of cutters, assorted, inch	2½ 2⅝
Weight each about, lbs.	8
Each	$7 50

SHIP SMOOTH

Length, inch	9
Size of cutters, assorted, inch	1⅞ 2 2½ 2¾
Weight each about, lbs.	2¼
Each	$3.50

SHIP JACK AND FORE

	Ship Jack	Ship Fore
Length, inch	16	22
Size of cutters, assorted, inch	1¾, 2, 2½, 2¾	2½, 2⅝
Weight each about, lbs.	4	5
Each	$5.50	6.75

One in paper package

FANCY WOOD PLANES

SKEW RABBET

For rabbeting all kinds of work to secure a tight joint

No. 116—Length, 9½ inches.

Size, inch	⅛	⅜	½	⅝	¾	1	1¼	1½
Wt. ea., lbs.	½	⅝	⅞	1	1⅛	1⅜	1½	
Each	$2.00	2.00	2.00	2.00	2.00	2.25	2.50	

RABBET WITH SIDE HANDLE

Jack rabbet with side handle and two spur cutters.

No. 110½—Length, 16 inches.

Size, inch	1	1¼	1½	1¾	2
Weight each, lbs.	2¼	2⅜	2⅝	3⅛	3½
Each	$5.25	5.25	5.25	5.25	5.25

All above, one in a paper package.

PLANE IRONS

FOR BLOCK AND RABBET PLANES

In Ordering Specify Number of Plane

~~Stillson~~ planes, Nos	S 9½	.....	.....	S 60	.....	S 102	S 103	S 110	.....
Stanley planes Nos.	.....	.....	.....	.....	.....	102	103	110	.....
Baileys planes Nos.	9½	10	10½	60	62	.....	.....	.....	140
Width Stanley and Bailey, inch	1⅝	2⅛	2⅛	1½	2	1¼	1¼	1⅝	1⅝
Weight per dozen, lbs	1½	6	6	1¼	4	1½	1¼	1⅝	1¼
Per dozen	$6.00	10.80	10.80	6.00	15.00	3.50	3.50	5.00	7.50

No. 9½ plane iron will also fit Nos. 9¾, 15, 15½, 16, 17 18, 19, 65, 65½, 120, 131 and 220.
No. 60 plane iron will also fit No. 60½ and 203.
No. 110 plane iron will also fit No. 130.

FOR ADJUSTABLE IRON OR WOOD PLANES

In ordering, specify for iron or wood planes.

SINGLE **DOUBLE**

Single—Width, inch	1¼	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Weight per dozen, lbs	1¼	2	2¼	2⅜	3⅛	3½	4	4⅝
~~Stillson~~	Each	.75	.80	.80	.85	.90	1.00	1.00
Stanley	"	$0.65	.75	.80	.80	.85	.90	1.00	1.00
Double—Width, inch	1¼	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Weight per dozen, lbs	2⅛	3¼	4½	5¼	6¼	7	7½	8
~~Stillson~~	Each	.....	$1.35	1.35	1.50	2.00	2.25	.....
Stanley	"	1.20	1.80	1.35	1.85	1.50	2.20	2.25	2.60

FOR WOOD BENCH PLANES

GROUND SHARP

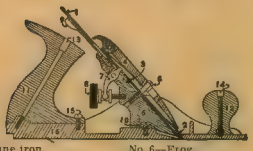
BUCKS SINGLE **BUCKS DOUBLE**

Single—Width, inch	1½	1⅝	1¾	1⅞	2	2⅛	2¼	2⅜	2½	2⅝	
Weight per dozen, lbs	4¾	5	5½	5½	6	6⅝	6¾	7¼	8½	12	
Bucks	Per dozen	$4.40	4.50	4.60	5.00	5.80	5.50	6.50	7.00	7.40	8.50
Double—Width, inch	1	1¼	1⅜	1½	1⅝	1¾	1⅞	2	2⅛	2¼	2⅜	2½	2⅝
Weight per dozen, lbs	5	6	6⅝	7	7¼	7⅝	8¼	9½	10	11	12	12⅝	13½
Bucks	Per dozen	$8.40	8.40	8.40	8.50	8.80	9.40	9.70	10.10	11.10	12.20	13.60	14.20

Bucks single, one dozen; balance, one-half dozen in box

PARTS FOR IRON AND WOOD BOTTOM PLANES

BAILEY PLANES

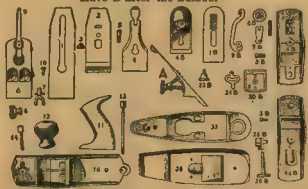


No. 1 -Plane iron.
No. 2—Plane iron cap.
No. 3—Plane iron screw.
No. 4—Cap.
No. 5—Cap screw.
No. 6—Frog.
No. 7 Y adjustment.
No. 8—Brass adjusting nut.
No. 9—Lateral adjustment.

No 10—Frog screw.
No. 11—Handle.
No. 12—Knob.
No. 13—Handle "bolt and nut."
No. 14—Knob "bolt and nut."
No 15—Handle screw.
No. 16—Bottom, iron plane.
No. 35—Top casting, wood plane.
No. 36—Bottom, wood plane.

BLOCK PLANES

Have B after the number



No. 1B—Plane iron.
No. 4B—Cap.
No. 5B—Cap screw.
No. 7B—Adjusting lever.
No. 8B—Adjusting nut.
No. 9B—Lateral adjustment.
No. 16B—Bottom (adjustable throat).
No. 20B—Mouth piece.
No. 21B—Eccentric plate.
No. 22B—Knob.
No. 26B—Adjustable frog.
No. 28B—Adjusting screw.
No. 46B—Bottom.

In ordering, care should be taken to always give the number of the plane for which the part is wanted.

PRICE LIST ON PARTS OF PLANES

BAILEY IRON PLANES

Nos.	Name of Part	No. of Plane	1 2	3 3c	4 4c	4½ 4½c	5 5c	5½ 5½c	6 6c	7 7c	8 8c
3	Cap screw		$0.10)								
4	Lever cap		.50)								
5	Lever cap screw		.10)								
6	Frog complete		.70)								
7	Y adjusting lever		.10)								
8	Adjusting nut		.20)								
9	Lateral adjusting lever		.20)	For all numbers							
10	Frog screw		.10)								
11	Plane handle		.40)								
12	Plane knob		.30)								
13	Handle bolt and nut		.20)								
14	Knob bolt and nut		20)								
15	Plane handle screw		.....	.....	.....	.10	.10	.10	.10	.10	.10
16	Plane bottom		1.70	2.00	2.00	2.40	2.40	2.40	3.30	4.70	5.70
46	Frog adjusting screw		.10	.10	.10	.10	.10	.10	.10	.10	.10

Add 10 per cent for corrugated bottoms.

RABBET AND ROUTER PLANES

Nos.	Name of Part	No. of Plane	90 92	93	94	196	98 99	71 71½	75	95	97
1	Single plane iron		$0 60	.60	.60	50	40	.60	40	.40	90
4	Lever cap		30	.30	.30	.20	.20	.....	.20	.20	.30
12	Plane knob		.....	.....	.....	.....	.30	.30	.....	.....	.30
14	Knob bolt and nut		.....	.....	.....	.....	.....	.20	.....	.....	.20
16	Plane bottom		3 50	4.20	5.00	2.40	1.20	2.00	.60	1.60	2 00
27	Cutter bolt adjusting screw		.40	40	.40	.....	.....	.....	.....	.....	.....
47	Extra attachment		.....	.....	.....	.....	.....	.50	.....	.....	.....
48	Collar		.....	.....	.....	.....	.....	.50	.....	.....	.....

For irons for adjustable planes, see page 136.

In ordering frogs specify new or old style.

PRICE LIST ON PARTS OF PLANES

BAILEY WOOD PLANES

Nos	Name of Part	No. of Plane	22	24-25 35	26	27½	26	31	32	36	37
3	Cap screw		$0.10)								
4	Lever cap		.40)								
5	Lever cap screw		.10)								
6	Frog complete		.60)								
7	Y adjusting lever		.10	For all numbers							
8	Adjusting nut		.20)								
9	Lateral adjusting lever		.20)								
10	Frog screw and bushing		.20)								
11	Plane handle		.....	.20	.20	.20	.20	.20	.20	.20	.20
12	Plane knob		.20	.20	.20	.20	.20	.20	.20	.20	.20
13	Handle bolt and nut		.....	.20	.20	.20	.20	.20	.20	.20	.20
14	Knob screw		.10	.10	.10	.10	.10	.10	.10	.10	.10
16	Plane bottom		.80	.80	1.00	1.00	1.40	1.60	1.70	1.00	1.40
17	Top casting		.40	.40	.40	.40	.40	.40	.40	.40	.40

RABBET, MATCHING AND DADO PLANES

Nos.	Name of part	No. of Plane	39 48	49	78	146 to 148	171	190 to 192	239 2.5½	278	289
1	Single plane iron		.40	.40	.40	1.30	.80	.40	.50	.40	.60
4	Lever cap		.20	.20	.20	.30	.....	.20	. .	.20	.20
16	Plane bottom		2.40	4.00	2.00	3.00	1.80	1.80	3.00	2.00	2.40
50	Fence		1.00	1.00	.60	.....	.60	.....	.80	.60	.40
51	Fence thumb screw		.....	.....	.10	.....	.10	.....	.10	.10	.10
61	Short arm		.....	.....	.20	.....	.40	.....	.20	.20	.20
70	Adjusting depth gauge		.40	.....	.40	.....	.....	.40	.40	.40	.40
71	Depth gauge thumb screw		.20	.....	.20	.....	.....	.30	.10	.20	.20
85	Spurs with screws		.20	.....	.10	.....	.....	.10	.50	.10	.10

BAILEY AND STANLEY BLOCK PLANES

Nos.	Name of Part	No of Plane	9½ 9¾	15 15½	16 17	18 19	60 60½	62	61 63	65	65½
1	Single plane iron		.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Lever cap		$0.20	.20	.30	.40	.30	.30	.30	.40	.20
5	Lever cap screw		.10	.10	.10	.10	.10	.10	.10	.10	.10
6	Frog complete		.....	.....	.....	.....	.20	.20	.20	.20	.20
7	Adjusting lever		.10	.10	.10	.10	.....	.....	.....	.....	.....
8	Adjusting nut		.20	.20	.20	.20	.20	.20	.20	.20	.20
9	Lateral adjusting lever		.20	.20	.20	.20	.....	.....	.....	.....	.....
11	Plane handle		.50	.50	.....	.....	.60	.....	.....	.....	.....
16	Plane bottom		1.40	1.50	1.50	1.50	1.20	3.50	1.00	1.50	1.50
21	Eccentric plate		.20	.20	.20	.20	.20	.20	.20	.20	.20
22	Finger rest knob		.20	.20	.20	.20	.20	.30	.20	.20	.20

COMBINATION PLANES

Nos	Name of Part	No. of Plane	45	46	47-444	50	55	143
1	Cutters	Per set	$7.00	$4.00	$2.50	$3.50	$12.00	$4.00
16	Main stock or bottom		5.00	5.00	5.00	2.50	6.00	6.00
23	Cutter bolt		.30	.30	.30	.30	.30	.....
24	Cutter bolt wing nut		.30	.30	.30	.30	.30	.....
25	Cutter bolt clip and screw		.10	.10	.....	.....	.10	.....
27	Cutter bolt adjusting screw		.20	.....	.....	.....	.20	.....
28	Cutter bolt adjusting wheel		.20	.....	.....	.....	.20	.....
30	Sliding section		3.00	3.00	3.00	.60	1.50	.....
32	Thimble		.....	.....	.....	.....	.30	.....
33	Thimble check nut		.....	.....	.....	.....	.30	.....
34	Adjustable bottom		.....	.....	.....	.....	2.50	.....
37	Adjustable bottom screw		.....	.....	.....	.....	.40	.....
40	Auxiliary center bottom		.....	.....	.....	.....	.60	.....
42	Angle iron and adjusting screws		.....	.....	.....	.....	.60	.....
50	Left fence		1.50	1.50	2.00	1.50	2.70	2.00
52	Tilting guard plate, wood		.....	.....	.....	.....	.40	.....
53	Tilting iron with swivel		.....	.....	.....	.....	.80	.....
54	Left fence adjusting screw		.....	.....	.....	.....	.40	.....
56	Right fence		.....	.....	2.50	.....	2.00	.....
57	Right fence tilting plate		.....	.....	.....	.....	.40	.....
60	Long arms	Per pair	1.00	1.00	1.00	1.00	1.00	1.00
61	Short arms	"	.50	.50	.50	.....	.50	.....
70	Adjusting depth gauge		.40	.40	.40	.40	.40	.40
73	Adjusting beading stop		.40	.....	.....	.....	.60	.....
75	Slitting cutter stop		.20	.20	.20	.20	.20	.....
80	Cam stop		.80	.....	.....	.....	.80	.....
85	Spurs with screws		.10	.10	.10	.10	.10	.....

Screws Nos. 29, 31, 41, 43, 51, 58, 71, 76, 81, 86 and 87, $0.20 each.

PRICE LIST ON PARTS OF PLANES

STANLEY BLOCK PLANES

Nos.	Name of Part	No. of Plane	100 101	102 103	110	120	130	131	140	203	220
1	Single plane iron		.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Lever cap		$0.10	.20	.20	.20	.20	.20	.30	.20	.20
5	Lever cap screw		.....	.....	.....	.....	.....	.10	.10	.10	.10
6	Frog complete		.....	.....	.....	.30	.....	.20	.20	.20	.20
8	Adjusting nut		.....	.....	.....	.....	.....	.20	.20	.20	.20
12	Plane knob		.....	.....	.20	.20	.20	.30	.30	.30	.30
16	Plane bottom		.20	.40	.50	.60	.70	1.40	1.50	.50	.60
18	Detachable side		.....	.....	.....	.....	.....	.....	.50	.....	.....
19	Side screw, pair		.....	.....	.....	.....	.....	.....	.20	.....	.....

SCRAPER, CHAMFER AND CORE BOX PLANES

Nos.	Name of Part	No. of Plane	12 12½	12¼	112	212	85	56	57	72	64
1	Single plane iron		.45	.45	.45	.45	.45	.50	.60	.40	"
4	Lever cap		.50	.50	.40	.20	.40	.30	.30	.20	.30
5	Lever cap screw		.....	.....	.....	.....	.....	.10	.10	.10	.10
6	Frog complete		1.20	1.40	.70	.20	.60	.....	.....	.....	.....
8	Adjusting nut		.20	.20	.20	.....	.....	.....	.....	.....	.....
10	Frog screw		.....	.....	.....	.....	.10	.....	.....	.....	.....
11	Plane handle		1.00	1.00	.40	.....	.50	.40	.20	.60	.60
12	Plane knob		.....	.....	.30	.40	.40	.....	.20	.30	.20
13	Handle bolt and nut		.....	.....	.20	.....	.20	.....	.20	.20	.20
14	Knob, bolt and nut		.....	.....	.20	.....	.20	.....	.20	.20	.20
15	Plane handle screw		.10	.10	.....	.....	.....	.....	.....	.....	.....
16	Plane bottom		2.40	1.60	2.40	1.20	2.00	2.00	5.00	3.00	3.50
38	Extra wood bottom		.50	.....	.....	.....	.....	.....	.....	.....	.....

BED ROCK PLANES

Nos.	Name of Part	No. of Plane	602	603 ½c	604 ½c	604½ ½c	605 ½c	605½ ½c	606 ½c	607 ½c	608 ½c
3	Cap screw		$0.10)								
4	Lever cap		.60)								
5	Lever cap screw		.10)								
6	Frog complete		1.00)								
7	Y adjusting lever		.10)								
8	Adjusting nut		.20)	For all numbers							
9	Lateral adjusting lever		.20)								
11	Plane handle		.40)								
12	Plane knob		.30)								
13	Handle bolt and nut		.20)								
14	Knob bolt and nut		.20)								
15	Plane handle screw		.....	.....	.....	.10	.10	.10	.10	.10	.10
16	Plane bottom		2.20	2.50	2.50	3.00	3.00	3.20	4.40	6.20	7.00
44	Frog pin		.20	.20	.20	.20	.20	.20	.20	.20	.20
45	Frog clamping screw		.10	.10	.10	.10	.10	.10	.10	.10	.10
46	Frog adjusting screw		.10	.10	.10	.10	.10	.10	.10	.10	.10

Add 10 per cent for corrugated bottoms.

CARRIAGE, CIRCULAR, SCRUB, SHOOT AND FLOOR PLANES

Nos.	Name of Part	No. of Plane	10½ 10	10¼	11½ 11	113	20	40	40½	51	74
1A	Double plane iron		.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Single plane iron		.....	.....	.....	.....	.....	.40	.50	.....	.....
2	Plane iron cap		.35	.35	.45	.35	.35	.....	.....	.45	.50
3	Cap screw		.10	.10	.10	.10	.10	.....	.....	.10	.10
4	Lever cap		.50	.50	.50	.50	.50	.20	.20	.50	.60
5	Lever cap screw		.10	.10	.10	.10	.10	.10	.10	.10	.20
6	Frog complete		.70	.70	.70	.70	.70	.....	.....	.70	.....
7	Y adjusting lever		.10	.10	.10	.10	.10	.....	.....	.10	.....
8	Adjusting nut		.20	.20	.20	.20	.20	.....	.....	.20	.....
9	Lateral adjusting lever		.20	.20	.20	.20	.20	.....	.....	.20	.....
10	Frog screw		.10	.10	.10	.10	.10	.....	.....	.10	.....
11	Plane handle		.40	.60	.60	.....	.....	.20	.20	.40	2.00
12	Plane knob		.30	.60	.....	1.00	.....	.20	.20	.30	.....
13	Handle bolt and nut		.20	.20	.....	.....	.....	.20	.20	.20	.....
14	Knob bolt and nut		.20	.20	.....	.....	.....	.20	.20	.20	.....
16	Plane bottom		3.30	3.00	2.60	1.20	1.20	1.40	2.00	6.00	4.40
17	Top casting		.....	.....	.....	2.00	3.60	.....	.....	.....	.....
26	Frog seat		.....	.....	.....	.....	1.00	.....	.....	.....	.....
35	Bottom adjusting screw		.....	.....	.....	1.00	50	.....	.....	.....	.....
36	Bottom adjusting nut		.....	.....	.....	.....	.50	.....	.....	.....	.....

For irons for all planes, see page 138.

~~Solitto~~ POCKET KNIVES

~~Solitto~~ Pocket Knives are manufactured in one of the oldest and largest pocket cutlery factories in the United States. From years of operation and experience they are producing a knife which shows workmanship and finish.

OUR GUARANTEE

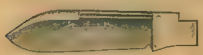
~~Solitto~~ Pocket Knives are made of **Highest Grade** English crucible steel, hand forged and tempered uniform.
They are made by skilled workmen.
And for quality, style and finish are unexcelled.
We do not warrant them not to wear out or break if they are abused.
They are not made for opening cans or drawing nails.
And should not be sharpened on a dry stone or honed flat.
Use a fine oil stone, and hold blade at an angle of 20 degrees in order to secure a chisel edge.
Oil the joints occasionally, as they are liable to wear rough and the blade points protrude.

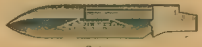
WARRANTY ADOPTED BY AMERICAN POCKET CUTLERY MANUFACTURERS

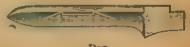
We warrant our Pocket Knives only against flaws in blades and springs. Knives that are much worn, or that have been reground by dealers or consumers, or that have more than one blade broken will not be subject to return or exchange.

For the convenience of our customers, we **stamp the number of the knife on the tang of the large blade** which avoids confusion of your stock. On the tang of the smaller blade we stamp "Oil the Joints," which brings to the attention of the user the necessity of oiling the joints, thereby prolonging the life of the knife.

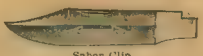
The following Illustrations show the different styles of blades that are furnished in ~~Solitto~~ brand pocket knives:


Spear


Saber


Pen

Clip

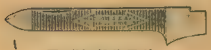

Saber Clip

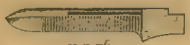
Spey

Sheep Foot

Budding

Pruning


Flexible Nail Knife


Nail File

Leather Punch

A combination screw driver and bottle opener

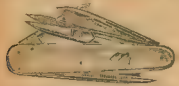
A combination screw driver, bottle opener and tack puller

A combination screw driver, bottle opener and Prest-o-lite tank key.

Can Opener

POCKET KNIVES

Two blades, scissors and French nail file, full crocus polished. Nickel silver lined. Length, 3¼ inches.
No. 4677—Pearl handle. Per dozen $90.00

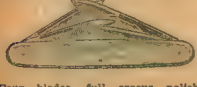


Two blades, scissors and French nail file, full crocus polished. Brass lined, milled edges. Length, 2¾ inches.
No. 4671—Pearl handle. Per dozen $95.00

Two blades and scissors, full crocus polished. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 3682—Pearl handle. Per dozen $72.00

Two blades and flexible nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 3688—Pearl handle. Per dozen $63.00

Two blades and flexible nail file, full crocus polished. Nickel silver cap and bolster. Brass lined, milled edges. Length, 3 inches.
No. 3687—Pearl handle. Per dozen $46.80

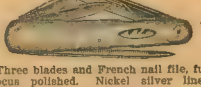


Four blades, full crocus polished. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 4690—Pearl handle. Per dozen $63.00

No. 4465
Three blades and French nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 4465—Genuine stag handle.
Per dozen $56.00
No. 4665—Pearl handle. Per dozen $72.00

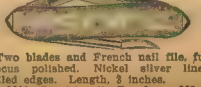
Four blades, full crocus polished Nickel silver lined, milled edges. Length, 3¼ inches.
No. 4677—Pearl handle. Per dozen $72.00

Four blades, full crocus polished Nickel silver lined, milled edges. Length, 3 inches.
No. 4689—Pearl handle. Per dozen $72.00
No. 4697—Japanese pearl handle. Fitted with shackle. Otherwise same as No. 4685.
Per dozen $72.00



Three blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 4664—Pearl handle. Per dozen $72.00

Two blades and French nail file, full crocus polished. Nickel silver lined. Length, 3¼ inches.
No. 3623—Pearl handle. Per dozen $63.00



Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 3601—Pearl handle. Per dozen $62.00

Two blades and French nail file, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3⅛ inches.
No. 3646—Pearl handle. Per dozen $68.00

Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Fitted with shackle. Length, 3⅜ inches.
No. 3663—Japanese pearl handle.
Per dozen $72.00

Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Fitted with shackle. Length, 2¾ inches.
No. 3699—Japanese pearl handle.
Per dozen $61.00

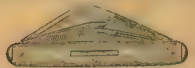
Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2¾ inches.
No. 3642—Japanese pearl handle.
Per dozen $63.00

Two blades and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2¾ inches.
No. 3695—Pearl handle. Per dozen $63.00

Average weight, 1½ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Two blades and nail file, full crocus polished. Nickel silver tips. Brass lined. Length, 3¼ inches.
No. 3657—Pearl handle. Per dozen $58.00



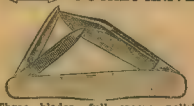
Four blades, full crocus polished. Nickel silver tips. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 4672—Pearl handle. Per dozen $68.00
No. 4472—English patent stag handle.
Per dozen $40.00

Four blades, full crocus polished Nickel silver tips. Milled edges. Length. 3 inches.
No. 4657—Pearl handle, nickel silver lined.
Per dozen $56.00
No. 4402—Genuine stag handle, brass lined
Per dozen $40.00

Three blades, full crocus polished Nickel silver lined, milled edges. Length. 3 inches.
No. 3622—Pearl handle. Per dozen $45.00

Three blades, full crocus polished. Brass lined. Length. 3¼ inches.
No. 3604—Pearl handle. Per dozen $54.00

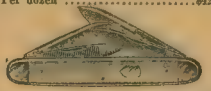
Four blades, full crocus polished. Nickel silver lined. Length, 3¼ inches.
No. 4608—Japanese pearl handle.
Per dozen $62.00



Three blades, full crocus polished Nickel silver lined. Length, 3 inches.
No. 3698—Japanese pearl handle.
Per dozen $61.00

Four blades, full crocus polished. Nickel silver lined. Length, 2⅞ inches.
No. 4698—Japanese pearl handle.
Per dozen $45.00

Three blades, full crocus polished Nickel silver lined. Fitted with shackle. Length, 2¾ inches.
No. 3624—Japanese pearl handle.
Per dozen $42.00



Four blades, full crocus polished Nickel silver cap and bolster. Brass lined, engraved edges. Length, 3¼ inches.
No. 4660—Pearl handle. Per dozen $56.00

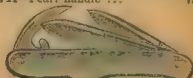
Three blades, full crocus polished Nickel silver lined, milled edges. Length 3¼ inches.
No. 344—Genuine stag handle.
Per dozen $40.00

Two blades and manicure file, full crocus polished. Nickel silver lined. Milled edges. Length. 3¼ inches.
No. 342—Genuine stag handle.
Per dozen $40.00

Two blades, full crocus polished, can opener, a combination screw driver and tack puller blade, reamer and corkscrew. Nickel silver cap and bolster. Nickel silver lined. Length. 3¾ inches.
No. 648—Genuine stag handle. Doz $72.00
No. 668—Pearl handle. Per dozen $90.00

Two blades and wire hook, full crocus polished and corkscrew. Nickel silver cap and bolster. Nickel silver lined. Length, 3 inches.
No. 349—Genuine stag handle.
Per dozen $60.00

Two blades, corkscrew and wire hook, full crocus polished. Nickel silver cap and bolster. Nickel silver lined. Length, 3¼ inches.
No. 16—Stag handle....Per dozen $56.00
No. 14—Pearl handle ... " 72.00

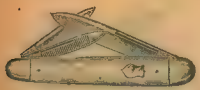


Two blades, corkscrew, hook and bottle cap lifter, polished. Length, 3¼ inches.
No. 100—Nickel silver handle. Doz $45.00

Three blades, full crocus polished. Nickel silver cap and bolster. Nickel silver lined. Length. 3¼ inches.
No. 3084—Pearl handle Per dozen $60.00
No. 3484—Genuine stag handle.
Per dozen $36.00

Average weight, 1¼ lbs per dozen. One-half dozen in a box.

POCKET KNIVES



Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 3621—Pearl handle. Per dozen $42.00

Four blades, full crocus polished. Brass lined. Length, 2⅞ inches.
No. 4061—Pearl handle. Per dozen $40.00

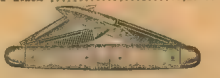
Four blades, full crocus polished. Nickel silver tips. Nickel silver lined, engraved milled edges. Length, 2⅞ inches.
No. 4062—Pearl handle. Per dozen $48.00

Two blades, glove buttoner and French nail file, full crocus polished. Nickel silver tips. Brass lined. Length, 2¾ inches.
No. 4075—Pearl handle. Per dozen $48.00

Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 3605—Pearl handle. Per dozen $42.00

Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅛ inches.
No. 3617—Pearl handle. Per dozen $46.00

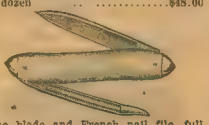
Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3456—Stag handle . . Per dozen $27.00
No. 3650—Pearl handle. . " 46.00
No. 3556—Iris pearl handle.
Per dozen $28.00



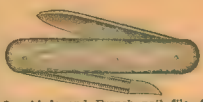
Three blades, full crocus polished. Nickel silver bands, cap and bolster. Brass lined. Length, 3½ inches.
No. 3609—Pearl handle. Per dozen $46.00

Three blades, full crocus polished. Brass lined, milled edges. Length, 2¾ inches.
No. 3664—Pearl handle. Per dozen $37.00

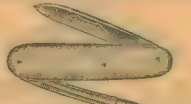
One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 2001—Pearl handle. Nickel silver tips.
Per dozen $48.00
No. 2401—Genuine stag handle. Nickel silver tips.
Per dozen $27.00
No. 2601—Iris pearl handle. Nickel silver tips.
Per dozen $25 00
No. 2600—Pearl handle. Without tips
Per dozen $48.00



One blade and French nail file, full crocus polished. Brass lined. Nickel silver tips. Length, 2⅝ inches.
No. 2500—Japanese pearl handle.
Per dozen $36 00



One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 2⅞ inches.
No. 2609—Pearl handle. Per dozen $40.00



One blade and French nail file, full crocus polished. Nickel silver lined, milled edges. Length, 3 inches.
No. 2002—Pearl handle Per dozen $46.00

Three blades, full crocus polished. Nickel silver tips. Brass lined. Length, 3 inches.
No. 3667—Pearl handle. Per dozen $47.00
No. 3467—English patent stag handle.
Per dozen $25.00

Three blades, full crocus polished. Nickel silver tips. Nickel silver lined. Plain edges. Length, 3½ inches.
No. 3468—English patent stag handle.
Per dozen $28.00
No. 3568—Iris pearl handle.
Per dozen $27.00
No. 3668—Pearl handle. Per dozen $52.00

Three blades. Crocus polished. Nickel silver tips. Brass lined. Length, 3⅝ inches.
No. 3090—Pearl handle. Per dozen $56.00
No. 3590—Iris pearl handle.
Per dozen $28 00
No. 3490—Genuine stag handle.
Per dozen $27.00
No. 3281—Celluloid imitation buffalo horn handle.
Per dozen $28.00

Average weight, 1½ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Three blades, half crocus polished. Brass lined. Length, 3⅝ inches.
No. 3680—Pearl handle..Per dozen $56.00

Two blades, half crocus polished. Brass lined. Nickel silver tips. Fitted with shackle. Length, 3¼ inches.
No. 2551—Fancy mottled celluloid handle .....Per dozen $19.00

Two blades, crocus polished. Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2491—Stag handle..Per dozen $23.00
No. 2094—Pearl handle.. " 50.00

Two blades, full crocus polished. Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2410—Genuine stag handle Doz $18.00

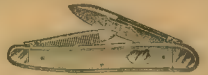
Two blades, half crocus polished Nickel silver tips. Brass lined. Length, 2⅜ inches.
No. 2681—Pearl handle..Per dozen $48 00
No. 2481—Stag handle... " 18.00
No. 2581—Green celluloid handle.
Per dozen $18.00
No. 2981—White celluloid handle.
Per dozen $18.00

Two blades, full crocus polished Nickel silver tips. Nickel silver lined. Length, 3¼ inches.
No. 2409—Genuine stag handle Doz $20.00

Two blades, crocus polished. Nickel silver cap and bolster. Length, 3¼ inches.
No. 2412—Genuine stag handle Doz $20.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches.
No. 2413—Genuine stag handle.
Per dozen $21.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2453—Stag handle..Per dozen $18.00



Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 2685—Pearl handle.Per dozen $36.00
No. 2485—English patent stag handle.
Per dozen $19.00
No. 2585—Green celluloid handle.
Per dozen $18.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 265—Pearl handle. .Per dozen $34.00

Two blades, full crocus polished Nickel silver tips. Brass lined. Length, 3 inches.
No. 264—Pearl handle..Per dozen $48.00

Two blades, full crocus polished. Brass lined. Length, 2⅞ inches.
No. 2686—Pearl handle.Per dozen $40 00

Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 2698—Pearl handle.Per dozen $39.00
No. 2598—Iris pearl with black stripe.
Per dozen $20.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 242—Stag handle..Per dozen $18.00
No. 252—Iris pearl handle.
Per dozen $19.00
No. 262—Pearl handle..Per dozen $40.00

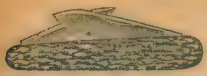
Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅞ inches.
No. 2495—Stag handle..Per dozen $19.00
No. 2595—Mottled celluloid handle.
Per dozen $19 00
No. 2695—Pearl handle.Per dozen $28.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 2497—English patent stag handle.
Per dozen $16.00
No. 2697—Pearl handle..Per dozen $34.00
No. 2897—Ivory handle.. " 19.00
No. 2597—Celluloid imitation buffalo horn handle. Fitted with spear blade and nail file.
Per dozen $19.00
No. 2797—Green mottled celluloid handle. Otherwise as No. 2497.
Per dozen $18.00

Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3 inches.
No. 2466—Stag handle..Per dozen $18.00

Average weight, 1 lb per dozen. One-half dozen in a box.

POCKET KNIVES



Two blades, half crocus polished. Brass lined. Length, 2¾ inches.
No. 2480—Stag handle..Per dozen $15.00

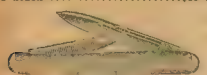
No. 2680—Iris pearl handle.
Per dozen $17.00

No. 2680—Pearl handle.Per dozen $48.00

No. 2780—Buffalo horn handle.
Per dozen $16.00

No. 2880—White celluloid handle.
Per dozen $16.00

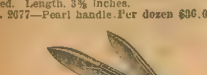
No. 2579—Green celluloid handle.
Per dozen $16.00



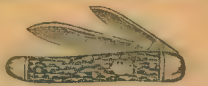
Two blades, full crocus polished Brass lined. Length, 3 inches.
No. 2563—Iris pearl handle.
Per dozen $19.00

Two blades, half crocus polished. Brass lined. Length, 3¼ inches.
No. 2412—White mottled celluloid handle, black cap and bolster
Per dozen $17.00

Two blades, full crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅜ inches.
No. 2077—Pearl handle.Per dozen $36.00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 2¾ inches.
No. 2672—Pearl handle.Per dozen $32.00

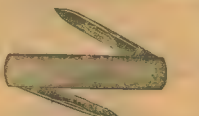


Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 249—Stag handle...Per dozen $19.00

No. 259—Fancy mottled celluloid handle.
Per dozen $21.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2474—Stag handle..Per dozen $17.00
No. 2674—Pearl handle.. " $4.00

Two blades, full crocus polished Nickel silver cap and bolster. Brass lined. Length, 2¾ inches.
No. 2675—Pearl handle.Per dozen $30.00



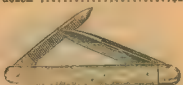
Two blades, crocus polished. Brass lined. Length, 2½ inches.
No. 256—Iris pearl handle.
Per dozen $18.00

Three blades, full crocus polished. Nickel silver tips. Brass lined. Length, 2⅝ inches.
No. 3672 Pearl handle Per dozen $38.00

Two blades, full crocus polished. Brass lined. Length, 2⅝ inches.
No. 2018—Pearl handle.Per dozen $30.00

Two blades, full crocus polished. Nickel silver tips. Brass lined. Length, 2¾ inches.
No. 2682—Pearl handle.Per dozen $30.00

No. 2682—Iris pearl handle.
Per dozen $17.00



Two blades, full crocus polished. Nickel silver bolster. Brass lined. Length, 2⅝ inches.
No. 2692—Pearl handle.Per dozen $24.00

Two blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅝ inches.
No. 2693—Pearl handle.Per dozen $27.00

Two blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅝ inches.
No. 2690—Pearl handle..Per dozen $27.00
No. 2490—Stag handle... " 16.00
No. 2590—Iris pearl handle..Doz $17.00
No. 2890—White celluloid handle.
Per dozen $17.00

Corn knife, one blade, polished. Brass lined. Length, 3¼ inches.
No. 1817—White grained celluloid handle .....Per dozen $14.00

Average weight, 1¼ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Two blades, half polished, combination screw driver and tack puller blade, can opener, corkscrew and reamer. Brass lined. Nickel silver rivets. Length, 3¾ inches.
No. 4943—Fibre handle. Per dozen $72.00

One blade, half polished, a combination screw driver and bottle opener blade, can opener and a patent leather punch. Brass lined. Nickel silver rivets. Length, 3½ inches.
No. 4510—White mottled celluloid handle with black cap and bolster.
Per dozen $42.00
No. 4945—Fibre handle. Per dozen $29.00

Spear blade, a combination screw driver and bottle opener blade, can opener and a patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3½ inches.
No. 4451—Genuine stag handle.
Per dozen $32.00

One blade, half polished, a combination screw driver and bottle opener blade can opener and a patent leather punch Brass lined. Carries emblem of Boy Scout in gilt. Nickel silver rivets. Length, 3¾ inches.
No. 4512—White mottled celluloid handle with black cap and bolster.
Per dozen $38.00

Four blades. Brass lined. Fitted with one large spear blade, one combination screw driver and bottle opener blade, one patent leather punch and can opener and chain. Half polished. Nickel silver cap, bolster and shield. Length, 3¾ inches.

No. 4400—Stag handle. Per dozen $53.00

One blade, half crocus polished, a combination screw driver and bottle opener blade, can opener and a patent leather punch. Nickel silver cap and bolster Brass lined. Length, 3¼ inches.

No. 4450—Stag handle. Per dozen $33.00

Three blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Nickel silver lined. Length, 3⅞ inches.

No. 4470—Genuine stag handle.

Per dozen $36.00

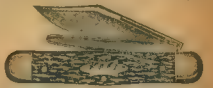
No. 4670—Pearl handle. Per dozen $68.00

Two blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 4 inches.

No. 3477—Stag handle. Per dozen $31.00

Spear blade, clip blade and leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3⅝ inches.
No. 3444—Stag handle. Per dozen $30.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 278—Buffalo horn handle. Doz $22.00
No. 358—Mottled celluloid handle, as No. 278, with nail file. Per dozen $20.00
No. 3685—Pearl handle, as No. 358.
Per dozen $48.00



One blade and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3½ inches.
No. 2455—Stag handle. Per dozen $18.00

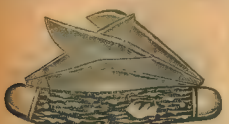
Two blades and patent leather punch, half polished. Nickel silver cap, bolster and shield. Brass lined. Length, 3⅝ inches.
No. 3426—Stag handle. Per dozen $33.00

One blade and patent leather punch, half polished. Nickel silver bolster and shield. Brass lined. Length, 3½ inches.
No. 2144—Cocobolo handle. Dozen $16.00

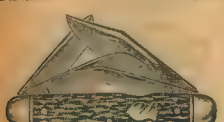
Average weight, 1½ lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Three blades, full crocus polished. Nickel silver cap and bolster. Nickel silver lined. Length, 3¼ inches.
No. 368—Pearl handle..Per dozen $48.00
No. 348—Genuine stag handle.
Per dozen $36.00



Five blades, half crocus polished Nickel silver cap, bolster and shield. Brass lined. Length, 3⅞ inches.
No. 5445—Genuine stag handle.
Per dozen $48.00



Four blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 4452—Large clip and sheepfoot blades. Stag handle.
Per dozen $32.00

Three blades, full crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4¼ inches.
No. 3449—Genuine stag handle.
Per dozen $36.00
No. 3049—Pearl handle.Per dozen $75.00
No. 3459—Genuine stag handle. Has clip instead of sheepfoot blade.
Per dozen $36.00

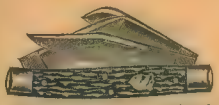
Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4¼ inches.
No. 3451—English patent stag handle.
Per dozen $32.00

Three blades, half crocus polished Nickel silver cap, bolster and shield Brass lined. Length, 3¾ inches.
No. 3411—Genuine stag handle.
Per dozen $34.00

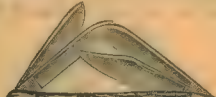
Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3448—Genuine stag handle Doz $32.00

Three blades, full crocus polished Nickel silver cap and bolster. Nickel silver lined. Milled edges. Length, 4 inches
No. 347—Genuine stag handle. Doz $36.00
No. 345—Similar to No. 347, with punch blade in place of sheepfoot. Punch, clip and speying blade. Polished..Doz $36.00
No. 3474—Stag handle..Per dozen $32.00
No. 341—Similar to No. 3474, but with punch blade in place of sheepfoot. Punch clip and speying blade.Per dozen $32.00
No. 346—Similar to No. 3474..Doz $32.00
No. 3074—Pearl handle.Per dozen $63.00
No. 361—Similar to No. 3674, with punch blade in place of sheepfoot. Punch clip and speying blade.Per dozen $68.00
No. 3574—Celluloid imitation buffalo horn handle .....Per dozen $33.00
No. 356—Olive green celluloid handle.
Per dozen $32.00
No. 351—Similar to No. 3574, with punch blade in place of sheepfoot. Punch, clip and speying blade.Per dozen $33.00

Average weight, 3 lbs per dozen. One-half dozen in a box.

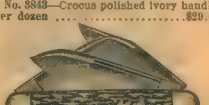


Premium stock. Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 3475—Stag handle..Per dozen $30.00
No. 3675—Pearl handle.. " 63.00
No. 3485—Genuine stag handle.
Per dozen $32.00
No. 3775—Buffalo horn handle.
Per dozen $30.00



Four blades, full crocus polished. Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3⅞ inches.
No. 4476—English patent stag handle.
Per dozen $34.00

Three blades. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3441—Half crocus polished stag handle.
Per dozen $29.00
No. 3741—Half crocus polished buffalo horn handle.
Per dozen $29.00
No. 3541—Half crocus polished mottled green celluloid handle.
Per dozen $30.00
No. 3643—Crocus polished pearl handle.
Per dozen $58.00
No. 3843—Crocus polished ivory handle.
Per dozen $29.00



Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3440—Stag handle..Per dozen $28.00
No. 3740—Buffalo horn.. " 29.00

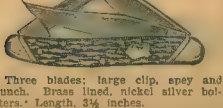
POCKET KNIVES

Three blades, half crocus polished Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3¾ inches.
No. 3483—Genuine stag handle.
Per dozen $32 00
No. 3583—Fancy striped celluloid handle .....Per dozen $30.00
No. 3783—Mottled celluloid handle.
Per dozen $30.00

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3402—Stag handle..Per dozen $32.00

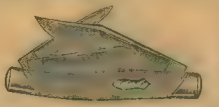
Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3452—English patent stag handle.
Per dozen $28.00

Three blades; large spear, spey and pen. Brass lined, nickel silver bolsters. Length, 3¾ inches.
No. 3515—Buffalo horn pyralin handle
Per dozen $30.00



Three blades; large clip, spey and punch. Brass lined, nickel silver bolsters. Length, 3½ inches.
No. 3409—Stag handle Per dozen $27 00
No. 3509—Abalonion pearl pyralin handle .....Per dozen $27.00

Three blades; large clip, spey and pen. Brass lined, nickel silver bolsters. Length, 3¾ inches.
No. 3510—Abalonion pearl pyralin handle.
Per dozen $30.00
No. 3512—Pearl ivory handle.
Per dozen $30.00

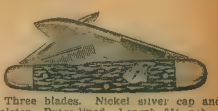


Three blades; large clip, spey and punch. Brass lined, nickel silver bolsters. Length, 3¾ inches.
No. 3516—Shell pyralin handle.
Per dozen $28.00

Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3491—Stag handle..Per dozen $30 00
No. 3291—Ebony handle. " 30.00

Spring back. Three blades, crocus polished. Nickel silver cap and bolster. Nickel silver lined, milled edges. Length 3¾ inches.
No. 3403—Stag handle..Per dozen $45.00

Three blades, half crocus polished. Nickel silver cap, bolster and shield. Brass lined. Length, 4½ inches.
No. 3418—Genuine stag handle.
Per dozen $45 00



Three blades. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3553—Crocus polished, pearl handle.
Per dozen $32.00
No. 3454—Half crocus polished, English patent stag handle.....Per dozen $28.00
No. 3554—Half crocus polished, celluloid handle.....Per dozen $29.00

Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4 inches.
No. 3455—English patent stag handle.
Per dozen $32.00

Three blades, crocus polished. Nickel silver cap and bolster. Brass lined.
No. 3414—Length, 3¾ inches. Stag handle .....Per dozen $28.00
No. 3614—Length, 3¾ inches. Pearl handle .....Per dozen $31.00
No. 3514—Length, 3¾ inches. Celluloid, imitation buffalo horn handle.
Per dozen $27 00
No. 3413—Length, 3¾ inches. Stag handle .....Per dozen $30.00

Three blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3415—Stag handle..Per dozen $29.00
No. 3715—Buffalo horn handle.
Per dozen $30.00

Three blades, crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3406—Stag handle..Per dozen $27 00
No. 7636—Pearl handle.. " 51.00

Average weight, 3 lbs per dozen. One-half dozen in a box.

POCKET KNIVES

Three blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3425—Stag handle..Per dozen $32.00
No. 3726—Buffalo horn handle.
Per dozen $32.00
No. 3625—Pearl handle.Per dozen $48.00

Four blades, full crocus polished Nickel silver cap and bolster. Nickel silver lined, milled edges. Length, 3¼ inches.
No. 1406—Genuine stag handle.
Per dozen $33.00

Premium stock. Three blades, crocus polished. Nickel silver cap and bolster Brass lined Length, 3¾ inches.
No. 3407—Stag handle..Per dozen $27.00
No. 3507—Celluloid imitation handle.
Per dozen $27.00
No. 3607—Pearl handle.Per dozen $52.00
No. 3707—Buffalo horn handle.
Per dozen $28.00
No. 3508—Green mottled celluloid handle .. ..Per dozen $27.00

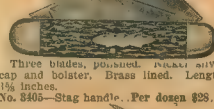
Three blades. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3403—Genuine stag handle, half crocus polished.....Per dozen $30.00
No. 3494—Stag handle, polished.
Per dozen $28.00

Three blades, polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3460—Stag handle..Per dozen $27.00

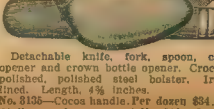
Three blades Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 3438—Polished, stag handle.
Per dozen $27.00
No. 3638—Full crocus polished, pearl handle .....Per dozen $50.00
No. 3538—Half crocus polished, fancy gold colored celluloid handle.Doz $30.00

Three blades, polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 3408—English patent stag handle.
Per dozen $32.00

Three blades, polished. Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 3404—Stag handle..Per dozen $27.00



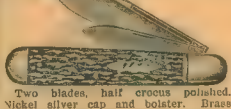
Three blades, polished. Nickel silver cap and bolster. Brass lined. Length, 1⅞ inches.
No. 3405—Stag handle..Per dozen $28.00



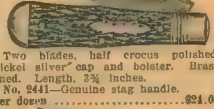
Detachable knife, fork, spoon, can opener and crown bottle opener. Crocus polished, polished steel bolster. Iron lined. Length, 4⅜ inches.
No. 3135—Cocoa handle.Per dozen $34.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4¼ inches.
No. 2456—Stag handle..Per dozen $28.00

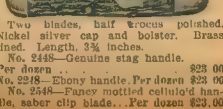
Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2445—Genuine stag handle.
Per dozen $27.00



Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4¼ inches.
No. 245—Stag handle...Per dozen $27.00



Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2441—Genuine stag handle.
Per dozen $24.00

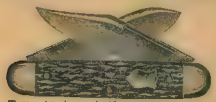


Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2448—Genuine stag handle.
Per dozen $23 00
No. 2248—Ebony handle.Per dozen $23 00
No. 2548—Fancy mottled celluloid handle, saber clip blade...Per dozen $23.00

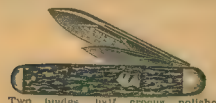
Average weight, 2½ lbs per dozen, except No. 246. One-half dozen in a box.

POCKET KNIVES

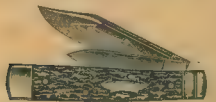
Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2459—Clip blade. Stag handle.
Per dozen $20.00
No. 2458—Spear blade. Stag handle.
Per dozen $20 00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2477—Stag handle..Per dozen $20.00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2467—Stag handle..Per dozen $18.00



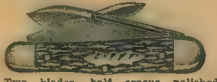
Two blades, half crocus polished. Nickel silver cap. Polished steel bolster. Brass lined. Length, 3⅝ inches.
No. 2468—Stag handle..Per dozen $18.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 4¼ inches.
No. 240—Stag handle. Weight, 4½ lbs.
Per dozen $40 00

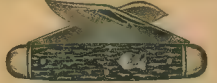
Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 2475—Stag handle..Per dozen $23.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅞ inches.
No. 2405—Stag handle..Per dozen $24.00
No. 2505—Striped celluloid handle.
Per dozen $20.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3½ inches.
No. 2411—Stag handle. Per dozen $20.00

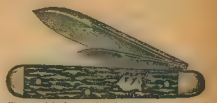


Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2457—Stag handle..Per dozen $21.00
No. 2257—Ebony handle. " 21.00



Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3⅝ inches.
No. 2488—Stag handle..Per dozen $21.00

Two blades, polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2478—Stag handle..Per dozen $18 00
No. 2178—Cocoa handle. " 18.00
Two blades. Steel lined; steel bolster and cap.
No. 2050—Stag handle..Per dozen $15 00

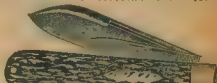


Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2468—Stag handle..Per dozen $17 00
Two blades. Steel lined; steel bolster and cap.
No. 2005—Stag handle..Per dozen $15.00

Easy opener. Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2464—Stag handle..Per dozen $20.00
No. 2164—Cocoa handle. " " 20.00
No. 2064—Brass handle.. " " 19.00
Easy opener. Steel lined; steel bolster and cap.
No. 2090—Ebony handle.Per dozen $17.00

Easy opener. Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¾ inches.
No. 2476—Stag handle..Per dozen $16.50
No. 2176—Cocoa handle. " 16.50

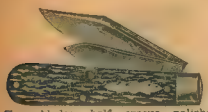
Easy opener. Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3 inches.
No. 2576—Celluloid imitation buffalo horn handle .....Per dozen $17.00



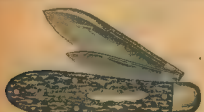
Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 4¼ inches.
No. 2452—Stag handle..Per dozen $22 00
No. 2252—Ebony handle. " 23.00

Average weight, 2½ lbs per dozen. One-half dozen in a box.

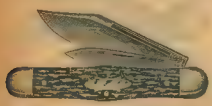
POCKET KNIVES



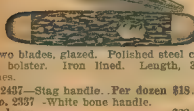
Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3¾ inches.
No. 2450—Stag handle..Per dozen $19.00
No. 2350—White bone handle.
Per dozen $20.00



Two blades, half crocus polished. Nickel silver bolster. Brass lined. Length, 3¾ inches.
No. 2449—Genuine stag handle.
Per dozen $20.00
No. 2549—Striped celluloid handle.
Per dozen $18.00
No. 2749—Celluloid imitation buffalo horn handle.
Per dozen $18.00
Two blades. Steel lined; steel bolster.
No. 2010—Ebony handle..Per dozen $15.00

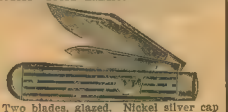


Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2456—Stag handle..Per dozen $19.00
No. 2156—Cocoa handle. " 19.00
No. 2356—White bone handle.
Per dozen $20.00



Two blades, glazed. Polished steel cap and bolster. Iron lined. Length, 3⅝ inches.
No. 2437—Stag handle..Per dozen $18.00
No. 2357—White bone handle.
Per dozen $22.00
No. 2137—Cocoa handle.Per dozen $18.00
Two blades. Steel bolster and cap; steel lined.
No. 2065—Stag handle..Per dozen $15.00

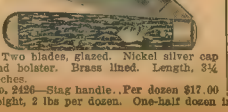
Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2484—Stag handle..Per dozen $18.00
No. 2184—Cocoa handle. " 18.00
No. 2384—Iris pearl celluloid handle.
Per dozen $19.00
Two blades. Steel lined; steel bolster and cap.
No. 2070—Stag handle..Per dozen $15.00
No. 2035—Cocoa handle. " 15.00



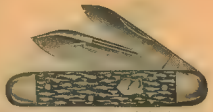
Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2546—Fancy striped celluloid handle .....Per dozen $18.00
No. 2446—Stag handle, as No. 2546, spear blade .....Per dozen $17.00

Two blades, half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2423—Stag handle..Per dozen $16.00
Two blades. Steel lined; steel bolster and cap.
No. 2075—Stag handle..Per dozen $15.00

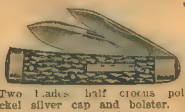
Two blades, glazed. Nickel silver cap and bolster. Brass lined. Lgth, 3¼-inch.
No. 2427—Stag handle..Per dozen $16.00



Two blades, glazed. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches.
No. 2426—Stag handle..Per dozen $17.00

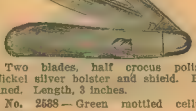


Two blades, glazed. Nickel silver cap and bolster. Brass lined. Length, 3¼ inches
No. 2425—Stag handle..Per dozen $15.00
Two blades. Steel lined; steel bolster and cap.
No. 2045—Stag handle..Per dozen $15.00



Two blades. Half crocus polished. Nickel silver cap and bolster. Brass lined. Length, 2⅞ inches.
No. 2429—Stag handle..Per dozen $17.00
No. 2529—Green mottled celluloid handle.
Per dozen $18.00

Two blades, half crocus polished Nickel silver cap and bolster. Brass lined. Length, 3 inches.
No. 2711—Buffalo horn handle.
Per dozen $19.00
No. 2511—Celluloid imitation buffalo horn handle.
Per dozen $19.00
No. 2647—Fancy mottled celluloid handle.
Per dozen $19.00
No. 2544—Green mottled celluloid handle.
Per dozen $19.00



Two blades, half crocus polished Nickel silver bolster and shield. Brass lined. Length, 3 inches.
No. 2688—Green mottled celluloid handle.
Per dozen $17.00
No. 2554—Fancy mottled celluloid handle.
Per dozen $17.00

Average weight, 2 lbs per dozen. One-half dozen in a box.

UNIVERSAL CUTLERY DISPLAY CASE

Side View

Front View

The sale of cutlery is perhaps more dependent upon attractive display than almost any line carried by the merchant. Attractive show cases, in turn, give the store a bright appearance which enhances the general effect and of course contributes to the sales.

The outside Universal Cutlery Case calls attention to a selected list of cutlery items in a different way from the usual display case. They stand up and intercept the eye. They cannot be overlooked.

Means are provided for securing all kinds of cutlery effectively with number and price to attract the attention of the prospective customer.

No. 1—Plate glass front and sides. Nickel plated top and base oak trimmings. Green plush removable boards. Height, 33½ inches; width of back, 8¾ inches; outside depth, 8 inches. Shipping weight, 30 lbs.

Each **$15.00**

UNIVERSAL POCKET KNIVES

No. 78827—3¼-inch Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Nickel silver tips and shield. Knurled.
Per dozen $63.00

No. 73209—2¾-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $59.00

No. 73602—3¼-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $54.00

No. 06327—3¼-inch Perfected Stag Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Nickel silver tips. Knurled.
Per dozen $36.00

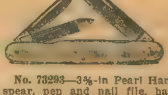
No. 06446—3¼-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Nickel silver tips. Nickel silver lined.
Per dozen $36.00

No. 74270—3¼-in Pearl Handle. Large spear, two pens and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $54.00

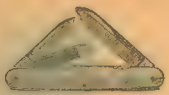
No. 74212—3¼-in Pearl Handle. Large spear, two pens and nail file, polished. Nickel silver lined. Knurled.
Per dozen $59.00

No. 73277—3¼-in Pearl Handle. Large spear, pen and flexible file, full polished. Nickel silver lined. Nickel silver tips and shield. Knurled.
Per dozen $54.00

No. 73183—3⅝-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $45.00



No. 73293—3⅝-in Pearl Handles. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $54.00



No. 73212—3¼-in Pearl Handle. Large spear, pen and nail file, full polished. Nickel silver lined. Knurled.
Per dozen $54.00

No. 7325—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Knurled.
Per dozen $46.00

No. 73276—3¼-inch Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Nickel silver tips.
Per dozen $45.00

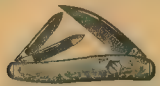
No. 73336—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $41.00

No. 73633—3¼-in Pearl Handle. Large spear, pen and nail file, half polished. Nickel silver lined. Nickel silver bolsters and shield.
Per dozen $45.00

Average weight per dozen, 1¼ lbs. One-half dozen in a box.

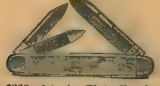
UNIVERSAL POCKET KNIVES

No. 73144—3¼-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters.
Per dozen $45.00



No. 73490—3-inch Pearl Handle. Large Wharncliffe pen and nail file, half polished. Brass lined. Nickel silver tips, without shield.
Per dozen $40.00

No. 7361—3-inch Pearl Handle. Large spear, pen and nail file, half polished Brass lined. Nickel silver bolsters.
Per dozen $36.00



No. 7327—3-inch Flat Pearl Handle Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters
Per dozen $30.00

No. 73149—3-inch Pearl Handle. Large spear, pen and nail file, half polished. Brass lined.
Per dozen $40.00

No. 73134—2¾-in Pearl Handle. Large spear, pen and nail file, half polished. Brass lined.
Per dozen $34.00

No. 0496 — 3½-inch Perfected Stag Handle. Large spear, two pens and nail file, half polished. Nickel silver bolsters. Brass lined.
Per dozen $27.00

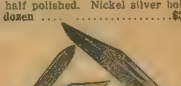
No. 04276—3¼-inch Perfected Stag Handle. Large spear, two pens and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $27.00

No. 0110—3¼-inch Perfected Stag Handle. Large sheep foot, two pens and nail file. Brass lined. High color.
Per dozen $25.00

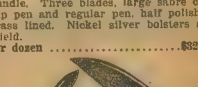
No. 03953¾—4-in Perfected Stag Handle Large clip and two pens, half polished Brass lined. Nickel silver bolsters and shield.
Per dozen $30.00

No. 0395—4-inch Perfected Stag Handle. Large spear and two pens. Half polished blades. Brass lined. Nickel silver bolsters and shield.
Per dozen $30.00

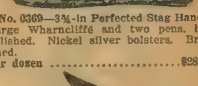
No. 03670—3¾-inch Perfected Stag Handle. Large sabre clip, small clip and pen, half polished. Nickel silver bolster.
Per dozen $32.00



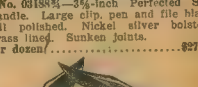
No. 43670—3¾-inch Buffalo Ivoroy Handle. Three blades, large sabre clip, clip pen and regular pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $32.00



No. 0369—3¾-in Perfected Stag Handle. Large Wharncliffe and two pens, half polished. Nickel silver bolsters. Brass lined.
Per dozen $28.00



No. 03188¾—3¾-inch Perfected Stag Handle. Large clip, pen and file blade, full polished. Nickel silver bolsters. Brass lined. Sunken joints.
Per dozen $27.00



No. 43043¾—3¾-inch Buffalo Ivoroy Handle. Large sabre clip, clip pen and spear pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $27.00

Average weight per dozen, 1½ lbs. One-half dozen in a box

UNIVERSAL POCKET KNIVES

No. 03191—3⅝-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

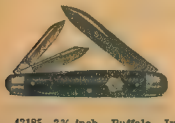
Per dozen $25.00

No. 03186¾—3⅝-inch Perfected Stag Handle. Large clip, pen and nail file, half polished blades. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03185—3¾-inch Perfected Stag Handle. Three blades, large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $26.00



No. 43185—3¾-inch Buffalo Ivoroy Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03035¾—3½-inch Perfected Stag Handle. Large clip, sheep foot and pen half polished. Nickel silver bolsters. Brass lined.

Per dozen $25.00

No. 03029—3⅝-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03270—3½-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver tips and shield.

Per dozen $24.00

No. 03188—3⅝-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters. Sunken joints.

Per dozen $27.00

No. 03425—3-in Perfected Stag Handle. Three blades, large spear, pen and nail file, half polished. Brass lined. Nickel silver tips.

Per dozen $23.00

No. 0388—3⅝-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters and shields.

Per dozen $25.00

No. 03144—3¼-inch Perfected Stag Handle. Large spear, pen and nail file. Half polished. Brass lined. Nickel silver bolsters and shields.

Per dozen $25.00

No. 0361—3-inch Perfected Stag Handle. Large spear, pen and nail file, half polished. Brass lined. Nickel silver bolsters.

Per dozen $23.00

No. 03108—3⅜-inch Perfected Stag Handle. Large spear, pen and nail file. Nickel silver tips and shield.

Per dozen $23.00

No. 03031—3¼-inch Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

No. 03337—3-in Perfected Stag Handle. Large spear and two pens, half polished. Brass lined. Nickel silver bolsters

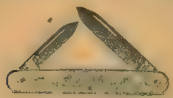
Per dozen $23.00

Average weight per dozen, 1½ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

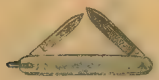
No. 72617—3-inch Pearl Handle. Large spear and nail file, half polished. Nickel silver lined. Nickel silver tips.
Per dozen $41.00

No. 82617—3-in Pearloid Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $23.00



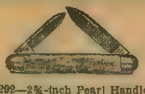
No. 72613—3¼-in Pearl Handle. Large spear and pen, full polished. Nickel silver lined. Knurled.
Per dozen $45.00

No. 02617—3-in Perfected Stag Handle. Large spear and nail file, half polished Brass lined. Nickel silver tips and shield.
Per dozen $28.00



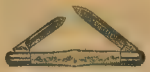
No. 72135—2¾-in Pearl Handle. Large spear and pen, half polished. Brass lined
With Shackle .....Per dozen $30.00

No. 72174—2¾-in Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver tips.
Per dozen $28.00



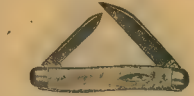
No. 7292—2¾-inch Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $25.00

No. 72129—2¼-in Pearl Handle. Large spear and pen, half polished. Brass lined
Per dozen $25.00



No. 7226—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $20.00

No. 72276—3¼-in Pearl Handle. Large spear and pen, half polished. Nickel silver tips. Without shield.
Per dozen $45.00



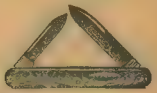
No. 72633—3¼-in Pearl Handle. Large Wharncliffe and pen, half polished. Nickel silver bolsters and shield.
Per dozen $36.00

No. 72144—3¼-in Pearl Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters.
Per dozen $36.00

No. 72336—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $34.00

No. 72337—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, without shield.
Per dozen $32.00

No. 82108—3⅛-inch Pearloid Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $18.00



No. 82311—3-inch Smoked Pearl Handle Large spear and pen, half polished. Brass lined.
Per dozen $14.00

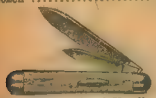
No 82129—2¼-inch Pearloid Handle. Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No. 12425—3-inch Nickel silver handles, spear and file blades, fine glazed finish, fist pattern.
With Shackle .....Per dozen $18.00

Average weight per dozen, 1¼ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 7220—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolster and cap.
Per dozen $34.00



No. 7250—3-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and caps. Without shield.
Per dozen $27.00

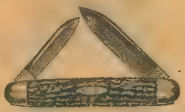
No. 7290—2¾-inch Pearl Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and caps.
Per dozen $25.00

No. 8250—3-in Pearloid Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $14.00

No. 82222—3¼-in Smoked Pearl Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shields.
Per dozen $17.00

No. 02185—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

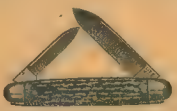
No. 42108—3⅜-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $18.00



No. 02191—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 02108—3⅜-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver tips.
Per dozen $17.00

No. 42191—3⅜-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00



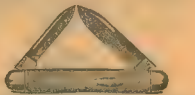
No. 02109—3⅜-inch Perfected Stag Handle. Large spear and pen. High color. Nickel silver bolsters. Brass lined.
Per dozen $16 90

No. 42633—3¼-inch Buffalo Ivoroy Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $19.00

No. 02490—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $17.00

No. 0261—3-inch Perfected Stag Handle. Nickel silver bolsters.
Per dozen $17.00

No. 42490—3-in Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $17.00

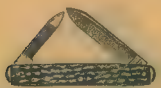


No. 52144—3¼-in White Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 42425—3-in Buffalo Ivoroy Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $17.00

Average weight per dozen, 1¼ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES



No. 02425—3-in Perfected Stag Handle. Large spear and nail file, half polished. Brass lined. Nickel silver tips.
Per dozen $17.00

No. 02107—3¾-inch Perfected Stag handle. Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No. 52107—3⅝in Ivoroy Handle. Large spear and pen, half polished. Brass lined.
Per dozen $15.00

No. 42276—3¼-inch Buffalo Ivoroy Handle. Large spear and pen, half polished Brass lined. Nickel silver tips and shield.
Per dozen $18.00

No. 02276—3¼-inch Perfected Stag handle.
Per dozen $18.00

No. 5261—3-inch White Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $17.00

No. 8261—3-inch Smoked Pearl Handle. Same as above.
Per dozen $17.00

No. 02337—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $17.00

No. 02311—3-in Perfected Stag Handle Large spear and pen, half polished. Brass lined.
Per dozen $14.00

No. 53216—3⅜-in White Ivoroy Handle. Large spear, large spey and clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $28.00

No. 03217—3⅜-inch Perfected Stag Handle. Three blades, large spey sheep foot and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $27.00

No. 03215⅝—3⅝ inch. Large sabre clip, spey and sheep foot, full polished. Sunk joints. Nickel silver bolsters and caps.
Per dozen $32.00

No. 43216—3⅜-inch Buffalo Ivoroy Handle. Large spear, large spey and clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $28.00

No. 03216—3⅜-inch Perfected Stag Handle. Three blades, large spear, spey and clip, half polished. Brass lined Nickel silver bolsters and shield.
Per dozen $27.00

No. 03382¾—3½-inch Perfected Stag handle. Large clip, sheep foot and pen, half polished. Brass lined.
Per dozen $25.00

Average weight per dozen, 1¾ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 73480—3¾-in Pearl Handle. Large clip, sheep foot and spey, half polished. Nickel silver lined. Knurled. Nickel silver bolsters and shield.

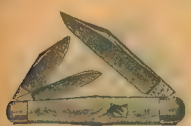
Per dozen $63.00

No. 73382—3¼-in Pearl Handle. Large spear, large sheep foot and pen. Half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $50.00

No. 83480—Smoked Pearl Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $30.00



No. 73494—3½-inch pearl handles. Large clip, small clip and pen blades, half polished. Brass lined. Nickel silver bolsters.

Per dozen $50.00

No. 04480—3⅞-inch Perfected Stag Handle. Large clip, sheep foot, spey and pen. Brass lined. Half polished. Nickel silver bolsters.

Per dozen $30.00

No. 0348014—3⅞-inch Perfected Stag Handle. Large slim spey, sheep foot and clip. Nickel silver bolsters. Brass lined.

Per dozen $29.00

No. 43480—3⅞-inch Buffalo Ivoroy Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolster and shield.

Per dozen $29.00

No. 03643—4-in Perfected Stag Handle. Three blades, large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $28.00

No. 43643—4-inch Buffalo Ivoroy Celluloid Handle. Large clip, sheep foot and spey, half polished. Nickel silver bolsters. Brass lined.

Per dozen $29.00

No. 03403—3½-inch Perfected Stag Handle. Large clip, spey and sheep foot, half polished. Brass lined. Nickel silver bolsters and shield.

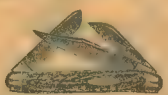
Per dozen $28.00

No. 03618—3¾-inch Perfected Stag Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $27.00

No. 43618—3¾-inch Buffalo Ivoroy Handle. Large clip, sheep foot and spey, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $27.00



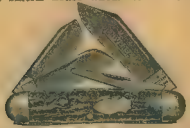
No. 03633¾—3¾-inch Perfected Stag Handle. Large clip, spey and sheep foot, half polished. Brass lined. Nickel silver bolsters and shield.

Per dozen $25.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 03662—3⅝-inch Perfected Stag Handle. Boy Scout knife. Large spear, punch blade, can opener and screw driver, half polished. Nickel silver bolsters and shield. Brass lined. Per doz $30.00



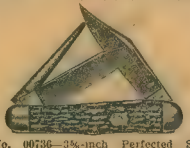
No. 00316—3⅝-inch Perfected Stag Handle. Large clip, sheep foot, spey and punch blade, half polished. Nickel silver bolsters. Brass lined. Per doz $30.00

No. 00215—3⅝-inch Perfected Stag Handle. Large spear, spey and punch blade, half polished. Nickel silver bolsters. Brass lined. Per dozen $32.00

No. 00643—4-in Perfected Stag Handle. Large clip, sheep foot and punch blade, half polished. Nickel silver bolsters. Brass lined. Per dozen $28.00

No. 00480—3¾-inch Perfected Stag Handle. Large clip, large spey and punch blade, half polished. Brass lined. Nickel silver bolsters and shield. Per dozen $29.00

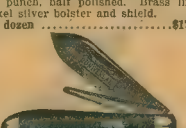
No. 00216—3⅝-inch Perfected Stag Handle. Large spear, sheep foot and punch blade, half polished blades. Brass lined. Nickel silver bolsters and shield. Per dozen $27.00



No. 00736—3⅝-inch Perfected Stag Handle. Large clip, large spey and punch blade, half polished. Brass lined. Nickel silver bolsters and shield. Per dozen $32.00

No. 00633¾—3¼-inch Perfected Stag Handle. Large clip, spey and punch blade, half polished. Nickel silver bolsters Brass lined. Per dozen $26.00

No. 00266—3½ inch Perfected Stag Handle. Two blades, large spear and bolt punch, half polished. Brass lined. Nickel silver bolster and shield. Per dozen $17.00



No. 30102—3⅝-in Ebony Handle. Large spear and punch, half polished. Nickel silver bolster and cap. Brass lined. Per dozen $20.00

No. 02673¼—4¼-inch Perfected Stag Handle. Two blades, large clip and pen, half polished. Brass lined. Nickel silver bolster, cap and shield. Per dozen $23.00

No. 02271—4-in Perfected Stag Handle. Large spear and pen, half polished Brass lined Nickel silver bolsters, caps and shield. Per dozen $23.00

No. 02635—3¾-inch Perfected Stag Handle. Large sabre clip and pen, half polished. Nickel silver bolsters and caps Brass lined. Per dozen $21.00

No. 0262—3⅝-in Perfected Stag Handle. Two blades, large spear and pen, half polished brass lined, iron bolster and cap, shielded. Per dozen $21.00

No. 1264—3⅝-in Buffalo Ivoroi Handle. Two blades, large spear and pen, half polished Brass lined. Nickel silver bolster, cap and shield. Per dozen $26.00

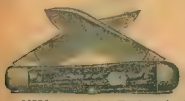
Average weight per dozen, 2¾ lbs. One-half dozen in a box.

UNIVERSAL POCKET KNIVES

No. 02102—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00

No. 026375—3¾-inch Perfected Stag Handle. Large sabre clip and pen, half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $20.00

No. 02335—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $19.00

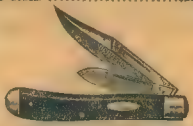


No. 02736—3¾-inch Perfected Stag Handle. Large spear and large clip, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

No. 026374—3¾-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $20.00

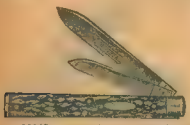
No. 82784—3¾-in Ebony Handle. Two blades, large sabre spear and pen, half polished. Brass lined. Nickel silver bolster and shield.
Per dozen $18.00

No. 02645—3¼-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

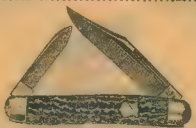


No. 226375—3⅜-inch Ebony Handle. Two blades, large sabre clip and pen, half polished. Brass lined. Nickel silver bolster, cap and shield.
Per dozen $20.00

No. 42653—3¾-inch Buffalo Ivoroy Handle. Large clip and pen, half polished. Nickel silver bolsters. Brass lined.
Per dozen $20.00

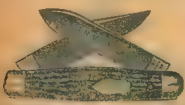


No. 02847—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $20.00



No. 02480—3⅞-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters and shield.....**Per dozen $20.00**

No. 42301—3½-inch Buffalo Ivoroy Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $20.00



No. 023353—3¾-inch Perfected Stag Handle. Large clip and large spear, half polished. Brass lined. Nickel silver bolsters.....**Per dozen $20.00**

No. 0264—3¾-in Perfected Stag Handle. Large spear and pen, half polished. Nickel silver bolsters, caps and shield.
Per dozen $18.00

No. 02239—3¾-inch Perfected Stag Handle. Two blades, large spear and pen, half polished. Brass lined. Iron bolsters and caps.
Per dozen $17.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

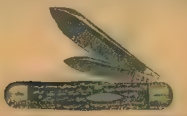
UNIVERSAL POCKET KNIVES

No. 42290—3½-inch Buffalo Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $20.00

No. 02630—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00

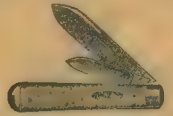
No. 02403—3⅝-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00

No. 02629½—3¾-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $18.00



No. 02629—3⅝ inch Perfected Stag Handle, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $18.00

No. 42629 — 3⅝-inch Buffalo Ivoroy Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $19.00



No. 6246—3⅝-in White Ivoroy Handle. Spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $18.00

No. 02267—3¾-inch Perfected Stag Handle. Two blades, large spear and pen. Brass lined. Nickel silver bolster, cap and shield. Easy opener.
Per dozen $18.00

No. 02640—3¼-inch Perfected Stag Handle. Large spear and pen. High color. Brass lined. Iron bolsters and caps.
Per dozen $18.00

No. 02154¾—3¼-inch Perfected Stag Handle. Large clip and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50

No. 02154⅝—3¼-inch Perfected Stag Handle. Large sabre clip and pen, high color.
Per dozen $16.50

No. 82623—3-in Tortoise Ivoroy Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolster, caps and shield.
Per dozen $16.50

No. 02623—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $16.50

No. 02633—3¼-inch Perfected Stag Handle. Large Clip and pen, half polished. Brass lined. Nickel silver bolsters and shield.
Per dozen $18.00

No. 0250—3-in Perfected Stag Handle. Large spear and pen, half polished. Nickel silver bolsters, cap and shield. Brass lined.
Per dozen $14.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

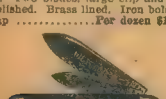
UNIVERSAL POCKET KNIVES

No. 02163¾—3¾-in ebony handle. Spear and pen, half polished. Brass lined. Nickel silver bolsters.
Per dozen $16.50

No. 02463¾—3¾-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, cap and shield.
Per dozen $16.50

No. 0246—3¾-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50
No. 3246—3¾-inch Ebony Handle.
Per dozen $16.50

No. 02239¾—3¾-inch Perfected Stag Handle. Two blades, large clip and pen, half polished. Brass lined. Iron bolsters and cap .....Per dozen $17.00

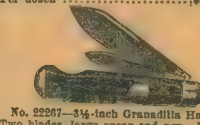


No. 82154—3¾-in Ebony Handle. Large spear and pen, half polished blades. Brass lined. Nickel silver bolsters and caps.
Per dozen $16.50

No. 02154—3¼-inch Perfected Stag Handle. Two blades, large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50

No. 02165—3¼-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50

No. 02222—3¼-inch Perfected Stag Handle. Large spear and pen, half polished. Brass lined. Nickel silver bolsters, caps and shield.
Per dozen $16.50



No. 22267—3¼-inch Granadilla Handle Two blades, large spear and pen. Brass lined. Iron bolsters and caps.
Per dozen $17.00
No. 32267—3¼-inch Ebony Handle
Per dozen $17.00

No. 0247—3¾-in Perfected Stag Handle. Large spear and pen, high color. Brass lined Iron bolsters and caps.
Per dozen $15.00

No. 02125½—3¾-inch Perfected Stag Handle. Two blades, large sabre clip and pen. Brass lined. Iron bolster.
Per dozen $13.00

No. 0247½—3¾-inch Perfected Stag Handle. Two blades, large sheep foot and pen. Brass lined. Iron bolsters and caps. Shielded .....Per dozen $15.00

No. 0247—3¾-inch Cocobolo Handle. Two blades, spear and pen, high color. Brass lined. Iron bolsters and caps.
Per dozen $15.00
No. 3247—3¾-inch Ebony Handle. As above .....Per dozen $15.00

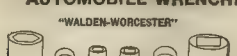
No. 52125—3½-in Ivoroy Handle. Two blades, large spear and pen. Brass lined. Iron bolster. Shielded..Per dozen $14.00

No. 0251—3-in Perfected Stag Handle. Large spear and pen, half polished. Brass lined Nickel silver bolsters, caps and shield .....Per dozen $17.00

Average weight per dozen, 2½ lbs. One-half dozen in a box.

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



MACHINE MADE SOCKETS

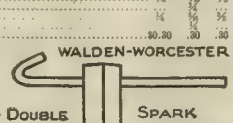
Sockets are Steel, Machine Made from the Solid Bar. Broached Depth is the Thickness of the Nut to be fitted, and Broached 1/64 in. Over the Size of the Nut. Sockets are Counter Drilled, making extreme bolt size depth of socket 1/32 in more than the thickness of the nut. The Outside Diameter of the Socket Size and Taper have been designed to Insure Strength and Service Conditions. The Broached End is Countersunk Slightly to Relieve the Square Edges and to allow more Rapid Placing of Socket on Bolt Head.

For Hexagon Heads

Nos.	214	216	218	219	220	222	224	225	226	228	230	231	232	234	236	240
Socket Size, In.	7/16	1/2	9/16	19/32	5/8	11/16	3/4	25/32	13/16	7/8	15/16	31/32	1	1 1/16	1 1/8	1 1/4
S. A. E. Nuts and Cap Screws	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1	1 1/16	1 1/8	1 1/4
U. S. Standard Nuts		1/4			5/16		3/8		7/16		1/2		9/16		5/8	3/4
U. S. Standard Cap Screws	1/4	5/16	3/8		7/16		1/2		9/16	5/8		3/4		7/8		1
U. S. Standard Bolt Heads		1/4		5/16		3/8		7/16		1/2		9/16		5/8		3/4
Each	$0.30	.30	.30	.30	.30	.30	.40	.40	.40	.40	.40	.50	.50	.50	.50	.50

For Square Heads

Nos.	114	116	118	120	122	124	128	132	136	140
Socket Sizes	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4
S. A. E. Nuts and Cap Screws	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4
U. S. Standard Nuts		7/16	1/2		9/16		3/4	7/8		1
U. S. Standard Cap Screws	1/4	5/16	3/8	7/16		1/2	5/8	3/4	7/8	1
U. S. Standard Bolt Heads		1/4		5/16		3/8	1/2		3/4	
Each	$0.30	.30	.30	.40	.40	.50	.60	.60	.60	.60



SPARK PLUG WRENCHES

Double End, Pressed Steel, Case Hardened

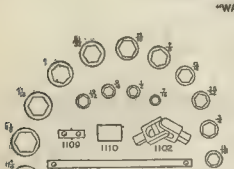
Two Sizes in One, 1/4 in. Over Size of Spark Plug, which Prevents Stretching and Gives Better Outside Clearance when plugs set in post plugs or deep in block

No. 2931	No. 2933	No. 2937	No. 3137
All in One	A-C "Cleo"	A. C. (Old Style)	A. C. (Old Style)
Auburn "Ford Size"	A-C "Titan"	Benford's Golden Giant Monarch	Auburn
Auburn "Long Henry	All in One	Bergie National	Benford's Golden Giant Monarch
Benton	A. V. Regular	Bethlehem	Bergie National
B. G. Nonshortable	Benton	Bosch	Bosch
Breech Block	Bethlehem	Jumbo Giant	Jumbo Giant
Brown	Breech Block	Leader "Giant"	Leader "Giant"
Champion "O"	Brown	Metzger	Miller
Champion "Toledo"	Derf	Miller	Rex Lion
Champion "X"	Fobat	Premier	Splitdorf (Code No. 784)
Harvard	Herz Bougie Mercedes	Reliance	Splitdorf (Code No. 163)
Liberty	Mosler	Rex Lion	Sterling
Mosler	Norwalk	Spitfire	Stewart "V-Ray"
Mosler Superior	Perfection	Splitdorf (Code No. 784)	Viking
Perfection	Red-Head	Splitdorf (Code No. 163)	Vital
Rajah	Scotless	Sterling	
Red-Head	Splitdorf (Code No. 145)	Stewart "V-Ray"	
Reflex		Vital	
Splitdorf (Code No. 145)		Viking	
Symonds			

Nos.	2931	2933	2937	3137
Openings, In.	7/16-1 1/4	5/16-1 3/4	5/16-1 3/4	5/16-1 1/4
Weight Each, Lbs.	.62	.62	.62	.62
Each	$0.50	.50	.50	.50

Kelley-How-Thomson Co. of Duluth
AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



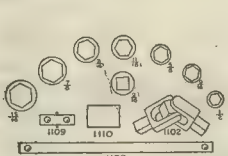
COMBINATION WRENCH SET

A Most Desirable Socket Wrench Set for Owners' use, and for General Service where the purchase of a larger set would not be warranted.

Contents:

1 No. 516—9 in. Ratchet Wrench
1 No. 1139—9 in. Extension Bar
1 No. 1102—Universal Joint
16 Sockets—Hexagonal 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4
Assortment covers all the various bolt and nut standards.

Per Set
No. 16—Packed in Finished Tool Box, Size 12x5 1/4x2 3/4 in. $12.00
Weight per Set, 9 1/2 Lbs.



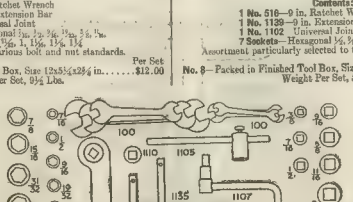
COMBINATION WRENCH SET

A Most Useful Small Set for Motor Car use. A Complete Assortment for use on Ford Cars.

Contents:

1 No. 516—9 in. Ratchet Wrench
1 No. 1139—9 in. Extension Bar
1 No. 1102 Universal Joint
7 Sockets—Hexagonal 1/2, 9/16, 5/8, 3/4, 7/8, 1, 1 1/8
Assortment particularly selected to fit Ford Cars

Per Set
No. 8—Packed in Finished Tool Box, Size 10 3/4x4 3/4x2 5/8 ..... $9 00
Weight Per Set, 5 1/2 Lbs.



COMBINATION WRENCH SET

An entirely new line of Sets. Sockets are Steel, Machine Turned from the Bar and Broached Accurately to Size. Inside Depth of Socket 1/2 in. more than thickness of the Nut; Ratchet Wrench an improved design, Simple, Strong and Reliable; All Parts are Machine Finished to Size and designed to give the user the best that can be produced in Combination Socket Wrench Sets.

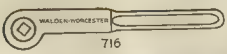
Contents

1 No. 716—12 in. Ratchet Wrench
1 No. 1139—Extension Bar
1 No. 1104—Combination "T" and Offset Wrench
1 No. 1102—Universal Joint
1 No. 1178—Brace Socket Wrench
1 No. 1109—Plug Connector
2 No. 1110—Socket Connectors
6—Hexagon Sockets—7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4
11—Square Sockets—3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4
1 No. 100—Set of 5 Open End Wrenches

Per Set
No. 27—Packed in Finished Tool Box, Size 16x10x2 7/8 in. $32 00
Weight per Set, 22 Lbs.

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



716

RATCHET WRENCH

Special Type of Pawl; Straight Line Action; Reduces the Tension in backing up the Wrench; Also gives a maximum strength and positive, smooth action; The ratchet is reversed by turning the Wrench over. There are only three working parts, which are made of high grade steel and properly tempered.

Each

No. 716—Length 12 in.; ⅜ in. Square Opening.....$3.00
Weight about 2 Lbs.

No. 516—Length 9 in.; ½ in. Square Opening..... 2 50
Weight about 1¾ Lbs.

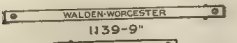
1102

UNIVERSAL JOINTS

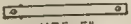
These Joints are Solid Steel, full machined finish; Used in combination with Ratchet Wrench Extension Bars and Sockets working successfully at an angle of 45 degrees.

Each

No. 1102—Universal Joints $1 50
Weight about ½ Lb.



1139-9"



1135-5"

EXTENSION BARS

For Combination Tee and Offset Handle (1105). Bars have Ball Friction on each end to hold sockets and other parts in engagement.

Each

No. 1135—Extension Bar.....$0.40
Weight about ½ Lb.

No. 1139—Extension Bar..... .50
Weight about ½ Lb.

1105

COMBINATION TEE AND OFFSET WRENCH

The Knurled Set Screw allows for use of the handle in any position; The Shank or Extension Bar (1135) is removable. The ball friction on both ends to couple combination parts or sockets.

Each

No. 1104—Combination "T" and Offset Wrench.....$0.90
Weight about 1¼ Lb.

COMBINATION TEE AND OFFSET HANDLE

This number covers the handle only as illustrated. If complete tool is wanted, order No. 1104. Each
No. 1105—Combination Tee and Offset Handle.....$0.50
Weight about ¾ Lb.

1109

PLUG CONNECTOR

Square Bar Connector with ball friction on each end for coupling combination parts.

Each

No. 1109—Plug Connector $0.30
Weight about ½ Lb.

1110

SOCKET CONNECTOR

Round Socket with ⅜ in. Square Hole for Coupling Combination Parts.

Each

No. 1110—Socket Connector:.....$0.30
Weight about ½ Lb.

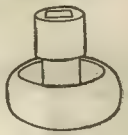
1107

BRACE WRENCH

For use with various sockets and combination parts; Ends of Brace are provided with ball friction to hold parts in engagement; May be used also as a double socket base. If complete brace with handle is wanted, order No. 1178.

Each

No. 1107—Brace Wrench; Length 9¾ in. Sweep 10 in..... $1 00
No. 1178—Brace Wrench, Complete with Handle..... 1 50
Weight about 1¾ Lbs.



1108

BRACE TOP OR HANDLE

A pressed steel handle working on cone bearing and provided with socket end to fit brace wrench and various combination parts; Valuable auxiliary with extension bar, Ratchet wrench, and socket, on overhead work. Millwrights particularly will appreciate this attachment and combination.

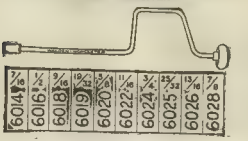
Each

No. 1108—Brace Taper Handle $0 50
Weight about 1½ Lbs.

Kelley-How-Thomson Co. of Duluth

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



BRACE SOCKET SPEED WRENCHES

Length Overall, 18¾ in.; Shank 11¼ in.

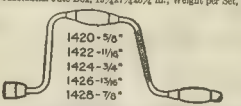
Long Shank Brace Socket Wrenches are used as Speed Tools in Assembling and Dismantling all kinds of machines and are particularly popular and effective tools on motor car work.

Are most efficient when used on a series of the same sized nuts as on Cylinder Heads. To gain most time, are used in combination with a regular offset wrench which allows more leverage for first releasing or final tightening of the nuts. These are indispensable tools in any repair shop. New Metal Knob Tops which operate on Coes Bearings add materially to service value of the tool.

Nos.	6014	6016	6018	6019	6020	6022	6024	6025	6026	6028
Socket Size, In.	3/16	1/4	5/16	11/32	3/8	7/16	1/2	25/32	13/16	7/8
Weight Each, Lbs.	1.31	1.54	1.54	1.41	1.41	1.75	1.78	1.78	1.78	1.84
Each	$0.80	.80	.80	.80	.80	.80	.80	.80	.80	.80

Set No. 600—10 Speed Wrenches, One Each of the Above ..... Per Set

Packed in a Substantial Jute Box, 10¾x7¼x3¾ in.; Weight per Set, 16¾ Lbs. $8 00



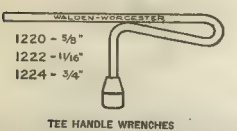
TIRE AND RIM WRENCHES

Length Overall, 13½ in.; Sweep 10 in.

This is a popular type of Wrench for Use on Demountable Rims. The Steel Sockets are Machine Turned and Broached Accurately to Size and so fastened to the wire that they cannot turn (no pins to shear off). The Swivel Handles are Pressed Steel. There is only one size nut on any rim so that this solid handle tool fills all requirements (no loose sockets to be misplaced). Tire changes are emergency work and dependable tools are worth all they cost.

All Listed Sizes in Wire Handle Socket Wrenches are the Short Diameter of Nut or Bolt Head to be Fitted

Nos.	1420	1422	1424	1426	1428
Socket Size, In.	5/8	11/16	3/4	13/16	7/8
For Rims	Kelsey, Ford, Saxon, Simplicity	Firestone, Goodrich, Fisk-Dem., Gorman	Stan-Weld, Baker, Buick, Continental, Detroit	Stan-Weld No. 2 Universal	Fisk, Goodyear
Weight Wrench, Lbs.	1.18	1.18	1.25	1.25	1.31
Each	$1.00	1.00	1.00	2.00	1.00



TEE HANDLE WRENCHES

This Wrench has been furnished very extensively with Rim Equipments as newcars and has proven very satisfactory for this class of service.

Nos.	1220	1222	1224
Socket Size, In.	5/8	11/16	3/4
Weight Each, Lbs.	.88	.93	1
Each	$0.50	.50	.50

OPEN END WRENCHES

Sold Only in Full Sets

Thin Stamped Steel Wrenches are most useful in many places. Special Steel is used to give Strength and Wearing Qualities.

Size Openings:

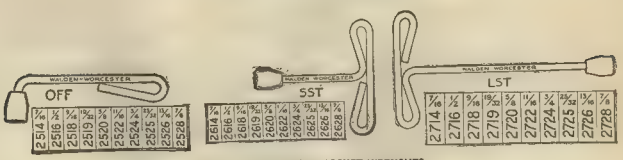
5/16-3/8	7/16-1/2	9/16-3/4	5/8-3/4	7/8-1

Set No. 100—5 Wrenches as shown above ..... Per Set $1 50

Weight per Set 1.38 Lbs.

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



TEE AND OFFSET HANDLE SOCKET WRENCHES

Wire Handled Construction and Machine Turned Sockets make it possible to produce an equally well made and serviceable tool at much less cost than usual drop forged wrenches. Sockets are Steel, Machine Turned from Solid Bar, and Broached Accurately to Size. Wire Handles are proper Size and class of material to guarantee service. Sockets are so fastened to the wire they will not turn or loosen.

Offset Socket

Handles 7 in. Long

Nos.	2514	2516	2518	2519	2520
Sockets	5/16	1/2	5/8	11/16	3/4
Each	$0.45	.45	.45	.45	.45

Nos.	2522	2524	2525	2526	2528
Socket	7/8	1	1 1/16	1 1/8	1 1/4
Each	$0.45	.45	.45	.45	.45

Short Shank Tee Handle

Handle 6 in. Long; Shank 6 in. Long

Nos.	2614	2616	2618	2619	2620
Sockets	5/16	1/2	5/8	11/16	3/4
Each	$0.50	.50	.50	.50	.50

Nos.	2622	2624	2625	2626	2628
Sockets	7/8	1	1 1/16	1 1/8	1 1/4
Each	$0.50	.50	.50	.50	.50

Long Shank Tee Handle

Handle 6 in. Long; Shank 12 in. Long

Nos.	2714	2716	2718	2719	2720
Sockets	5/16	1/2	5/8	11/16	3/4
Each	$0.55	.55	.55	.55	.55

Nos.	2722	2724	2725	2726	2728
Sockets	7/8	1	1 1/16	1 1/8	1 1/4
Each	$0.55	.55	.55	.55	.55

DISPLAY AND STOCK SET

TEE AND OFFSET HANDLE SOCKET WRENCHES

Three types—ten sizes of each type. One price for all sizes. Five wrenches of each size and type—a total of one hundred and fifty wrenches.

This free display board is a great salesman. Sizes of each wrench are plainly marked on the board and on the wrench.

Every Mechanic who uses wrenches has need for one or more of these tools and this attractive display in your store will make the sales.

The face of the board is covered with sheet metal which is handsomely lithographed in black and goldenrod; a fine setting for the finished wrenches. "Walden-Worcester" Wire Handle Socket Wrenches are recognized standards for service.

Ten Sizes—Hexagonal Sockets

50	Offset Wrenches	.45	$22 50
50	S. S. Tee Wrenches	.50	25 00
50	L. S. Tee Wrenches	.55	27 50
150	Wrenches	Total	$75.00

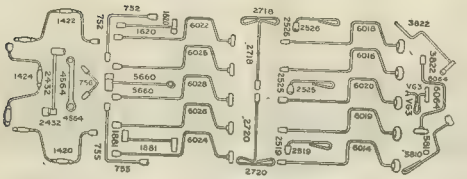
Board and Hooks (crated), 60 Lbs.; Wrenches (boxed for shipment), 170 Lbs.; Wrenches (net Weight), 147 Lbs.; Size of Board, 6 ft. x 2 ft.

Per Set

No. 180—150 Wrenches, Complete with Display Board.....$75.00

Kelley-How-Thomson Co. of Duluth
AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



GARAGE SERVICE SETS

An Assortment of Thirty Wrenches Selected from Standard and Special Numbers to make a Complete Assortment most desirable for General Repair Work

A Wrench Combination perfectly adapted for work on any motor car, with which time and labor cost to the customer may be economized, and the productiveness of the shop and its facilities largely increased.

These are special tools, designed after careful study of garage service' each serving a specific purpose and having qualities necessary for thoroughly good work.

These 30 wrenches, some with two sockets, are equivalent to 39 different sizes and types, as follows:

Offset wrenches	13
Speed wrenches	10
L-wrenches	6
Special wrenches	5
Demountable rim wrenches	3
Tee-handle wrenches	2
Total	39

The combination was made to fit all popular makes of cars—to work wherever particular type wrenches are necessary. Every condition that makes for economy and time saving has been anticipated, and utility provided for. With the No. 30 Garage Service Set you will have every wrench you will need. Your equipment will be standardized. The quality of work insured.

Following is list of tools·

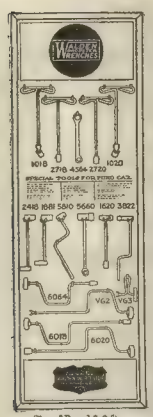
Stock No.	Socket Sizes	Each
1	1620 . . . 5/8, 1/2 in.	$0 65
1	5810 . . . 5/8 in.	50
1	5660 . . . 7/16, 9/16, 11/16 in.	1 30
1	2718 . . . 3/4 in.	55
1	2720 . . . 3/4 in.	55
1	3822 . . . 1/2 in.	60
1	6054 . . . 1/2 in.	70
1	VG-3 . . No socket	50
1	6014 . . 7/8 in.	80
1	6016 . . 1 in.	80
1	6018 . . 9/16 in.	80
1	6019 . . 11/16 in.	80
1	6020 . . 5/8 in.	80
1	6022 . . 7/8 in.	80
1	6024 . . 3/4 in.	80
1	6025 . . 15/16 in.	80
1	6026 . . 1/4 in.	80
1	6028 . . 7/8 in.	80
1	4564 . . 9/16, 5/8 in.	80
1	2432 . . 7/8, 1 in.	1 20
1	2519 . . 15/16 in.	85
1	2525 . . 5/8 in.	45
1	2526 . . 7/8 in.	45
1	756 . . 7/16, 1/2 in	45
1	755 . . 3/8, 7/16 in.	60
1	752 . . 5/16, 3/8 in.	65
1	1420 . . 5/8 in.	65
1	1422 . . 9/16 in.	1 00
1	1424 . . 3/4 in.	1 00
1	1881 . . 7/16 in., 1/2 in. sq.	1 00

Set No. 30—39 Wrenches as Listed Above.. . . . . Per Set $22 90

Packed in Compact Wooden Case 20½x7x7 in., and weighs 41 Lbs., ready for shipment. Boxes are substantial and should be received by the distributor in proper condition for re-shipment without repacking.

"WALDEN-WORCESTER"

FORD GARAGE SERVICE WRENCHES



Size of Board 6x2 ft.
This Handsome Display Board allows you to display your stock and will multiply your sales.
Free with Set No. 80.

Name of Part	Wrench
BODY PARTS	
Body Bracket Connecting Bolt Nut	5660
Dash Bracket to Dash Bolt Nut	1620-1018
Dash Bracket to Dash Bolt Nut	6064
CARBURETOR ATTACHMENTS	
Carburetor Flange Bolt and Nut	1018
FAN	
Fan Adjusting Screw	2718-6018
Fan Bracket Bolt	2418
FENDERS	
Front Fender Iron Bolt Nut (side)	2418
Front Fender Iron Bolt Nut (bottom)	2418
FRONT AXLE	
Ball Socket Bolt and Nut	6018
Front Radius Rod Nut	5660
Spindle Bolt Nut	2418
Spindle Bolt with Oiler	5660
Spindle Connecting Rod Bolt and Nut	5660
Spindle Connecting Rod Bolt with Oiler	5660
Steering Yoke Clamp Bolt and Nut	2418
MAGNETO	
Fly Wheel Cap Screw	3822
Magnet Bolt	2718-6018
MOTOR	
Commutator Case Support Bolt	2718-6018
Commutator Case Support Bolt (On cars with self-starter)	2720-6020
Connecting Rod Cap Bolt Nut	5810-6020
Crank Case Arm Bolt and Nut (side)	2418
Crank Case Arm Bolt and Nut (top)	2418
Crank Case and Cylinder Cover Cap Screw	6018-2718
Crank Case Lower Cover Screw	6064
Crank Shaft Bearing Bolt	1681
Crank Shaft Bearing Bolt Center and Front	1681-2418
Crank Shaft Bearing Bolt Nut	2418
Cylinder Cover Bolt Nut	2718
Cylinder Cover Cap Screw	2718-6018
Cylinder Cover Cap Screw (Cars with self starter)	2720-6020
Cylinder Head Cap Screw	1620-6020
Cylinder Valve Cover, Stud Nut	1018
Inlet and Exhaust Clamp Stud Nut	2418-1018
Piston Pin Lock Screw	1681
Water Cylinder Inlet Connecting Cap Screw	1620
Water Cylinder Outlet Connecting Cap Screw	1620

Name of Part	Wrench
MUFFLER	
Muffler Rod Nut	6018-6064-2716
RADIATOR	
Radiator Stud Nut	2718
REAR AXLE	
Axle Housing Bolt and Nut	6064-1620
Brake Shoe Support Bolt	1620
Brake Shoe Support Nut	2418
Differential Case Stud Nut	2418
Differential Drive Gear Screw	6064
Drive Shaft Roller Bearing, Stud Nut	2720-1620
Radius Rod Bolt and Nut	5660
Rear Hub Lock Nut	2432
RUNNING BOARDS	
Running Board, Bolt Nut	1681
Running Board Fender, Bolt Nut	1681
SPRINGS	
Front Spring Clip Nut	2418
Front and Rear Spring Hanger Nut	5660
Front Spring Perch Nut	5660
Rear Spring Clip Nut	5660
STEERING GEAR	
Steering Post Bracket, Bolt and Nut	2418
Steering Tubing Flange Bolt Nut	6064
TRANSMISSION CONTROL	
Brake Adjusting Nut	4564
Brake Reverse Support Bolt Nut	2418
Clutch Pedal Support Bolt Nut	2418
Controller Shaft, Bracket Bolt and Nut	2418
Hub Brake Rod Support, Bolt and Nut	1620
Reverse Adjusting Nut	4564
TRANSMISSION COVER	
Transmission Cover Bolt and Nut	6018
Universal Ball Cap, Bolt and Nut	1018-2718
Universal Ball Cap Screw	1018-2418
WHEELS	
Hub Bolt Nut	5660-6022
Rear Hub Lock Nut	5660

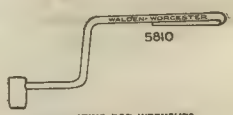
Set No. 80—Display Board and 80 Wrenches, Five Each of Nos. 1620, 2810, 2718, 2720, 4564, 2418, 1018, 1020, 6064, 6018, 6020, VG-2, VG-3, 5660, 1681 and 3822 . . . . . Per Set $72.50

Weight per Set with Display Board, 188 Lbs.

TOMAHAWK, TRIPLE SOCKET WRENCHES

Will fit the Axle Housing Bolt and Nut, Brake Shoe Support Bolt; Cylinder Head Cap Screw, Dash Bracket to Dash Bolt and Nut, Drive Shaft Roller Bearing, Stud and Nut, Water Cylinder Inlet Connection Cap Screw, Water Cylinder Outlet Connection Cap Screw.

Each
No. 1620—Socket Sizes 5/8 and 1/2 in. $0.65
Weight Each, 1.05 Lbs.



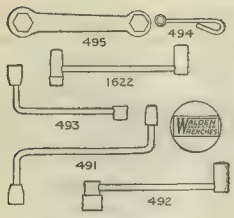
CONNECTING ROD WRENCHES

Fits All Connecting Rod Cap Nuts. Includes the Fourth Connecting Rod

Each
No. 5810—Fits all Connecting Rod Cap Nuts $0 50
Weight Each, .33 Lb.

Kelley-How-Thomson Co. of Duluth
AUTOMOBILE WRENCHES

"WALDEN WORCESTER



MAXWELL CAR

A Complete Set of Wrenches covering important Nuts and Bolts on Maxwell cars.

No. 493—Will Fit the following: Cylinder Head; Fan Adjustment; Fly Wheel to Crank Shaft; Head Lamp Brackets; Motor Support Front; Muffler; Pinion Housing; Radiator Support; Running Board Bracket; Spring Clips for Front and Rear Axles; Tie Rod Clevis; Universal Joints.

No. 491—Will Fit the following: Cam Shaft Bearings; Clutch Housing; Connecting Rod Bearings; Differential Front Bearing Lock Nut; Differential Split; Exhaust Manifold to Cylinder Block, Main Bearings; Spindle Pivot Nut; Spring Shackles, rear; Steering Arm Clamp; Tie Rod and Ball; Tie Rod Clevis; Transmission Cover; Wrist Pin.

No. 492—Will Fit the following: Cover for Timing Gears; Front Hub Nut; Front of Rear Spring Shackles; Front Wheel Hub Flange; Steering Arm; Tire Carrier to Frame; Universal Joints.

No. 494—Will Fit the following: Carburetor to Intake Manifold; Intake Manifold to Cylinder Block.

No. 495—Will Fit the following: Rear Hub Nut Steering Gear Case Support; Steering Gear Worm Nut.

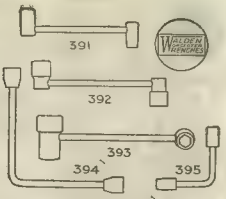
No. 1622—Will Fit the following: Body to Frame; Fender to Frame; Fly Wheel Housing; Muffler Support; Oil Pan; Pedals; Steering Gear Case Cover; Steering Shaft Coupling; Water Cylinder Inlets.

Nos.	493	491	492	494	495	1622
Socket Size, Hex., In..	⅝, ¾	⅝, ¾	⅞, ¾	½	1¼, 1½	⅞, ¾
Length Shank, In.	8¾	10½	10	6½	10	9
Weight Each, Lbs.	.73	1.06	1.28	.28	.76	1.06
Each	$0.65	.85	.90	.40	.75	.80

Per Set

Set No. 49—Six Wrenches, One Each, as shown above..... $4.15

Weight per Set about 5.14 Lbs.



CHEVROLET CAR

These Wrenches cover the Essential Parts on Chevrolet Cars; Have been designed for real service, and will be popular with both Garage men and Owners.

No. 391—Will Fit the following: Front Wheel Hub Flange; Motor Support, Front; Motor Support, Rear; Generator Support; Steering Levee; Tie Rod; Water Cylinder Inlet.

No. 392—Will Fit the following: Spring Clips on Front and Rear Axle.

No. 393—Will Fit the following: Front and Rear Hub Nut; Spring Shackles, Front and Rear; Steering Arm; Transmission Support.

No. 394—Will Fit the following: Cylinder Head; Demountable Rims; Differential Housing, Front; Main Bearings; Spindle Pivot; Tie Rod Clevis.

No. 395—Will Fit the following: Carburetor to Intake Manifold; Connecting Rods; Differential Housing Split; Exhaust Manifold to Cylinder Block, Fender to Frame, Intake Manifold to Cylinder Block; Muffler Support; Radiator Support; Starter; Steering Gear Case Support; Transmission Cover, Universal Joints.

Nos.	391	392	393	394	395
Socket Size, Hex., In..	⅜, ½	⅞, ⅝	⅝, 1⅛	¾, ⅞	½, ⅝
Length Shank, In.	8	9½	10½	8x8	4x4
Weight Each, Lbs.	.73	1.22	2.19	1.19	.50
Each	$0.65	.90	1.50	.70	.50

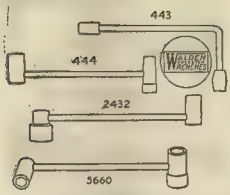
Per Set

Set No. 39—Five Wrenches, One Each as shown above.... $4.35

Weight per Set about 5.85 Lbs

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



BUICK CAR

These Wrenches have been designed to cover Buick Models, and because of their efficiency in saving time and giving service they have been approved by Buick Service Men.

No. 444 Will Fit the following: Battery Connections; Connecting Rods; Cover for Timing Gears; Differential Housing, Front and Rear Cover, Exhaust Manifold to Cylinder Block; Fly Wheel Housing; Generator Support, Head Lamp Brackets; Intake Manifold to Cylinder Block; Muffler Support, Front; Rear Spring Perch to Housing; Steering Gear Case Cover; Tappet; Saddle Straps; Tie Rod Clevis; Tie Carrier to Frame; Transmission Cover; Universal Joints; Valve Bracket; Water Cylinder Inlet; Water Cylinder Outlet, Water Pump Support.

No. 2432 Will Fit the following: Cylinder to Base; Fender to Frame; Main Bearings; Rear Spring Pivot; Spindle Pivot; Steering Gear Case Support; Spring Clips; Front Axle; Tie Rod; Torque Rod, Front and Rear.

No. 5660—Will Fit the following: Front Wheel Hub Flange; Motor Support, Rear; Muffler Support, Rear; Rear Wheel to Brake Drum; Rear Wheel Hub Flange; Spindle Pivot Nut; Spring Shackle, Front.

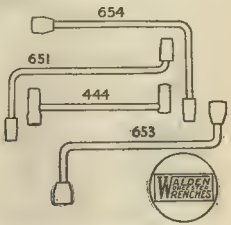
No. 443—Will Fit the following: Crank Case; Fan Adjustment; Radiator Support; Steering Gear Case Cover.

Nos.	444	2432	5660	443
Socket Size, Hex., In.	3/8, 9/16, 5/8	1 7/8	3/4, 7/8, 15/16	5/8, 3/4
Length of Shank, In.	9	11 1/2	10 1/2	9 1/2
Weight Each, Lbs.	1.06	1.43	1.85	.81
Each	$0.75	.95	1.10	.65

Per Set

Set No. 44—Four Wrenches, One Each as shown above.....$3.45

Weight per Set about 4.00 Lbs.



DODGE CAR

These Wrenches have been designed specially for use on Dodge cars, and have been approved by Dodge Service Men.

No. 651—Will Fit the following: Differential Housing, Rear; Drag Link; Exhaust Manifold to Cylinder Block; Gear Case Cover; Motor support Front; Muffler Support, Front; Muffler Support, Master Gear; Steering Shaft Coupling; Tie Rod; Water Cylinder Inlet.

No. 654—Will Fit the following: Cover for Timing Gear; Cylinder Head; Fly Wheel Housing; Intake Manifold to Cylinder Block; Oil Pan; Transmission Cover.

No. 444—Will Fit the following: Cover for Timing Gears; Drag Link; Exhaust Manifold to Cylinder Block; Fly Wheel Housing; Head Lamp Brackets, Intake Manifold to Cylinder Block, Master Gear, Muffler Support, Steering Gear Case Cover; Steering Gear Case Support; Tie Rod; Tie Rod Clevis; Transmission Cover; Universal Joint; Water Cylinder Inlet.

No. 653—Will Fit the following: Connecting Rods; Front Wheel Hub Flange; Gear Worm Wheel Nut; Main Bearings; Motor Support, Rear; Spring Clips, Front Axle; Spring Shackles, Front; Tie Rod Clevis.

Nos.	651	654	444	653
Socket Size, Hex., In.	3/8, 7/16	1/2, 9/16	1/2, 9/16, 5/8	5/8, 3/4
Length Shank, In.	10	6	9	11
Weight Each, Lbs.	88	1 06	1 06	1 18
Each	80 65	.65	.75	.70

Per Set

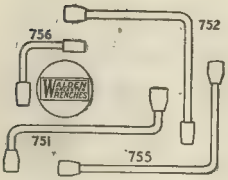
Set No. 65—Four Wrenches, One Each as shown above $2.75

Weight per Set about 3.90 Lbs.

Kelley-How-Thomson Co. of Duluth

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"



OVERLAND CAR

Except Model 4

These Wrenches are specially designed to cover in a general way all Overland Models except the New Model 4, which is covered by New Set No. 76.

No. 751—Will Fit the following: Cylinder Head; Differential Housing, Front; Spring Clips, Front Axle; Spring Perch; Tire Rod Clevis.

No. 752—Will Fit the following: Body to Frame; Connecting Rods; Exhaust Manifold to Cylinder Block; Generator Support, Main Bearings.

No. 755—Will Fit the following: Differential Housing, Front; Fan Adjustment; Head Lamp Brackets; Motor Support, Rear; Radiator Support; Rear Wheel Hub Flange; Spring Perch; Spring Shackles; Front; Steering Gear Case Support; Tie Rod Clevis; Transmission Support.

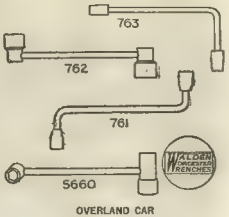
No. 756—Will Fit the following: Cover for Timing Gears; Muffler; Muffler Support; Oil Pan; Oil Pump; Transmission Covers.

Nos.	751	752	755	756
Socket Size, Hex., In.	⅝, ¾	⅝, ¾	⅝, ¾	⅝, ¾
Length Shank, In.	11⅝	6⅜	10⅜	4¼
Weight Each, Lbs.	1.06	1.06	1.13	.50
Each	$0.65	.65	.65	.60

Per Set

Set No. 75—Four Wrenches, One Each as shown above. $2.55

Weight per Set about 3.94 Lbs.



OVERLAND CAR

Model 4

This particular selection of Wrenches is necessary for this new model; Overland owners and Service Men know the value of these special Socket Wrench Sets.

No. 5660—Will Fit the following: Brake Support; Exhaust Manifold to Cyander Block; Front Spindle Pivot, Front Wheel to Hub Flange; Motor Support, Front and Rear; Rear Hub Nut; Rear Wheel to Brake Drum; Rear Wheel Hub Flange; Spring Clips, Front and Rear; Spring Shackles, Rear; Spring Bracket, Rear.

No. 761—Will Fit the following: Cylinder Head; Demountable Rims; Differential Housing, Front. Gear Worm Wheel Nut; Main Bearings; Spring Shackles, Front; Tie Rod and Ball; Tie Rod Clevis.

No. 762—Will Fit the following: Differential Housing; Oil Plug; Oil Drain Plug; Spring Bracket, Front; Steering Arm.

No. 763—Will Fit the following: Body to Frame; Clutch Plate; Connecting Rods; Cover for Timing Gears; Exhaust Pipe Flange; Fan Adjustment, Fly Wheel to Crank Shaft; Fly Wheel Housing; Generator Support; Head Lamp Brackets; Muffler; Muffler Support; Oil Pan; Pedals; Radiator Support; Steering Gear Case Cover, Steering Gear Case Support; Transmission Cover; Universal Joints; Water Cylinder Inlet; Wrist Pin.

Nos.	5660	761	762	763
Socket Size, Hex., In.	⅝, ¾, ⅞	¾, ⅞	1⅛, 1	⅞, 1⅛
Length Shank, In.	10½	10½	10¾	9⅞, 11¼
Weight Each, Lbs.	1.06	1.03	1 56	69
Each	$1.10	.55	1 10	65

Per Set

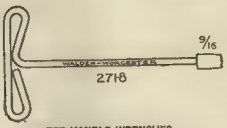
Set No. 76—Four Wrenches, One Each as shown above $3 50

Weight per Set about 4 84 Lbs.

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"

FORD GARAGE SERVICE WRENCHES



TEE HANDLE WRENCHES

No. 2718—Used on Commutator Case Support Bolt; Crank Case and Cylinder Cover Cap Screw, Cylinder Cover Bolt and Nut; Cylinder Cover Cap Screw; Fan Adjusting Screw and Nut; Magnet Bolts; Radiator Stud Nut; Universal Ball Cap Bolt and Nut.

No. 2720—Used on Commutator Case Support Bolt (on cars with self-starter); Cylinder Cover Cap Screw (on cars with self-starter), Drive Shaft Roller Bearing Stud and Nut.

	Each
No. 2718—Socket 9/16 in.; Handle 6 in.; Shank 12 in. Long	$0.55
No. 2720—Socket 5/8 in.; Handle 6 in.; Shank 12 in. Long	.55

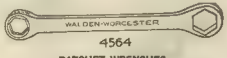
Weight Each 1.12 Lbs.

DOUBLE SOCKET OFFSET WRENCHES

Will Fit the following: Brake Reverse Support Bolt and Nut; Brake Shoe Support Bolt; Clutch Pedal Support Bolt and Nut; Crank Case Arm Bolt and Nut (side); Crank Case Arm Bolt and Nut (top); Crank Shaft Bearing Bolt Nut; Crank Shaft Rear Bearing Bolt; Dash Bracket to Dash Bolt and Nut; Differential Case Stud and Nut; Fan Bracket Bolt; Front Fender Iron Bolt and Nut (bottom), Front Spring Clip Nut; Inlet and Exhaust Clamp Stud and Nut; Spindle Bolt Nut; Steering Post Bracket Bolt and Nut; Steering Yoke Clamp Bolt and Nut; Universal Ball Cap, Bolt and Nut; Universal Ball Cap Screw.

	Each
No. 2418—Socket Sizes 9/16 and 3/4 in.; Length 9 in.	$0.75

Weight Each, 1 Lb.

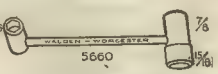


RATCHET WRENCHES

9/16 In. Hexagon Opening particularly designed for use on the Ford Brake and Reverse Transmission Bands. Opposite End 5/8 in. for use on Slow Speed Connecting Lock Nut and also Champion X Spark Plugs. One of the most valuable tools to an owner on account of the ease in taking up bands.

	Each
No. 4564—5/8 and 9/16 in. Hexagon Openings	$1.20

Weight Each 02 Lbs.

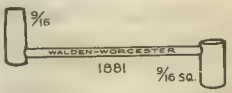


TRIPLE SOCKET OFFSET WRENCHES

Will Fit the following: Body Bracket Connecting Bolt and Nut; Front Radius Rod Nut, Front Spring Perch Nut; Front and Rear Spring Hanger Nut; Hub Bolt and Nut; Radius Rod Bolt and Nut; Rear Spring Clip Nut; Spindle Bolt with Oiler; Spindle Connecting Rod Bolt with Oiler; Spindle Connecting Rod Bolt Nut.

	Each
No. 5660—Socket Sizes 7/8, 7/8 and 3/4 in.; Length 10 1/2 in.	$1.10

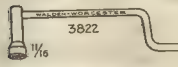
Weight Each, 1.56 Lbs.



Will Fit the following: Crank Shaft, Bolt and Nut; Piston Pin, Locking Screw; Running Board, Bolt Nut; Running Board to Fender, Bolt Nut.

	Each
No. 1881—Socket Sizes 9/16 Hexagon and 9/16 in. Square; Length Overall, 9 in.	$1.00

Weight Each, 1.13 Lbs.



SOCKET WRENCHES

Used on Fly Wheel Cap Screws, heretofore considered an impossible place for a Socket Wrench

	Each
No. 3822—Socket Six 1/2 in., Hexagon	$0.60

Weight Each, 3/4 Lb.

SHORT SPEED WRENCH

Used on Crank Case, Lower Cover Screw; Differential Drive Gear Case; Muffler Rod Nut; Rear Axle Housing, Bolt and Nut; Steering Tube Flange, Bolt and Nut.

	Each
No. 6064—Socket Size 1/2 in. Hexagon; Length 12 3/8 in.	$0.70

Weight Each, 1.52 Lbs.

AUTOMOBILE WRENCHES

"WALDEN-WORCESTER"

FORD GARAGE SERVICE WRENCHES

BRACE SPEED WRENCHES

No. 6018—Used on Commutator Case Support Bolt; Crank Case and Cylinder Cover Cap Screw, Cylinder Cover Cap Screw, Fan Adjusting Screw and Nut; Magneto Bolts; Transmission Cover Bolt and Nut.

No. 6020—Used on Commutator Case Support Bolt (on cars with self-starter); Cylinder Cover Cap Screw (on cars with self-starter); Cylinder Head Cap Screw.

No. 6228—Used on Front Fender Iron Bolt Nut (side); Radiator Stud Nut.

Nos.	6018	6020	6228
Socket Sizes, In.	⅜	⅝	¾
Length Shank, In.	12	11	26
Weight Each, Lbs.	1.36	1.61	1.74
Each	$0.80	.90	1.00

SPEED WRENCHES

The Extension Socket Holds either the Nut or Bolt Head while the operator spins it off. Extension Arm is Adjustable for Different Bolt Lengths.

No. 6316 will fit the Rear Axle Housing Bolt and Nut.

No. 6318 will fit the Ball Socket, Bolt and Nut; Crank Case Arm Bolt and Nut (rear); Steering Post Bracket; Bolt and Nut; Steering Yoke Clamp, Bolt and Nut; Transmission Cover, Bolt and Nut.

Nos.	6316	6318
Socket Sizes	¼, ⅛	⅜, ⅜
Length Overall, In.	20½	20½
Weight Each, Lbs.	1.75	1.75
Each	$2.00	2.00

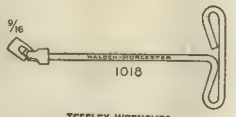
VALVE GRINDER WRENCH

All Steel. The Original Wire Handle Valve Grinder Re-designed with ⅝ in. Bar Handle which swivels on cone bearings. The Fork end fits the head perfectly.

Each

No. VG3—Short Valve Grinder.....$0.50

Weight Each about ⅓ Lb.



TEEFLEX WRENCHES

Universal Joints and Sockets Complete in One Solid Tube

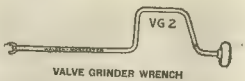
No. 1018—Used on Crank Case, lower cover screw; Dash Bracket to Dash, bolt nut; Muffler Rod Nut; Steering Tube Flange, bolt nut.

No. 1078—Used on Carburetor Flange, Bolt and Nut; Commutator Case Support Bolt; Cylinder Valve Cover, Stud Nut, Inlet and Exhaust Clamp, Stud Nut; Universal Ball Cap, Bolt and Nut; Universal Ball Cap, Cap Screw.

No. 1020—Used on Connecting Rod, Cap Nut; Cylinder Head Cap Screw; Water Cylinder Inlet Connections, Cap Screw.

Nos 1022 and 1024 are not Ford Wrenches.

Nos.	1016	1018	1020	1022	1024
Socket Size, In.	½ Hex.	⅝ Hex.	⅝ Hex.	⅝ Hex.	¾ Hex.
Length, In.	13¼	13¼	13¼	13¼	13¼
Weight Each, Lbs.	1.63	1.16	1.16	1.28	1.34
Each	$2.00	2.00	2.00	2.00	2.00

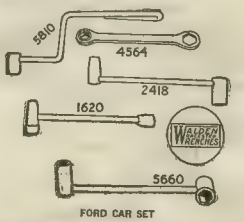


VALVE GRINDER WRENCH

Fork End Flexible and will Reach All Valves including one under the Dashboard

No. VG2—Long Arm Brace Grinder Wrench.....Each $0.80

Weight Each, 1¼ Lbs.



FORD CAR SET

This Set of Five Tools is all that is needed by the average Ford owner for repairs, and are fully illustrated and described above.

Per Set

No. 57—One Each Nos. 1620, 2418, 4564, 5660 and 5810 Wrenches. $4.20

Weight per Set, 5¼ Lbs.

PADLOCK ASSORTMENTS

AND DISPLAY AND STOCK CABINETS

Front View of Cabinet

Rear View of Cabinet

This Cabinet is Neat and Convenient, Nicely Finished and on the Front are Mounted Twenty Styles of Padlocks, making an Attractive Show Case. Place the Cabinet where it Can be Seen and the Locks Will Sell Themselves

They Retail for 10, 15, 25 and 50 Cents

Per Assortment

No. 24501—Contains 7½ Dozen Padlocks, Assorted, of the Numbers shown on the front. They Retail for 10, 15, 25 and 50 Cents..**$18.70**

Size of Cabinet, 19 inches High, 16 inches Wide and 11½ inches Deep.
Each Cabinet in a Package Ready to Reship.
Four (4) Cabinets in a Crate.

Weight of Cabinet and Contents, 42¾ pounds.
Weight of Crates and Contents, 188 pounds.
Weight of Locks only, 24½ pounds.
Measurements of Crate, 35 inches by 26 inches by 22 inches.

First Row		Retails at 10c Each
No. 4078 —7	Locks	$0.70
No. 4346¼—7	Locks	.70
No. 4346 —7	Locks	.70
No. 4078¼—7	Locks	.70
Second Row		**Retails at 15c Each**
No. 4237 —4	Locks	$0.60
No. 4180¼—4	Locks	.60
No. 4180 —4	Locks	.60
No. 4237¼—4	Locks	.60
Third Row		**Retails at 25c Each**
No. 4305¼—4	Locks	$1.00
No. 4303 —4	Locks	1.00
No. 4303¼—4	Locks	1.00
No. 4305 —4	Locks	1.00

Fourth Row		Retails at 25c Each
No. 4127¼—4	Locks	$1.00
No. 4238 —7	Locks	1.75
No. 4349¼—7	Locks	1.75
No. 4130 —4	Locks	1.00
Fifth Row		**Retails at 50c Each**
No. 04010½—2	Locks	$1.00
No. 04112 —2	Locks	1.00
No. 04301 —2	Locks	1.00
No. 04108 —2	Locks	1.00
		$18.70

7½ Dozen Padlocks, the Retail Value of which is $18.70

COMPARATIVE LIST OF CABINET LOCKS

Corbin	Eagle	Yale
92	43	SA22
30	181	SA1
32	64	S2
34	166	S4
36	160	S6
D46	01896	SA296
47½C	1084C	S208
78	1081	S185
80	583	S82
82	219	S83
88	1077	S89
89	1079	S90
100	471	S110
102	467	S112
104	427	S114
106	410	S117
0117	6087	
0142P	02126¹₂	SA162
0144P	60715	SA164
0146P	90691½	SA166
0170	03001	521
0238	1958	PA96
301	1881	P160
308	1888	P184
310	473	P171
450	583	R100
452	454	R101
454	660	R104
456	657	R105
Corbin	Eagle	Yale
526	2187	R620
526B	2188	R621
582	0180711½	R381
582X	0180711½	R381
587H	01848 L	C272
589H	02207	
590	6090	R295
6090	6090	RA295
5901½	2157	R2941½
5901½C	02157	UA2941½
5901½	19211½	R290
5901½	01921½	RA290
5911½	1986½	R290
5921½	1816	A300
5921½	01816	RA300
622	71	R462
626	72	R466
634	161	R474
0665	03201	5550-3
0665½	02271	5561S
0676	01901	SA395
0676½	01901½	RA395S
0676	01902	RA396
0685	03209	561
0685½	03279	561S
699	1845	R390
699B	01848	RA380
701B	18753¼	W23¼
701½B	18753¼A	W23¼KA
Corbin	Eagle	Yale
702S	4151½	W31½
702½B	4151¾A	W31¾KA
704	510	W7
704½	5101½	W7KA
718	1305	W34
719	1801	W36
723	156	W44
734	2282	
735	2284	
736	2285	
749	1055	W100
0749	1056	WA100
0750	6085	WA102
0751	6074	WA103
755	1986	W120
803	2173	R279
0854	2001	0326
878	2152	
2001B	01891B	
2008	1945	

TRUNK LOCKS

Corbin	Eagle	Yale
01190A	08199	TS2551¾A
1193	8425	TS335½A
01257½P	84101½	TS312½A
1415	8079	TS80J
1444	8117	TS46J
1461	8099	TS64J
1484	8093	TS100J

COMPARATIVE LIST OF PADLOCKS

K.-H.-T. Co.	Yale	Corbin	Eagle	Miller
1		0995	04230	1
01			04296	01
99H	585	02865	04408	217
BB109H	903F		4404	
BB101H	905H		4405	
125		0996A	04301	125
223	223		4415	
225	225	3872		
563	563	9863		
585	585	9865		
743S	743S			
745S	745S	991		
803F	803F	9889	4405	
805F	805F	990	4407	
823	823	2971	04251	
830	830	2880A		
833	833	2972	04255	
840	840	2882A		
843	843	2973	04259	
850	850	2883A	04186	
853	853	2974	04263	
903F	903F		4404	
905F	905F		4406	
9151½		9151½	40101¼	
2900¼		2900¼	4178	
2901½		2901½	4179	18B
2902¼		2902¼	4180	19B
2903¼		2903¼	4181	21B
2879A		2879A	04279	
2880A	830	2880A	04280	
2882A	840	2882A	04282	
2883A	850	2883A	04283	
2918½		2949¼	41321¼	
4095	115J	9511¼	4095	
04227		02827	04227	215
04606		09827	04606	40
04607		03828	04607	41
04608		02829	04608	42
8434	8434			
8454	8454	2966		
9925	9465J	9925	42341¼	700B

PADLOCKS

HICKORY CYLINDER PADLOCKS

Heavy Iron Case, Genuine Bower-Barff, Rustless Dead Black Iron Finish; Extra Heavy Cast Bronze, Highly Polished, Self-Locking Spring Shackle; Shackle swings both ways; Shackle is Cast in One Piece and Broached for Keyway. Has full Five Pin Tumbler Cylinder Lock; The Mechanism is made of Brass with the exception of the Pin Tumblers, which are made of Case Hardened Steel. Two Gold Plated German Silver Keys.

		Per Dozen
No.	**BB100H**—1⅝ in. Case; **Unlimited Changes**	$20.00
No.	**BB101H**—2 in. Case; **Unlimited Changes**	22.00
No.	**BB0100H**—1⅝ in. Case; **Keyed Alike**	20.00
No.	**BB0101H**—2 in. Case; **Keyed Alike**	22.00
No.	**BB100HMK**—1⅝ in. Case. **Master Keyed**	26.00
No.	**BB101HMK**—2 in. Case; **Master Keyed**	28.00

One in a Box, Six in a Carton

Weight per Dozen, 1⅝ in. Case, 5 Lbs.; 2 in. Case, 9 Lbs.

No. BBMK—Master Keys $1.00

WITH 3 IN. POLISHED STEEL CHAIN

		Per Dozen
No.	**BB100HC**—1⅝ in. Case; **Unlimited Changes**	$32.00
No.	**BB101HC**—2 in. Case; **Unlimited Changes**	35.00
No.	**BB0100HC**—1⅝ in. Case, **Keyed Alike**	33.00
No.	**BB0101HC**—2 in. Case; **Keyed Alike**	35.00

One in a Box, Six in a Carton

Weight per Dozen, 1⅝ in. Case, 5½ Lbs.; 2 in. Case, 9½ Lbs.

HICKORY

Cast Brass Case, Highly Polished; Cast Brass, Self-Locking, Spring Shackle, Locking at Both Ends; Brass Levers, Two Nickel Plated, Heavy Steel Keys to Each Lock

		Per Dozen
No.	**99H**—2 in. Case; **Twelve Key Changes**	$7.20
No.	**999H**—2 in. Case; **Keyed Alike**	7.20

Half Dozen in a Box; Weight per Dozen 4½ Lbs.

		Per Dozen
No.	**99HC**—2 in. Case, with an 8½ in. Bright Steel **Chain Attached**	$8.40

Half Dozen in a Box; Weight per Dozen 5 Lbs.

MAPLE

Heavy Steel Case, Antique Copper Finish; Self Locking Spring Shackle, Double Locked; Brass Interior Works, Three Secure Levers; Two Nickel Plated Flat Steel Keys

		Per Dozen
No.	**77**—2 in. Case	$3.50

Half Dozen in a Box; Weight per Dozen 3⅛ Lbs.

		Per Dozen
No.	**77C**—2 in. Case, with **10 in. Chain Attached**	$4.50

Half Dozen in a Box; Weight per Dozen 4⅝ Lbs

PADLOCKS

YALE PIN-TUMBLER CYLINDERS

Extra Heavy Construction; Cast Bronze Case; Nickel Plated Steel, Self-Locking Spring Shackle; Double Locking Dogs; Five Pin Tumblers; Two Gold Plated, Nickel Bronze Paracentric Keys.

WITHOUT CHAIN

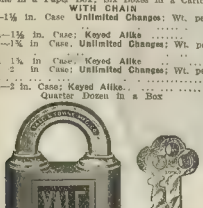
		Per Dozen
No. 830—1⅛ in. Case; **Unlimited Changes**; Wt. per Doz. 5 Lbs.		$35.00
No. 830A 1⅛ in. Case; **Keyed Alike**		35.00
No. 840 —1¾ in. Case; **Unlimited Changes**; Wt. per Doz. 9 Lbs.		40.00
No. 840A—1¾ in. Case, **Keyed Alike**		40.00
No. 850 —2 in. Case; **Unlimited Changes**; Wt. per Doz. 14 Lbs.		47.50
No. 850A—2 in Case; **Keyed Alike**		47.50

One in a Paper Box; Six Boxes in a Carton

WITH CHAIN

		Per Dozen
No. 830½—1⅛ in. Case **Unlimited Changes**; Wt. per Doz. 7 Lbs		$40.00
No. 830½A—1⅛ in. Case; **Keyed Alike**		40 00
No. 840½ —1¾ in Case, **Unlimited Changes**; Wt. per Doz. 11 Lbs		45.00
No. 840½A 1¾ in Case; **Keyed Alike**		45.00
No. 850½ 2 in Case; **Unlimited Changes**; Wt. per Doz. 16 Lbs		55.00
No. 850½A—2 in. Case; **Keyed Alike.**		55.00

Quarter Dozen in a Box



Bower-Barff Iron Case, Cast Bronze, Self-Locking Spring Shackle; Two Nickel Plated Flat Steel Keys; Four Pin-Tumblers.

WITHOUT CHAIN

		Per Dozen
No. 803F—1½ in. Case; **144 Changes**; Wt. per Doz. 5¼ Lbs.		$30.00
No. 803FA—1½ in. Case, **Keyed Alike**		30.00
No. 805F —2 in. Case; **144 Changes**; Wt per Doz. 7½ Lbs		22.00
No. 805FA—2 in Case; **Keyed Alike**		22.00

Half Dozen in a Box

WITH CHAIN

		Per Dozen
No. 803½F—1½ in. Case; **144 Changes**; Wt. per Dozen 7¼ Lbs.		$22.50
No. 803½FA—1½ in Case; **Keyed Alike.**		22.50
No. 805½F —2 in. Case, **144 Changes**; Wt. per Doz. 9½ Lbs.		25.00
No. 805½FA—2 in. Case; **Keyed Alike**		25 00

Quarter Dozen in a Box

Heavy Wrought Steel Case; Bower-Barff Finish; Nickel Plated Steel, Self-Locking Spring Shackle; Two Corrugated Steel Keys; Three Pin Tumblers.

WITHOUT CHAIN

		Per Dozen
No. 743S —1⅛ in. Case; **36 Changes**; Wt. per Doz. 3 Lbs.		$25 00
No. 743SA —1⅛ in. Case; **Keyed Alike**		25 00
No. 745S —2 in. Case; **144 Changes**; Wt per Doz. 5¼ Lbs.		30.00
No. 745SA —2 in. Case, **Keyed Alike**		30 00
No. 745SMK—2 in. Case; **Master Keyed**		35.00

Half Dozen in a Box

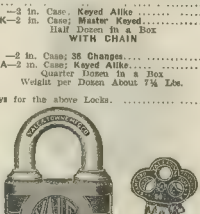
WITH CHAIN

		Per Dozen
No. 745½S —2 in. Case; **36 Changes**		$29.00
No. 745½SA—2 in. Case; **Keyed Alike**		34.00

Quarter Dozen in a Box

Weight per Dozen About 7¼ Lbs.

		Each
Master Keys for the above Locks.		$1.00



Bower Barff **Iron Case;** Cast Bronze, Self-Locking Spring Shackle; Two Nickel Bronze Corrugated Keys; Four Pin-Tumblers,

WITHOUT CHAIN

		Per Dozen
No. 903F—1½ in. Case; **144 Changes**; Wt. per Doz. 5¼ Lbs.		$31.00
No. 903FA—1½ in. Case, **Keyed Alike**		31.00
No. 905F —2 in Case; **144 Changes**; Wt. per Doz. 7 Lbs		25.00
No. 905FA—2 in Case; **Keyed Alike.**		25.00

Half Dozen in a Box

WITH CHAIN

		Per Dozen
No. 903½F —1½ in. Case; **144 Changes**; Wt. per Doz. 9 Lbs.		$27 00
No. 903½FA—1½ in. Case; **Keyed Alike.**		25.00
No. 905½F —2 in. Case; **144 Changes**; Wt. per Doz. 11 Lbs.		30.00
No. 905½FA—2 in. Case; **Keyed Alike.**		30.00

Quarter Dozen in a Box

PADLOCKS

YALE STANDARD

Cast Bronze Case, Polished Raised Surfaces, Unpolished Background; Polished Self-Locking Spring Shackle; Brass Lever Tumblers; Two Fluted Keys, Nickel-Bronze, Colned, Gold Plated Bows, to each lock.

WITHOUT CHAIN — Per Dozen

No. 823	—1¼ in. Case; **48 Changes**	$22.00
No. 833	—1½ in. Case; **48 Changes**	25 00
No. 833A	—1½ in. Case; **Keyed Alike**	25.00
No. 843	—1¾ in. Case; **72 Changes**	28.05
No. 853	—2 in. Case; **144 Changes**	31.00
No. 853A	—2 in. Case; **Keyed Alike**	31.00

Half Dozen in a Box

Weight per Dozen, 1¼ in. Case, 2 Lbs.; 1½ in. 4 Lbs.; 1¾ in. 5 Lbs.; 2 in. 6½ Lbs.

WITH CHAIN — Per Dozen

No. 833½	—1½ in. Case; **48 Changes**	$29.20
No. 833½A	—1½ in. Case, **Keyed Alike**	29 20
No. 853½	—2 in. Case, **144 Changes**	35.20
No. 853½A	—2 in. Case; **Keyed Alike**	35 20

Quarter Dozen in a Box

Weight per Dozen, 1½ in. Case, 5½ Lbs.; 2 in. Case, 8½ Lbs.

YALE MONITOR

Bower-Barffed Seamless Steel Case and Shackle; Bronze Inside Works; Self-Locking Spring Shackle; Four Lever Tumblers; Two Corrugated Steel Keys.

WITHOUT CHAIN — Per Dozen

No. 8434	—1½ in. Case; **48 Changes**	$17.50
No. 8434A	1½ in. Case; **Keyed Alike**	17 50
No. 8454	2 in. Case; **144 Changes**	29 85
No. 8454A	—2 in. Case; **Keyed Alike**	29.85

Half Dozen in a Box

Weight per Dozen, 1½ in. Case, 3½ Lbs.; 2 in. Case, 5¾ Lbs

WITH CHAIN — Per Dozen

No. 8434½	—1½ in. Case; **48 Changes**	$21 00
No. 8434½A	—1½ in. Case; **Keyed Alike**	21 00
No. 8454½	—2 in. Case; **144 Changes**	25 00
No. 8454½A	—2 in. Case; **Keyed Alike**	25 00

Quarter Dozen in a Box

Weight per Dozen, 1¼ in. Case, 7½ Lbs.; 2 in. Case, 7¾ Lbs.

Bower-Barff, Rustless Dead Black Cast Iron Case; Brass Plated, Wrought Steel Panel Sides; Brass Plated, Self-Locking Steel Shackle. Swing to Either Side; Warded; Two Flat Steel Keys

WITHOUT CHAIN — Per Dozen

No. 563	—1½ in. Case; **48 Changes**; Wt. per Doz. 3 Lbs.	$15.00
No. 563A	—1½ in. Case; **Keyed Alike**; Wt. per Doz. 3 Lbs.	15.00
No. 565	—2 in. Case; **48 Changes**; Wt. per Doz. 5 Lbs.	18.00
No. 565A	—2 in. Case; **Keyed Alike**; Wt. per Doz. 5 Lbs.	18.00

Half Dozen in a Paper Box

WITH CHAIN — Per Dozen

No. 563½	—1½ in. Case; **48 Changes**; Wt. per Doz. 5 Lbs.	$17.00
No. 563½A	—1½ in. Case; **Keyed Alike**; Wt. per Doz. 5 Lbs.	17.00
No. 565½	—2 in. Case; **48 Changes**; Wt. per Doz. 7 Lbs.	20.00
No. 565½A	—2 in. Case; **Keyed Alike**; Wt. per Doz. 7 Lbs.	20.00

Quarter Dozen in a Box

Bower-Barffed, Seamless Steel Case; Side Throw, Self-Locking Spring Shackle; Three Levers; Two Nickel Plated Flat Steel Keys.

WITHOUT CHAIN — Per Dozen

No. 223	—1½ in. Case; **6 Changes**; Wt. per Doz. 3 Lbs.	$7.00
No. 225	—2 in. Case; **6 Changes**; Wt. per Doz. 5 Lbs.	9.00
No. 225A	—2 in. Case; **Keyed Alike**	9.00

Half Dozen in a Paper Box

WITH CHAIN — Per Dozen

No. 223½	—1½ in. Case; **6 Changes**; Wt. per Doz. 5 Lbs.	$10 00
No. 225½	—2 in. Case; **6 Changes**; Wt. per Doz. 7 Lbs.	12.00
No. 225½A	—2 in. Case; **Keyed Alike**	12.00

Quarter Dozen in a Paper Box

PADLOCKS

MILLER LOCK CO.

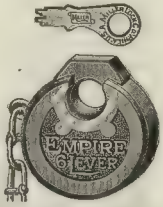
Absolutely Unequaled for Security Strength Durability

CHAMPION SIX LEVER

Heavy Cast, Hardened Gun Metal Brass Case and Self-Locking Spring Shackle; Six Positive Acting Brass Levers; Non-Pickable; All Brass Interior Parts; Gun Metal Springs; Key Way at Under Side of Lock; Positive Proof Against Rain, Sleet and Snow; Two Nickel Plated Flat Steel Push Keys; Unlimited Key Changes.

WITHOUT CHAIN		WITH CHAIN	
	Per Dozen		Per Dozen
No. 1—2¼ in. Case; Weight per Dozen 5¾ Lbs.	$9.00	No. 1XC—2¼ in. Case; Weight per Dozen 7 Lbs.	$10.00

Half Dozen in a Box



EMPIRE SIX LEVERS

Heavy Cast Brass Case and Self-Locking Spring Shackle; Six Positive Acting Brass Levers; Non Pickable; All Brass Interior Parts; Key Way at Under Side of Lock; Positive Proof Against Rain, Sleet and Snow; Two Nickel Plated Flat Steel Push Keys; 12 Key Changes.

WITHOUT CHAIN		WITH CHAIN	
	Per Dozen		Per Dozen
No. 125—2¾ in. Case; Weight per Dozen 6½ Lbs.	$7.80	No. 125XC—2¾ in. Case; Weight per Dozen 7¾ Lbs.	$9.00

Half Dozen in a Box

CHAMPION FOUR LEVER

Heavy Cast, Hardened Gun Metal Brass Case and Self-Locking Spring Shackle; Four Positive Acting Brass Levers; All Brass Interior Works; Key Way in Rim at Under Side of Lock; Positive Proof Against Rain, Sleet and Snow; Two Nickel Plated Flat Steel Push Keys; 120 Key Changes.

	Per Dozen
No. 61—1¾ in. Case; Weight per Dozen 2½ Lbs.	$6.00

Half Dozen in a Box

EMPIRE FOUR LEVER

Heavy Cast Brass Case; Self-Locking Spring Shackle, ¾ in. in Diameter and Rounded at Top; Four Positive Acting Brass Levers; All Brass Interior Parts; Key Way at Under Side of Lock; Positive Proof Against Rain, Sleet and Snow; Two Nickel Plated Flat Steel Push Keys.

	Per Dozen
No. 6125¾—1⅝ in. Case; Weight per Dozen 3½ Lbs.	$6.60

Half Dozen in a Box

PADLOCKS

With Corbin Ball-Bearing, Pin Tumbler Cylinder

Made from a Solid Block of extruded Brass Metal, Bored Out to Receive Mechanism; Nickel Plated Steel Shackle; Finely Finished; Two Nickel Silver, Gold Plated Bow Keys; No Two Locks Alike.

Nos.	2879A	2880A	2882A	2883A
Size, In.	1x⅝	1⅜x1⅝	1¾x1½	2x1½
Weight per Dozen, Lbs.	2¾	4	8½	10½
Per Dozen	$12.50	14.00	21.00	26 00

One Lock in a Box.

MASTER KEYED

Carried in Stock at Duluth

Nos.	2879¼A	2880¼A	2882¼A	2883¼A
Per Dozen	$18 00	20.00	27.00	32 00

Y. & T. LOXOL

Cast Iron Shell, Wrought Steel Sides, **Antique Copper Plated**; Copper Plated Steel, Spring Shackle, Self-Locking; **Three Wards**; Two Nickel Plated Flat Steel Keys; Six Changes.

	Per Dozen
No. 326—2¼ in. Case	$11 95

Half Dozen in a Box.
Weight per Dozen, about 10 Lbs.

RAILROAD SWITCH

Unpolished Cast Bronze Case and Self-Locking Round Spring Shackle; Brass Inside Works; Two Secure Levers; Spring Drop Over Keyhole; Two Bronze, Drilled Keys; 12 Key Changes; 9-inch Galvanized Steel Chain.

	Per Dozen
No. 04147S—2½ in. Case; Weight per Dozen 11⅝ Lbs.	$16.00
No. 04147SA—Keyed Alike, Otherwise same as No. 04147S	16.00

Half Dozen in a Box.

WAREHOUSE

2 inch Cast Bronze Case and Self-Locking Spring Shackle; Three Secure Levers; Warded, Brass Inside Works; Two Nickel Plated Flat Steel Keys; 12 Key Changes.

	Per Dozen
No. 04204—Without Chain; Weight per Dozen 5 Lbs.	$15 00
No. 04204C—With 9 in. Galvanized Chain; Weight per Doz., 6 Lbs.	16 20
No. 04204A.C.—Keyed Alike, Otherwise same as No. 04204C.	17 00

Half Dozen in a Box.

PADLOCKS

COMBINATION

Black Enameled Wrought Steel Case; Malleable Iron Self-Locking Spring Shackle; Nickel Plated; Brass Numbers and Dial, Nickel Plated. 600 Combinations; Opens at the right combination only; Can be opened in the dark as easily as in the light; Full Directions.

	Per Dozen
No. 34.—2 in. Case	$15.00

One in a Box; Weight per Dozen, 5½ Lbs.

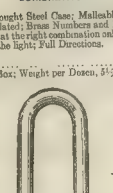
KEYLESS WONDER

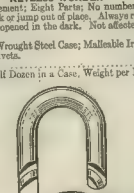
Simple and Convenient; Eight Parts; No numbers to look for; no Dues or Springs to stick or jump out of place. Always responds to correct combination. Can be opened in the dark. Not affected by water, oil or dust.

Black Enameled Wrought Steel Case; Malleable Iron Blued Shackle; Blued Knob; Brass Rivets.

	Per Dozen
No. 5—2 in. Case	$12 00

One in a Box; Half Dozen in a Case, Weight per Dozen, 4 Lbs.





JUNKUNC COMBINATION

Especially Recommended for Use on Motorcycles, Automobiles, Doors, Chests, Lockers, etc.

Made Entirely of Rolled Brass, as Neat as a Watch and Finished like a Jewel; 51,000 Combinations; Nothing to Get Out of Order; Will not Freeze and Cannot be Tampered with. Operates the same as the Lock on a Safe; the Entire Construction comprises but Five Parts. It is the Only Lock without a Spring, Rivet, Pin or Loose Part. Absolutely nothing to get out of order; Adjusted so Delicately and so Accurately that it cannot be picked. Locks on both sides of the Hasp. Only one Nut is Turned on the Dial, by one can Lock or Unlock it who knows the Combination, otherwise it cannot be opened. All parts are lubricated and fit so close that water or dampness cannot get inside to rust.

Class "A"

Used Exclusively for Motorcycles.

	Each
No. A—1¾ in. Case; ½ in. Hasp; Inside Measurements of Hasp, ⅜ in. Wide, 6⅛ in. Long	$2 00

Weight Each, 11 Oz.

Class "BB"

Especially for Ford Cars; Locks the Spark and Gas Levers; Can be Used for Other Purposes.

	Each
No. BB—1⅜ in. Case; ¼ in. Hasp, Inside Measurements of Hasp, ⅜ in. Wide, 2 in. Long	$1 35

Weight Each 5½ Oz.

Class "B"

Medium Size General Purpose Lock

	Each
No. B—1⅝ in. Case; ¼ in. Hasp; Inside Measurements of Hasp, ¼ in Wide, ⅝ in. Long	$1 15

Weight Each, 4 Oz.

Class "C"

For Use Where a Heavy Hasp is Required

	Each
No. C—1⅝ in. Case; ⅜ in. Hasp; Inside Measurements of Hasp, ⅝ in. Wide, ⅞ in. Long	$1 60

Weight Each, 7 Oz.

Class "D"

Small General Purpose Lock, for Lockers, Chests, Small Jewelry Boxes, etc.

	Each
No. D—1 ½ in. Case; ⅜ in. Hasp; Inside Measurements, ⅜ in. Wide, ⅝ in. Long	$1 00

Weight Each 2 Oz

Class "E. & F."

For All Around Purposes

1¾ **in. Case;** ⅝ in. Hasp, Inside Measurements of Hasp, ⅝ in. Wide, ¾ in. Long.

Class E and F same as Class C except as follows:

	Each
No. E Steel Case and Hasp; Working Parts and Combination Knob made of Brass; Weight 5 Oz.	$1 25
No. F Brass Case with Steel Hasp otherwise same as above; Weight 5½ Oz.	1 50

Heavy Cast Brass Case and Self-Locking Spring Shackle; Warded; Two Nickel Plated Keys; Six Key Changes.

Nos.	04610	04614
Size, In.	$1^{3}/_{4}$	$2^{1}/_{2}$
Weight per Dozen, Lbs.	$3^{1}/_{2}$	$4^{1}/_{2}$
Per Dozen	$7 00	$8 00

Half Dozen in a Box.

Heavy Cast Bronze Case and Self-Locking Spring Shackle; Two Secure Levers; Three Wards; Two Nickel Plated Flat Steel Keys; Twelve Key Changes.

No.	04408
Size, In.	2
Weight per Dozen, Lbs.	$4^{1}/_{2}$
Per Dozen	$10 00

Half Dozen in a Box.

Heavy Cast Bronze Case and Self-Locking Spring Shackle, Two Nickel Plated Corrugated Steel Keys; Six Key Changes.

	Per Dozen
No. 04381—Size 2 in.; Weight per Dozen, $4^{13}/_{16}$ Lbs.	$6 00

Half Dozen in a Box.

Heavy Iron Case, Brass Plated; Brass Plated, Malleable Iron Self-Locking Spring Shackle; Six Secure Levers; Two Nickel Plated Keys; 144 Key Changes.

	Per Dozen
No. 41081/4—Size 2 in., Weight per Dozen, $4^{1}/_{2}$ Lbs.	$11.00

Half Dozen in a Box.

PADLOCKS

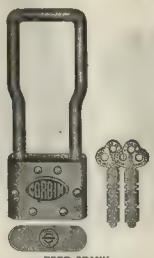
GAS LEVER LOCK

Wrought Steel Case, Black Japanned, Brass Plated, Malleable Iron Spring Shackle Two Nickel Plated Flat Steel Keys; Six Changes.

Per Dozen

No. 2953½H—1⅝ in. Case; Shackle 1⅝ in. High $2 45

One Dozen in a Box; Weight 1¼ Lbs.



FORD CRANK

Used specially for **Locking the Ford Crank to Spring,** with Crank thrown into connection which will not allow the engine to be turned over.

Heavy Cast Brass Case, Heavy Wrought Steel Nickel Plated Shackle, 3⅛ in. High, Two Nickel Plated Flat Keys; 6 Key Changes.

Per Dozen

No. 02829H—Size 2½ $11 75

Half Dozen in a Box; Wt. per Dozen, 7½ Lbs.

GAS LEVER LOCK

Specially used for Locking the Gas Lever on Ford Cars.

Cast Brass Case, Polished; Wrought Steel Spring Shackle, 1⅝ in. High; Brass Plated. Two Nickel Plated Corrugated Steel Keys, Six Key Changes.

Per Dozen

No. 02828H—Size 1⅝ in. $8.10

One Dozen in a Box, Weight 3 Lbs.

GENERAL PURPOSE

Adjustable to Any Length from 6½ to 9½ in.

Especially adapted to Motorcycles, Automobiles and Bicycles; Unpickable and Cannot Get Out of Order. Double Locking Bolts, Locking Both Sides of Shackle.

Heavy Brass Case and Shackle; Interior Parts made of Solid Brass; Two Nickel Plated Flat Steel Keys; Twelve Key Changes.

Per Dozen

No. 1063—2½ in. Case; ⅝ in. Shackle $18 00

One in a Carton; Half Dozen in a Box.

Especially Adapted for Lockers and Tool Boxes

Heavy Wrought Case and Self-Locking Spring Shackle, Brass Plated. Two Nickel Plated Flat Steel Keys.

1⅞ in. Steel Case; 5 Secure Levers

Per Dozen

No. 1960¾—12 Key Changes. $5 40

No. 1960¾D—All Key Changes Different 6.90

Weight per Dozen, 2 Lbs.

MASTER KEYED

1⅞ in. Case; 7 Secure Levers

Per Dozen

No. 1960¾MK—Steel Case; Master Keyed $8 50

No. 01960¾MK—Brass Case; Master Keyed 11.00

Weight per Dozen, 2⅞ Lbs.

All Above, One Dozen in a Box.

2 in. Heavy **Steel Case;** Heavy Cast Steel Shackle; Six Secure Levers; Two Double-Bitted Barrel Keys

Per Dozen

No. 3925—Black Japanned Case; Nickel Plated Shackle....$5.50
Weight per Dozen 4⅞ Lbs.

1½ in. Heavy **Wrought Steel Case,** Malleable Iron Self-Locking Spring Shackle; Six Secure Levers; Two Double-Bitted Barrel Keys; 12 Key Changes.

Per Dozen

No. 4374¼—Brass Plated Case and Shackle.....$4.00
Weight per Dozen About 2 Lbs.

2½ in. Extra Heavy Wrought Steel Case, all Brass Works; Malleable Iron Spring Shackle; Eight Secure Levers; Two Double Bitted Steel Keys; 12 Key Changes.

WITHOUT CHAIN

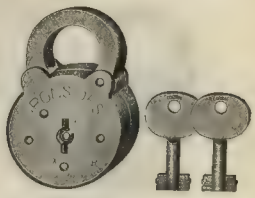
Per Dozen

No. 2916½ —**Brass Plated** Case and Shackle..... ....$ 9.50
No. 2916½G —**Galvanized** Case and Shackle..... 12.00
No. 2916½GA—**Keyed Alike,** Otherwise same as 2916½G.... 10.00
Weight per Dozen 7 Lbs.

WITH 9 INCH STEEL CHAIN.

Per Dozen

No. 2916½C —**Brass Plated** Case and Shackle.....$11.50
No. 2916½GC —**Galvanized** Case and Shackle..... 12.00
No. 2916½GCA—Keyed Alike, Otherwise same as 2916½GC 12.00
Weight per Dozen 8¾ Lbs.



WITHOUT CHAIN

2 in. Extra Heavy Steel Case, all Brass Works; Malleable Iron Spring Shackle; Six Secure Levers; Two Double Bitted Steel Keys

Per Dozen

No. 915½ —**Brass Plated** Case and Shackle.....$ 6.00
No. 915½A—Keyed Alike, Otherwise same as 915½..... 6.00
No. 915½G—Galvanized Case and Shackle..... 6.50
No. 0915½ —All Brass, Profiled finish..... 10.00
No. 0915½A—Keyed alike otherwise same as 0915½..... 10.00
Weight per Dozen 4⅞ Lbs.

WITH 9 INCH STEEL CHAIN.

Per Dozen

No. 915½C —**Brass Plated** Case and Shackle.....$ 7.50
No. 915½CA —Keyed alike otherwise same as 0915½C..1. 7.50
No. 915½GC —**Galvanized** Case and Shackle..... 8.00
No. 915½GCA—Keyed Alike, Otherwise same as 915½GC.. 8.00
No. 0915½C —All Brass, Profiled Finish..... 12.00
No. 0915½CA —**Keyed Alike,** Otherwise same as No. 0915½ 12.00
Weight per Dozen 5¾ Lbs.

Ivory Black **Wrought Steel Case;** Nickel Plated, Self-Locking, Automatic Spring Shackle that flies open to a quarter-turn position when unlocked; Two Nickel Plated, Corrugated Steel Keys; 12 Key Changes.

Per Dozen

No. 4095—3 in. Case; Weight per Dozen 3½ Lbs.....$6.00
Half Dozen in a Box

PADLOCKS

Cut Shows No. 04385

Per Dozen

No. 04387—1¼ **in. Polished Cast Bronze Case** and Self-Locking Spring Shackle; Two Flat Steel Keys; 6 Changes; Weight per Dozen, 2½ Lbs. $5 00

No. 04385—2 in **Polished Cast Bronze Case** and Self-Locking Spring Shackle; Two Nickel Plated **Flat Steel Keys**; 6 Changes; Weight per Dozen, 4½ Lbs. 7 00

No. 04267—2 in. **Cast Brass Case**; Black Nickel, Wrought Steel, Self-Locking Spring Shackle; Two Nickel Plated **Corrugated Steel Keys**; 6 Changes, Weight per Dozen, 3½ Lbs. 5 00

Half Dozen in a Box.

Polished Cast Brass Case; Nickel Plated Iron Wire, Self-Locking Automatic Spring Shackle that flies open to a quarter-turn position when unlocked. Two Nickel Plated Flat Steel Keys; 6 Key Changes.

Per Dozen

No. 04606—1¼ in. Case; Weight per Dozen, 3¾ Lbs. $4.50
No. 04607—1½ in. Case; Weight per Dozen, 4½ Lbs. 5 00
No. 04608—2 in. Case; Weight per Dozen, 5½ Lbs. 6 00

04608 One Dozen, Balance Half Dozen in a Box.

WITH 9 INCH CHAIN

Per Dozen

No. 04606C—1¼ in. Case; Weight per Dozen, 4¾ Lbs. $6.00
No. 04607C—1½ in. Case; Weight per Dozen, 5¼ Lbs. 6.50
No. 04608C—2 in. Case; Weight per Dozen, 6 Lbs. 7 50

RURAL FREE DELIVERY

Cast Bronze Case, Polished with Black Back Ground; Self-Locking, Automatic Spring Shackle, that flies open to a quarter-turn position when unlocked. Two Nickel Plated Corrugated Keys; 18 Changes; **One Master Key** Packed with Each Dozen.

Per Dozen

No. 04227 —1¼ **in.; Without Chain**; Wt. per Doz., 3½ Lbs. $5 00
No. 04227C—With 6 in. Brass Chain; Wt. per Doz., 3¾ Lbs. 6 00

One Dozen in a Box.

Japanned Steel Case, with Brass Shackle Stop on top of case; Steel Rod Nickel Plated Shackle that Flies Open to quarter-turn position when unlocked. Self-Locking; Brass Inside Works; Nickel Plated Flat Steel Corrugated Keys; 6 Key Changes.

Per Dozen

No. 206—Size 1¼ in. $5.70

Half Dozen in a Box.

Weight per Dozen, 2¾ Lbs.

JEFFERSON AUTOMOBILE IGNITION COILS

INTERCHANGEABLE WITH ANY OF THE STANDARD BATTERY IGNITION SYSTEMS

Name	Year	Model	Jefferson Coils and Fittings
Abbott	1916-17-18	6-44-8-80-6-44-6-62	R-30. Coil with R-330 Bracket
Allen	1914-19	41	C-500 Coil
Alter	1916		R-300 Coil
American	1918-19	B	A-403 Coil
Anderson	1918-19	20-400-A	C-500 Coil
Apperson	1916	8-16	D-200 Coil
Apperson	1916-19	6-16-8-16-6-17-8-17-8-18-25	R-300 Coil with R-310 Bracket
Atlas Truck	1918-19		R-300 Coil
Auburn	1915	Union Model	C-500 Coil
Auburn	1916	6-40	D-201 Coil
Auburn	1915	6-35	R-300 Coil
Auburn	1916	6-40-A	D-200 Coil with D-210 Bracket
Auburn	1916-19	6-38-6-39-4-38-39	R-300 Coil with R-330 Bracket
Auburn	1917-18	6-40-B-6-44	D-200 Coil with D-210 Bracket
Austin	1917-18-19	12-cylinder	2-D-200 Coils
Avery Tractor	1919		A-401 Coil
Bethlehem Truck	1918-19	D-E-F	A-403 Coil (12-volt)
Briscoe	1916	8-4-38	R-300 Coil with R-310 Bracket
Briscoe	1917-18-19	BA-24-4-24	C-500 Coil
Buick	1914-15	All Models	D-201 Coil
Buick	1916-19	All Models	D-200 Coil
Cadillac	1911 to 19	All Models	D-201 Coil
Case	1917	T-17	C-500 Coil
Case	Late 1919-20	V	D-202 Coil
Chalmers	1917-18-19	6-30-7	R-300 Coil with R-310 Bracket
Chalmers	1914-15-16	36-36-6-30	A-401 Coil
Chevrolet	1915 to 17	All Models	C-500 Coil
Chevrolet	1918-19	490-F-A-D	R-300 Coil with R-330 Bracket
Chevrolet Truck	1918-19		R-300 Coil with R-330 Bracket
Cole	1913 to 16	665-850	D-201 Coil
Cole	1917	860	D-200 Coil
Cole	1917	880	D-200 Coil with D-218 Bracket
Cole	1918-19	870-M	D-202 Coil
Collier Truck	1918	870-M	C-500 Coil
Columbia	1917-18-19	6-C-D	A-403 Coil
Cosmopolitan	1918-19	4-40	A-403 Coil
Crawford	1918	6	A-403 Coil
Crow-Elkhart	1915	4-cylinder	R-300 (12-volt), R-310 Bracket
Crow-Elkhart	1916-19	30-G-3-35-36-K	C-500 Coil
Cunningham	1918	B-V	D-200 Coil
Cunningham	1919		D-202 Coil
Dart Truck	1916		C-500 Coil (12-volt)
Davis	1916	C-38-6-E-6-G	D-200 Coil with 210 Bracket
Davis	1917-18-19	All Models	D-200 Coil with 218 Bracket
Detroiter	1915-16	4-cylinder	R-300 Coil with R-310 Bracket
Detroiter	1915-18	8-cylinder	R-300 Coil with R-320 Bracket
Detroiter	1916-17	645	C-500 Coil
Dispatch	1918	G	D-200 Coil with 218 Bracket
Dixie Flyer	1917-18-19	L-S-35	C-500 Coil
Dodge	1918		D-200 Coil with 212 Bracket (12 volt)
Dodge	1919		N-600 Coil
Dodge Truck	1918		D-200 Coil with 212 Bracket (12 volt)
Dodge Truck	1919		N-600 Coil
Dort	1916-19	5-A-9	C-500 Coil
Economy	1918-19	4-36-8-48	C-500 Coil
Elcar	1916-17		D-200 Coil
Elcar	1918-19	D-4, D-6	A-403 Coil
Elgin	1917-Early		D-200 Coil
Elgin	1917-18		R-300 Coil with R-310 Bracket
Elgin	Late 1919-20	H	W-700 Coil
Empire	1915-16	33	R-300 Coil with R-310 Bracket (12-volt)
Empire	1917-18-19	All Models	C-500 Coil
Enger	1915-16	6-12	A-400 or 401 Coil
Essex	1918-19		D-201 Coil
Franklin	1918-19	Series Nine	A-401 Coil (12-volt)
Gem Truck	1918		C-500 Coil (6-volt)
General Motors	1917		D-200 Coil
Grant	1914-15-16	Four and Six	A-401 Coil
Grant	1917-18-19	E-G	R-300 Coil with R-310 Bracket
Harroun	1917-18	4	A-403 Coil
Harroun	1919	A	R-300 Coil
Hatfield	1917-18-19	H-A	C-500 Coil (12-volt)
Haynes	1917-18-19	40-40-R-41-12	2-D-200 Coils with D-218 Brackets
Haynes	1915-16-19	30-36-37-34-35-38-39-44	R-300 Coil with R-310 Bracket
Highlander	1919		D-200 Coil
Holler	1916-19	8-188	A-401 Coil
Holler	1918-19	206	R-300 Coil with R-310 Bracket
Howard	1913-16	Six	A-400 or 401 Coil
Howard	1917		D-200 Coil with D-218 Bracket
Hudson	1013-15-17-18-19	54-37-6-40M6-54 and Sup. 6	D-201 Coil
Hupmobile	1915	Four	A-401 Coil (12 volt)
Hupmobile	1916	Four	A-401 Coil (6-volt)
Hupmobile	1917	Four	A-402 Coil (6-volt)
Hupmobile	1918-19	R	A-403 Coil
Imperial	1914-15	4-6	A-400 or 4-401 Coil
Interstate	1915-18	15-T-TR	R-300 Coil with R-320 Bracket
Jackson	1915	6-40	D-201 Coil
Jackson	1916	6S-3-48-34	C-500 Coil
Jackson	1917-18	394-8 cylinder	R-300 Coil with R-310 Bracket
Jeffery	1915	1515-3015	R-300 Coil with R-310 Bracket
Jordan	1918-19	60-17	D-202 Coil
King	1914-17	4-8	A-401 Coil
King	1918	EIG	A-402 Coil
King	1918-19	6-G	A-403 Coil
Kissel	1917-18	12-cylinder	2-D-200 Coils
Kissel	1917-18-19	100 Pt. 6	R-300 Coil with R-310 Bracket
Lexington	1914-15-16	4	A-400 or 401 Coil
Lexington	1916-19	6-0, 17-60, 6-R	C-500 Coil
Liberty	1917-18; Early 1919	10-B	D-200 Coil with 218 Bracket
Liberty	Late 1919		A-403 Coil
Luverne Truck		760	A-403 Coil
Loyal Truck	1918		A-403 Coil
Madison	1916-18-19	T-4-5-7-13	R-300 Coil with R-320 Bracket
Mailohm	1917	4J	A-402 Coil
Mailohm	Late 1917-18-19	4-A-B	A-403 Coil
Marion-Handley-Maxfer Truck	1917-18	6-40	A-403 Coil
Maxwell	1917-Early	Model 25	D-200 Coil
Maxwell	1917-18-19	4-25	A-403 Coil (6-volt)
Maxwell Truck	1917-18-19	4-25	A-403 Coil (12-volt)
Mitchell	1917-18	D-40-C-42	C-500 Coil
Mitchell	1918-19	D-40-C-42	R-300 Coil with R-310 Bracket
Moline Knight	1915-19	40-C-30-G-G and Co. 40-L	C-500 Coil
Monroe	1915-19	M-2-M-3-M-6	C-500 Coil
Monitor	1918-19	J-M	C-500 Coil

Kelley-How-Thomson Co. of Duluth

JEFFERSON AUTOMOBILE IGNITION COILS

INTERCHANGEABLE WITH ANY OF THE STANDARD BATTERY IGNITION SYSTEMS

Name	Year	Model	Jefferson Coils and Fittings
Moon	1917-18	6-63-6-66-45	D-200 Coil with D-218 Bracket
Moon	1918-19	6-36	D-200 Coil with D-222 Bracket
Moon	Late 1919-20	Victory	W-700 Coil
Moon	1918-19	30-C	C-500 Coil
Nash	1917		D-200 Coil
Nash	1918-19	681-671-682-683	D-202 Coil
Nash	Late 1919-20	All Models	W-700 Coil
Nash Truck	1919	2017	C-500 Coil
National	1917-18-19	A-K-12-6-12	2-D-200 Coils
Norwalk	Late 1917-18-19		D-200 Coil
Norwalk Truck			D-200 Coil
Oakland	1916	38-50-S	D-200 Coil
Oakland	1917	32-B-34	D-200 Coil with D-222 Bracket
Oakland	1918-19	34-B-32-B	R-300 Coil with R-320 Bracket
Oldsmobile	1916	4-cylinder	D-200 Coil with D-210 Bracket
Oldsmobile	1916	8-cylinder	D-200 Coil
Oldsmobile	1917-18	44-45-8 cyl.	D-200 Coil with D-218 Bracket
Oldsmobile	1917-18	37-6 cyl.	D-200 Coil with D-222 Bracket
Oldsmobile	1918-19	37-6 cyl.	R-300 Coil with R-320 Bracket
Oldsmobile	1918-19	45-8 cyl.	D-202 Coil
Olympian	1918 Early 19		C-500 Coil
Olympian	1918-Late		A-403 Coil
Overland	1916-19	All Models	C-500 Coil
Overland Truck		Panel Exp.	C-500 Coil
Packard	1916-17-18	Twin 6-2-35-3-25	2-D-200 Coils with Special Bracket
Packard	1919	3-35, 3-35	2-D-201 Coils
Paige	1916-19	6-39-46-38-46-5 39-55	R-300 Coil with R-310 Bracket
Paige	1920	6-40, 6-35	A-403 Coil
Pathfinder	1916-17		D-200 Coil
Peerless	1915	4-32, 6-48	D-201 Coil
Peerless	1916	Early Model	D-200 Coil with D-210 Bracket
Paterson	1916-19	All Models	D-200 Coil with D-218 Bracket
Peerless	1915-16-17	4-6-8-4 cyl.	A-401 Coil
Peerless	Late 1917-18-19	56-8 cyl.	A-403 Coil
Pilot	1916-19	6-45	D-200 Coil with D-218 Bracket
Premier	1916-19	6-C	D-200 Coil with D-222 Bracket
Pullman	1917		A-403 Coil
Regal	1914-17	4-S	A-400 or 401 Coil
Regal	Late 1917-18	Four	A-403 Coil
Regal	1916-17	E-D-F8- cyl.	C-500 Coil (12-volt)
Reo	1914-18-19	Five R ST. M-R-M-H-U	R-30 Coil
Reo	1920	All Models	N600 Coil-
Reo Truck	1918-19		R-300 Coil with R-310 Bracket
Saxon	1914-15-16	A-B 4 and 6	A-401 Coil
Saxon	1917	Four	A-402 Coil
Saxon	1917-18-Early-19	S-4 6 cyl.	R-300 Coil (R-310 Bracket for 1919)
Saxon	Late 1919	Y-IS	W-700 Coil
Sayers & Scoville	1918	4	D-201 Coil
Sayers & Scoville	1916	Six	D-200 Coil with D-210 Bracket
Sayers & Scoville	1917-18-19		D-200 Coil with D-218 Bracket
Scripps Booth	1916-17	G-D	R-300 Coil with R-310 Bracket
Scripps Booth	1918-19	D-G-H-D-G-39-6-40	R-300 Coil with R-320 Bracket
Seneca	1918-19	A-4-27	R-300 Coil
Simplex Tractor	1919		A-402 Coil
Sphinx	1918		C-500 Coil
Sterling Knight	1916-19	4-8 All Models	R-300 Coil with R-310 Bracket
Stephens	1917	60-65	C-500 Coil
Stephens	Late 1917-18-19	70-74	D-200 Coil with D-222 Bracket
Studebaker	1914-15	4-cylinder	R-300 Coil
Studebaker	1914-15-16	6-cylinder 4-40-6-50	R-300 Coil with R-310 Bracket
Studebaker	1916-17-18-19	SS-4-40-50-ED-6 All Models	R-300 Coil with R-310 Bracket
Studebaker	Late 1919-20	All Models	W-700 Coil
Stutz	1918-19		D-D-202 Coils
Sun	1916-17-18		R-300 Coil with R-320 Bracket
Templar	1917-18-19	443-645	R-300 Coil with R-320 Bracket
Velie	1915-16	15	A-401 Coil
Velie Biltwell	1916	15	A-401 Coil
Velie Biltwell	1916-19	22-27-28-38-38-39	R-300 Coil with R-320 Bracket
Velie	Late 1919-20	48	A 403 Coil
Velie Truck	1919	24	R-300 Coil with R-310 Bracket
Vim	1914	Truck Four	A-400 or A-401 Coil
Westcott	1916	41-51	D-200 Coil with D-210 Bracket
Westcott	1917-18	17	D-200 Coil with D-218 Bracket
Westcott	1919		D-202 Coil
Wichita Tractor	1919		A-402 Coil
Willys-Knight	1917	SS-4-SS-5	C-500 Coil
Willys-Knight	1918	88-5	R-300 Coil with R-320 Bracket
Willys-Knight	1918-19	SS-4	C-500 Coil
Willys-Sex	1918-19	SS	C-500 Coil
Woods	1917-18	Four	A-401 Coil
Woods Dual	1918	54	A-402 Coil
Yale	1917-18	M	R-300 Coil with R-320 Bracket

IGNITION COILS

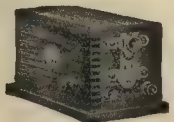
MAKE AND BREAK COILS

"Jefferson" Steel Case With Switch

Most Adaptable for Engines where they are Exposed to the Weather. Coils are Immersed in a Special Insulating Compound which renders them Impervious to Moisture and Practically Indestructible. A Hot, Intensive Spark is produced at all times at a minimum current consumption.

	Each
No. 16—Dimensions Overal., 2½x2½x6 in.	$1 75

Weight Each about 3 Lbs.



VIBRATING COILS

"Jefferson" Box Type

Highly Efficient and Extremely Economical on Battery Current. They are Designed to Answer the Most Rigid Requirements of Automobiles, Motor Boats or Stationary Gas Engines.

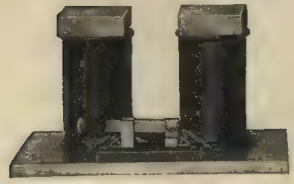
Coils are equipped with a Trouble-proof Vibrator, which is guaranteed to give satisfaction and last a lifetime. It is Absolutely Impossible to Adjust the Vibrator to Consume an Excessive Amount of Current, neither can it be Adjusted to Stop the Engine from Working.

Coils are so carefully balanced that arcing at Contact Points is Practically Impossible.

	Each
Single Cylinder, Box Type	$4 50
Double Cylinder, Box Type	9.00

REMAGNETIZERS

A Magneto needs Care just as well as the Motor. Charge the Magneto once a year.



MIDWAY

Distance Across Poles, Outside 5¼ in., Inside 1¼ in.; With Extra Pole Plates, Outside 6⅝ in., Inside 3½ in. Cores and Polished Pole Plates of Special Soft Iron. Base Plate of Black Enameled Iron.

Knife Switch with Terminals Mounted on Base.

	Each
Volts 12; Designed Amperes 7; For Magneto up to 6.6 sq. in. x13 in. Using Voltage of 6-10 Volts, and 1 sq. in.x13 in. using Voltage of 10-15 Volts	$20 00

One in a Box; Shipping Weight 13 Lbs.

FORD SPECIAL

Charges Ford Magneto without Removing from Flywheel. Distance Across Poles, Outside 2⅞ in., Inside 1⅝ in. With Extra Pole Plates, Outside 4⅝ in., Inside 3⅜ in. Cores and Yoke of Special Soft Iron.

Handle of Enameled Hardwood, with 5 ft. Double Core. Reversible Switch on Handle, for **On and Off,** as well as Reversed polarity.

	Each
Volts 6; Designed Amperes 4.8; For Magneto up to 0.5 sq. in. x 10 in. using Voltage of 4-12 Volts	$16.00

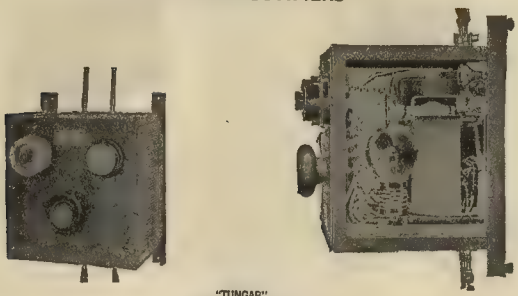
One in a Box; Shipping Weight 6½ Lbs.

Soft Iron Keeper Bar and Full Instructions with Each Instrument

Extra Pole Plates for Odd Size Magneto, Each $2.00

Resistance Bank for use with Low Volt Instruments on High Power Current, Each $5.00

Kelley-How-Thomson Co. of Duluth
CURRENT RECTIFIERS



"TUNGAR"
6-AMPERE, 75-VOLT
For Public Garages and Battery Charging Stations

This Rectifier is primarily intended for use by Public Garages and Battery Service Stations which care for Starting and Lighting Batteries used in Gasoline-Driven Automobiles.

The 6-Ampere, 75-Volt Type of Tungar Rectifier is a simple, low-priced, highly efficient charging set for the Garage or Service Station. It will charge from One to Ten 3-Cell Starting and Lighting Batteries at a 6-ampere (or lower) rate from an Alternative-Current supply.

It is new in principle and is the simplest, most inexpensive, highest-efficiency charging outfit for the purpose ever offered. It reduces the cost of charging and is so extremely simple that anyone can learn to operate it in a few minutes.

The important part of the Tungar is a small gas-filled bulb which contains a filament of tungsten and a graphite anode. This bulb screws into a socket. There is also a compensator with 16 taps, and a dial switch for adjusting the voltage to the number of batteries to be charged. A single three-coil battery may be charged by itself, or 2, 3, 4 or any number up to 10 (30 cells). The current is instantly adjustable in steps to 6 amperes.

The entire apparatus is enclosed in a perforated sheet iron casing with a japanned finish. The front of the case has a panel on which is mounted an ammeter, switch and regulating handle.

Particular attention is called to the fact that there are no live metal parts exposed.

After the two upper wires are connected to the alternating current supply and the direct current leads coming out at the bottom are connected to the battery to be charged (the batteries should be connected in series), just turn on the alternating current with the switch on the panel. The rectifier will start at once and begin charging the batteries. If the alternating current should fail the batteries cannot discharge but the Tungar will immediately resume charging when the alternating current supply returns.

NOMINAL A. C. VOLTAGE 115—VOLTAGE LIMITED 105-125

	Each
No. 193131—60 Cycles; Weight 39 Lbs. (W.H Charge 4-3 Cell Batteries)	$75.00
No. 179492—60 Cycles; Shipping Weight 81 Lbs.	130 00
No. 193648 40-50 Cycles; Shipping Weight 91 Lbs.	140.00
No. 199545—25-30 Cycles; Shipping Weight 105 Lbs	155 00
No. 206794—125-133 Cycles Shipping Weight 91 Lbs.	140 00
No. 189049—Renewal Bulbs; Shipping Weight 7 Lbs.	8.00

This 6-ampere, 75-volt Tungar Rectifier has been developed for charging a Three-Cell or a Six-Cell Automobile Starting and Lighting Battery in the Home Garage. Every Car Owner needs a Tungar to Supplement the Work of the Generator on the car — this is particularly true of the winter time, when starting is difficult, the lights are used more and the car is not taken on long trips and the generator therefore cannot properly replenish the batteries.

To charge a battery with the Tungar Rectifier, simply connect the two leads to the battery, screw the plug into the nearest lamp socket and snap on the switch. Put the charge in at night when you do not want to use your car. An all-night charge gives sure start in the morning.

The Tungar Rectifier is designed on a New Principle and has but few parts. The elements are a bulb like an incandescent lamp, a little compensator and reactance, a fuse and an Enclosing Case. The bulb will last many hundreds of hours and is easily and cheaply renewed. The complete rectifier weighs only 15 lbs., it is 10 in. high, 6¾ in. wide and 8 in. deep.

	Each
No. 195530—Tungar Rectifier Designed for 115-volt, 60-cycle Circuits, but may be used on 105 to 125-volt circuits	$28.00
No. 189048 — Renewal Bulb	8.00

TUNGAR
A Rectifier for Charging, Starting and Lighting Batteries in the Home Garage.

FOR FORD AND K. W. COILS

Used on Ford Cars

For Vibrator Points used on Fordson Tractors, and for Heavy Duty, use CC5 and CC8

CC1—Tungsten Pointed Bridge, to fit KW and Ford coils. Used opposite CC2 (4 to a set)..... Each $0.18

CC2—Tungsten Pointed Spring, to fit KW and Ford coils. Used opposite CC1. (4 to a set.) ..... Each .14

CC3—Gilfoil Pointed Bridge, large size point, to fit KW and Ford coils. Very superior quality. Used opposite CC4. (4 to a set.) (See cut CC1)..... Each .28

CC4—Gilfoil Pointed Spring, large size point, to fit KW and Ford coils. Very superior quality. Used opposite CC3. (4 to a set.) (See cut CC2.)..... Each .22

CC5—Tungsten Pointed Bridge, medium size point (see cut CC1). To fit Ford coils on Fordson Tractor. Used opposite CC6. (4 to a set.) ..... Each .38

CC6—Tungsten Pointed Spring, medium size point (see cut CC2). To fit Ford coils on Fordson Tractor. Used opposite CC5. (4 to a set.)..... Each .32

FOR CONNECTICUT DISTRIBUTOR

CC11—Timing Set Screw Wrench, case hardened (5/32 in. hexagon) to fit Models 15 and 15T ignitors ..... Each $0 16

CC12—Timing Set Screw Wrench, case hardened (1/4 in. hexagon) to fit Models 15 and 15T ignitors..... Each 16

CC13—Fibre Bushing, to fit stud on breaker plate. Models 15 and 16 ..... Each 08

CC14—Metal Stud, complete with fibre bushing, washers and cotter pin. This part used to adapt CC15 breaker lever to Model 16 (riveted type) breaker plate ..... Each 60

CC15—Tungsten Pointed Breaker Lever, to fit all models. Used opposite CC16. If lever is riveted on use in connection with CC-14..... Each 1.00

CC16—Tungsten Pointed Contact Screw, to fit all models. Used opposite CC15..... Each .30.40

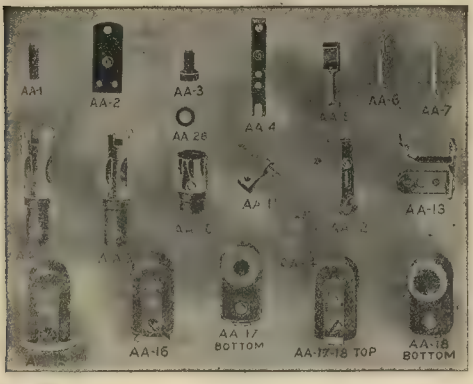
CC18—Tension Spring, to fit CC15 breaker lever..... Each .16

CC19—Distributor Rotar Arm, to fit Model M15, four- and six-cylinder. For brush to fit this part see CC17..... Each 1.00

CC20—Distributor Rotar Arm, to fit Model 15T, four- and six-cylinder..... Each .60

CC21—Distributor Rotar Arm, to fit models 16 and 16C and six-cylinder..... Each .60

DISTRIBUTOR PARTS

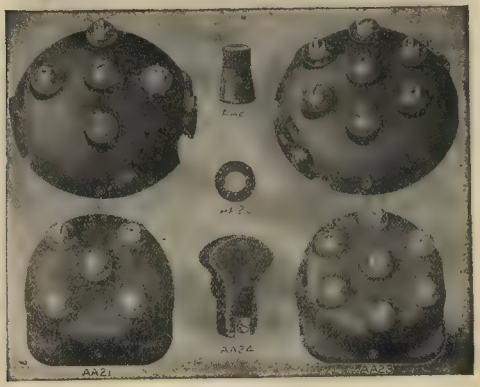


FOR ATWATER-KENT DISTRIBUTOR

	Each
AA1—Tungsten Pointed Contact Screw, to fit Type F, used opposite AA2	.80
AA2—Tungsten Pointed Contact Spring, to fit Type F, used opposite AA1	.80
AA3a—Tungsten Pointed Contact Screw, to fit Types H, K2 and K3, used opposite AA4a (see cut AA3)	.56
AA3c—Platinum Pointed Contact Screw, to fit Types H, K2 and K3, used opposite AA4c (see cut AA3)	4 50
AA4a—Tungsten Pointed Contact Spring, to fit Types H, K2 and K3, used opposite AA3a (see cut AA4)	.56
AA4c—Platinum Pointed Contact Spring, to fit Types H, K2 and K3, used opposite AA3c (see cut AA4)	4 50
AA5—Lifter, to fit Type F	.72
AA6—Lifter, to fit Type H, two- and four-cylinder, K2 and K3, two- four- and six cylinder	.32
AA7—Lifter, to fit Types K2 and K-3, right-cylinder only. (Same as AA6 with exception of bevel on notched end)	.38
AA8—Notched Shaft, to fit Types H, K2 and K3, four-cylinder	1 70
AA9—Notched Shaft, to fit Types K2 and K3, six-cylinder	1 70

	Each
AA10—Notched Shaft, to fit Types K2 and K3, eight-cylinder	$1 70
AA11—Latch, complete with stud, to fit Types H, K2 and K3	1 20
AA12—Tungsten Pointed Stationary Contact, to fit Types CC and CA, used opposite AA13	.04
AA13—Tungsten Pointed Contact Arm, to fit Types CC and CA, used opposite AA12	1 20
AA14—Lifter Spring, to fit Types H, K2 and K3	.16
AA15—Distributor Block Complete, to fit Types F, H, K2 and K3, two- and four-cylinder	.60
AA16—Distributor Block Complete, to fit Types F, K2 and K3, six-cylinder	.60
AA17—Distributor Lock Complete, to fit Type K2, eight-cylinder only	.60
AA18—Distributor Block Complete, to fit Type CC, four- and six-cylinder	.60
AA26—Shim Washer, for adjusting AA3, per 100	1 00
AA27—Distributor Block Complete, to fit Type CC, eight-cylinder only. (Same as cut AA18, with exception of longer blade)	.80

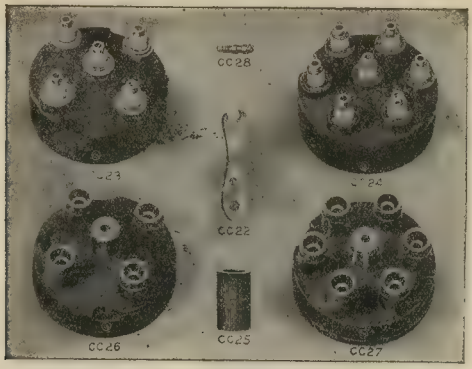
DISTRIBUTOR PARTS



FOR ATWATER-KENT DISTRIBUTOR

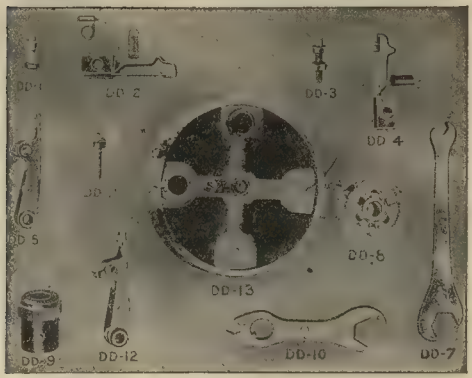
	Each
AA19—**Distributor Cap,** to fit Types K2 and K3, four-cylinder, without terminals	$0.90
AA20—**Distributor Cap,** to fit Types K2 and K3, six-cylinder, without terminals	.70
AA21—**Distributor Cap,** to fit Types CC and CA, four-cylinder, without terminals	1.00
AA22—**Distributor Terminal Nut,** to fit AA19, 20, 21 and 23	.30
AA23—**Distributor Cap,** to fit Types CC and CA, six-cylinder, without terminals	$1.20
AA24—**Distributor Block Complete,** to fit Type CA, four- and six-cylinder	.80
AA25—**Rubber Washer,** to fit terminals on AA19, 20, 21 and 23	.04
AA26—**Distributor Block Complete,** to fit Type CA, eight-cylinder only. (Same as cut AA24, with exception of longer blade.)	.80

DISTRIBUTOR PARTS



FOR CONNECTICUT DISTRIBUTOR

	Each
CC22—Wrench (case hardened), for adjusting contact screw	.50
CC23—Distributor Case, to fit Model 15T, four-cylinder	16
CC24 Distributor Case, to fit Model 15T, six-cylinder	3 50
CC25 Secondary Terminal Nut, to fit CC23 and CC24	4 00
CC26—Distributor Case, to fit Models 16 and 16C, four-cylinder	16
CC27—Distributor Case, to fit Models 16 and 16C, six-cylinder	3 20
CC28—Secondary Metal Slip Terminal Attachment, used to fasten cable in terminals on CC26 and CC27	4 00
	.08



FOR DELCO DISTRIBUTOR

	Each
DD1—Tungsten Pointed Contact Screw Assembly, used opposite DD2 and DD6	$0.80
DD3—Platinum Pointed Contact Screw Assembly, (battery side), used opposite DD4	4.40
DD4—Platinum Pointed Contact Arm Assembly (battery side), used opposite DD3	4.50
DD5—Tungsten Pointed Contact Arm Assembly, used opposite DDf	1.00
DD7—Wrench, long (case hardened), for adjusting contact screw assembly	.16
DD8—Resistance Units Assembly, early type	.36
DD2—Tungsten Pointed Contact Arm Assembly, used opposite DD1	$1.00
DD9—High Tension Terminal Nut Assembly, to fit DD19, 20, 21 and 22	.16
DD10—Wrench, short (case hardened), for adjusting contact screw assembly	.24
DD11—Tungsten Pointed Contact Screw Assembly. Same as DD1 except longer. Used opposite DD12	.80
DD12—Tungsten Pointed Contact Arm Assembly. Same as DD5 except longer fibre block. Used opposite DD11	1.00
DD13—Distributor Rotar Assembly, without metal brushes. For brush to fit this part see DD6	1.80

FOR DELCO DISTRIBUTOR

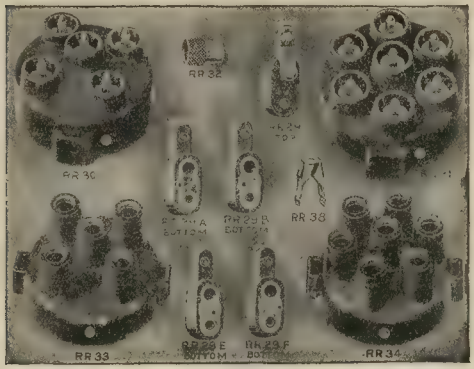
	Each
DD14—Distributor Rotar Assembly, without metal brush (round hole type). For brush to fit this part see DD8	$1 00
DD15—Distributor Rotar Assembly, without metal brush (flat side hole type). For brush to fit this part see DD9	1 00
DD16—Distributor Rotar Assembly, without metal brush. For brush to fit this part see DD6	60
DD16b—Distributor Rotar Assembly, without metal brush—see cut DD16. As used in Packard cars. Same as DD16 with exception of ¼ in. hole in end	70
DD19—Distributor Head Assembly, complete with metal plunger contact, four-cylinder. Early type. For plunger contact only to fit this part, see DD18	3 00
DD20—Distributor Head Assembly, complete with metal plunger contact, four-cylinder. For plunger contact only to fit this part, see DD18	3.00

DISTRIBUTOR PARTS

FOR REMY DISTRIBUTOR

	Each
RR6—Platinum Pointed Adjusting Screw, to fit ignition distributor. Used opposite RR7, 8 and 20 only	$4.80
RR7 Platinum Pointed Circuit Breaker Lever, with concave fibre block, to fit ignition distributor. Used opposite RR6 only	6.00
RR8 Platinum Pointed Contact Screw, short, to fit breaker lever on Models 80 and 81. Early type. Used opposite RR6 only	4.80
RR12—Tungsten Pointed Circuit Breaker Lever, large point, to fit ignition distributor. Used opposite RR13 only	1 00
RR13—Tungsten Pointed Adjusting Screw, large point, to fit ignition distributor. Used opposite RR12 only	.80
RR14—Silver Pointed Circuit Breaker Lever, large point, to fit ignition distributor. Used in conjunction with polarity switch and opposite RR15 only	$1.00
RR15—Silver Pointed Adjusting Screw, large point, to fit ignition distributor. Used in conjunction with polarity switch and opposite RR14 only	.80
RR19—Wrench, new type, (case hardened), for adjusting contact screw	.16
RR23—Platinum Pointed Circuit Breaker Lever, with raised fibre block, to fit ignition distributor Used opposite RR6 only	6 00
RR21 Distributor Segment Assembly, complete, to fit four-cylinder (Metal rotor blade, is reversible for either right or left rotation)	.00
RR22—Distributor Segment Assembly, complete, to fit six-cylinder. (Metal rotor blade, is reversable for either right or left rotation)	.00

Kelley-How-Thomson Co. of Duluth
DISTRIBUTOR PARTS



FOR REMY DISTRIBUTOR

	Each
RR23—Distributor Segment Assembly, complete, to fit eight-cylinder. (Metal rotor blade, is reversible for either right or left rotation)	$0.60
RR24—Distributor Brush Holder, Studebaker type. For brush to fit this part see RR28	.80
RR25—Cam Lifter (case hardened). Used for removing Remy cams	.24
RR26—Tungsten Pointed Circuit Breaker Lever, small point, to fit ignition distributor. Used opposite RR27 only	1.00
RR27—Tungsten Pointed Adjusting Screw, small point, to fit ignition distributor. Used opposite RR26 only	.80
RR29—Note: A, B, C, D, E and F all constructed the same with the exception of timing pin hole. (See ear guide before ordering.)	.70
RR29A—Distributor Segment Assembly, to fit four-cylinder, clockwise, tangential cam	.70
RR29B—Distributor Segment Assembly, to fit six-cylinder, clockwise, standard or tangential cam. Also to fit four-cylinder, clockwise standard cam	.70
RR29C—Distributor Segment Assembly, to fit eight-cylinder, clockwise. Same as RR29B with exception of longer blade. (See cut RR29B)	.70
RR29D—Distributor Segment Assembly, to fit eight-cylinder, counter-clock-wise. Same as RR29C with exception of longer blade. (See cut RR29E)	$0.70
RR29E—Distributor Segment Assembly, to fit six-cylinder, counter-clock-wise, standard of tangential cam. Also to fit four-cylinder, counter-clock-wise, standard cam	.70
RR29F—Distributor Segment Assembly, to fit four cylinder, counter-clock-wise, tangential cam	.70
RR30—Distributor Cap Assembly, screw terminal type, four-cylinder	4.20
RR31—Distributor Cap Assembly, screw terminal type, six-cylinder	4.80
RR32—Distributor Terminal Nut, brass, to fit RR30 and RR31	.20
RR33—Distributor Cap Assembly, plug terminal type, four-cylinder	4.20
RR34—Distributor Cap Assembly, plug terminal type, six-cylinder	4.80
RR38—Secondary Metal Slip Terminal Attachment (used to fasten cables in terminals on RR33 and RR34)	.33

WHEEL GOODS

20TH CENTURY STEEL WAGONS

Sheet steel body, beaded. Kiln dried wood bottom with cross cleats. Steel gears and wire wheels. Body enameled red outside, green inside, stenciled in gold, gears and wheels black enameled. Natural hardwood one-piece handle. Packed two in a carton.

Nos.	112	118	122	126	130	132
Size of body, inch	12x6	18x8	22x10	26x12	14x30	32x15
Diameter wheels, inch	5	6	8	10	11	11
Ship weight dozen, lbs	40	60	78	145	180	228
Per dozen	$31.50	40.00	56.75	$2.75	100.50	117.25

COASTERS

CALIFORNIA WITH STEERING WHEELS

American hardwood top boards, finished, vermilion with orange striping. Gears, red enamel. Heavy black enameled roller bearing wheels. Auto steering gear, foot rest, eyes for rope and hand brake. Packed two in a crate.

Nos.	11	11½
Size top, inch	11x32	12x40
Diameter front wheels, inch	12	14
Diameter rear wheels, inch	14	16
Weight per crate, lbs	27	35
Per dozen	$208.55	238.05

HAND CARS

GEM

Hardwood frame, 31 inches long. Wheel base, 28 inches, with seat 8x20 inches. Seat orange with red and black striping. Driving lever and frame red with black striping. Gears and wheels black enamel. Gear drive with double connecting rods. Hardwood seat, driving lever and hand grip. Packed one in a crate.

Nos.	40¾	40½
Rubber tires, inch	⅞	½
Wheels, inch	8,12	8,12
Weight, crated, lbs	28	20
Each	$16.25	17.25

GARDEN BARROWS

Pressed steel body. Half oval steel legs with cross brace. Wire wheels. Body enameled green, gold striping. Handles finished in bright yellow with black grips. Legs and wheels, black enamel, baked.

Nos.	00	0	1
Size of wheel, inch	6	8	10
Size of body, inch	9¼x6¼x5	11x8½x6	14½x11¼x7
Ship weight per dozen, lbs	30	38	45
Per dozen	$29.25	37.25	41.75

One-half dozen complete in self-contained, sealed and dust-proof carton.

VELOCIPEDES

Oval steel frame, black enameled, wheels black enameled. Stationary handle bars with hard wood grips. Vulcanized fibre saddle, round adjustable saddle post. Packed three in a case.

Equipped with Rubber Tire Wheels, ½ Inch Front, ⅝ Inch Rear.

Nos.	40 R	41 R	42 R	43 R
Front wheel, inch	14	16	20	24
Rear wheel, inch	10	12	14	16
Long leg reach, inch	17	18	20	22
Short leg reach, inch	15	16	18	20
Weight per crate, lbs	17	21	24	28
Each	$11.50	12.50	13.75	15.50

Equipped with Heavy Steel Tire Wheels.

Nos.	40	41	42	43
Front wheel, inch	14	16	20	24
Rear wheels, inch	10	12	14	16
Long leg reach, inch	17	18	20	22
Short leg reach, inch	15	16	18	20
Weight per crate, lbs	19	23	26	30
Each	$8.00	8.75	10.25	11.75

STANDARD

Oval steel frame, black enameled, adjustable handle bars with black enameled grips. Vulcanized fibre saddle over frame of stamped steel; shaped to insure the comfort of the rider. Wheels black enameled, narrow tread, easily set up. Packed three in a

Equipped with Half-inch Rubber Tire Wheels

Nos.	0 R	1 R	2 R	3 R
Front wheel, inch	14	16	20	24
Rear wheels, inch	10	12	14	16
Long leg reach, inch	19	20	22	24
Short leg reach, inch	16	17	19	21
Weight each, lbs	15	20	26	30
Each	$14.00	15.00	16.25	17.75

WHEEL GOODS

VELOCIPEDES

CRESCENT SPECIAL

Wide channel steel frame with Crescent steel brace reinforcing rear axle. Bicycle head and arched fork crown. Adjustable handle bars, adjustable stem; leather wound grips; best quality saddle, and adjustable post and spring seat. Nickel plated hub caps on rear wheels. Frame, red enamel baked, striped in orange. Handle bars, stem, saddle post and springs nickel plated. Wheels pea green, with ⅝-inch rubber tires. Packed two in a crate.

Nos.	81	82	83
Front wheel, inch	16	20	24
Rear wheels, inch	12	14	16
Long leg reach, inch	23	25	27
Short leg reach, inch	19	21	23
Weight per crate, lbs.	26	34	37
Each	$21.75	27.75	$1.00

CRESCENT BALL BEARING

Similar to Crescent Special. Front fork and rear wheels equipped with Universal annular ball bearings, permanently adjusted. Rat trap ball bearing pedals and diamond faced cranks. Frame and wheels Yale blue enamel, baked; striped in vermilion. Handle bars, cranks, pedals, saddle post, springs and hub caps nickel plated. Front and rear wheels with ¾-inch rubber tires. Packed two in a crate.

No.	92
Front wheel, inch	20
Rear wheels, inch	14
Long leg reach, inch	25
Short leg reach, inch	21
Weight per crate, lbs.	35
Each	$37.00

CLEVELAND TUBULAR

Frame made of cold rolled seamless steel tubing, joints brazed and strongly reinforced. Wheels have cold rolled steel rims, bicycle hubs, spokes and nipples. Ball bearing wheels and pedals. One-inch cushion tires. Rat trap bicycle pedals. Bicycle saddle with adjustable saddle post. Adjustable handle bars, with leather wound grips. Frame dark blue enamel, baked; handsomely striped. Handle bars, head fittings, saddle post, fork crown, hubs, spokes, nipples, cranks and pedals nickel plated. Packed one in a case.

Nos.	31	32	33
Front wheel, inch	16	20	24
Rear wheels, inch	10	14	16
Long leg reach, inch	18	20½	22½
Short leg reach, inch	16½	19½	20½
Weight per crate, lbs.	25	30	32
Each	$43.25	53.50	63.50

TRICYCLES

STANDARD

Frame black enameled, side arms and hub cap nickel plated. Wheels red with ⅝-inch rubber tires. Wide comfortable seat, upholstered in black imitation leather, adjustable to cover the requirements of girls from 3 to 9 years of age. Reversible handle, for steering or pulling, with black enameled grips. Packed one in a crate.

No.	20 R
Front wheel, inch	12
Rear wheels, inch	20
Suitable for girls, years	3 to 9
Weight per crate, lbs.	50
Each	$34.00

CLEVELAND SPECIAL

Frames red enameled with gold bronze striping. Wheels pea green, enameled, with ⅝-inch rubber tires. Wide, adjustable seats, full back upholstered in leatherette. Suspension springs. Bent steering handles, reversible, leather wound grips. Arm rests, handles and hub caps nickel plated. Packed one in a crate.

Nos.	120	118
Front wheel, inch	12	10
Rear wheels, inch	20	18
Suitable for girl, years	3 to 9	2 to 3
Weight per crate, lbs.	58	42
Each	$44.50	37.00

CLEVELAND TUBULAR

Cold rolled seamless steel tubing. Bronze joints thoroughly reinforced. Ball bearing throughout. Steel rimmed wheels, with bicycle hubs, spokes and nipples. Frames, dark blue bicycle enamel, neatly striped. Wide, adjustable seats and back, upholstered in black seal leather. Reversible steering handles. Leather wound grips. All parts nickel plated. Extra high grade 1-inch cushion tires. Packed one in a crate.

Nos.	318	324
Front wheel, inch	10	14
Rear wheels, inch	18	24
Suitable for girl, years	2 to 5	5 to 8
Weight per crate, lbs.	38	45
Each	$48.50	58.50

BICYCLE ACCESSORIES

TROUSER GUARDS

PERFECTION

Tempered spring steel, japanned. Wide pattern. Weight per dozen pairs, ¾ lb.

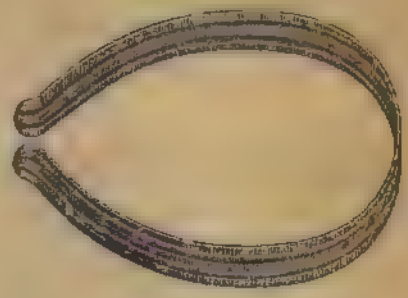
Per dozen pairs **$1.00**

Tempered spring steel, nickel plated. Wide pattern. Weight per dozen pairs, ¾ lb.

Per dozen pairs **$1.25**

Three dozen pairs in a box.

CORRUGATED



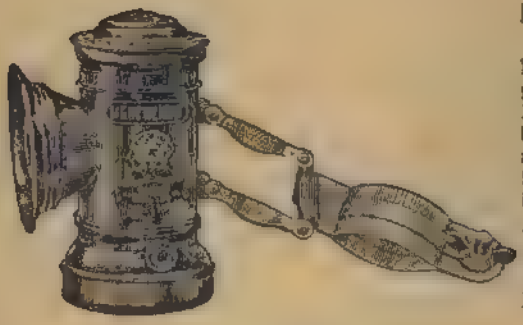
Tempered steel spring, japanned. Will not slip. Weight per dozen pairs, ¾ lb.

Per dozen pairs **$1 00**

Three dozen pairs in a box.

LAMPS

OIL



LIGHT WEIGHT

Sheet steel heavily nickel plated 2½-inch Plano convex hinged lens, green and ruby side lights, highly polished reflector.

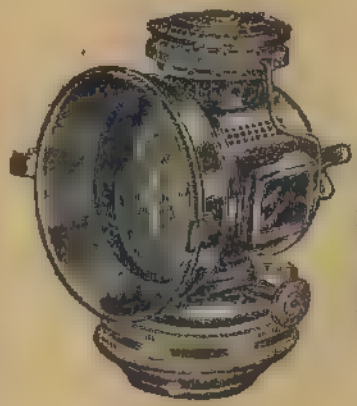
Height, inch 6
Burns hours 10
Wgt doz, lbs 11
Each $2.00

SOLAR

Brass, nickel plated, with 2⅛-inch Plano convex front lens, and ¾-inch red side jewels. Has removable aluminum reflector simple patent oil foun catch and wick lock, combination bracket to fit any head or fork.

Height, inch 6½
Burns, hours . . . 12
Weight per dozen, lbs 15
Each $2 50

20TH CENTURY



Brass nickel plated, 2¾ inch convex lens, red and green side lights.

No. 1
Height, inch 5½
Burns, hours 12
Weight each, lbs 1¼
Each $3 50

COLUMBIA GAS

Brass, nickel plated, automatic water feed, powerful double convex lens, improved fish tail type removable burner, gas valve for regulating flame, parabolic reflector and combination head bracket.

Size face, inch. 2¾
Wght each, lbs 2
Each $4.00

GAS AND CARBIDE LAMPS

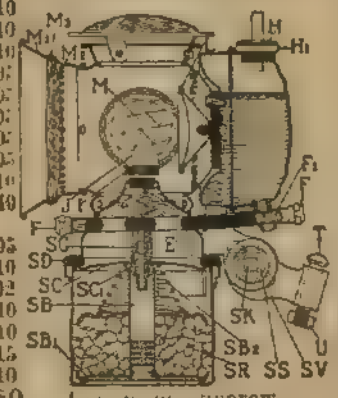
SOLAR

Cannot jar or blow out. Heavy brass, nickel plated. Has removable aluminum reflector, 2⅝-inch double convex front lens, and 1½-inch ruby and green jewel side lights. Furnished with No. 1 Shipp lamp bracket, unless otherwise specified.

No.	Solar
Height, inch	7
Burns, hours	5
Weight each, lbs.	2⅝
Each	$3.00

EXTRA PARTS FOR SOLAR

S-B	Screen tube	$0.10
S-B1	Screen tube plate	.10
S-B2	Carbide spring	.10
S-D	Rubber washer	.05
S-C	Washer plate	.05
S-C1	Washer plate nut	.05
E	Fibre wick	.05
F	Wick tube cap	.05
F1	Wick tube	.10
S-G	Water valve	.40
S-G1	Water valve washer and nut	.05
H	Filler cap	.10
H1	Filler cap washer	.02
I	Tip holder	.10
J	Tip	.10
S-K	Ratchet screw bolt	.15
L	Reflector	.10
M	Jewel, red or green	$0.15
M1	Lens door	.20
M2	Lens	.25
M3	Lens wire	.05
S-N	Bracket, complete	.75
S-O	Bracket side, R. H.	.15
S01	Bracket side, L. H.	.15
SP	Clamp screw bolt	.15



SQ	Clamp thumbscrew nut	$ .05
SR	Carbide tank	.40
SS	Rcht scw thmb nut	.05
T	Pivot bolt	.10
U	Pivot bolt nut	.05
SV	Ratchet arm	.15
W	Bracket lining	.05

LIBERTY BICYCLE GAS

Especially designed and perfected to meet the demand for a popular priced quality lamp. Is made entirely of brass, highly polished and nickel plated. Has a large finely polished reflecting surface with a 3-inch convex front lens. Complete with Shipp bracket.

Weight, about, lbs.	1¾
Each	$3.25

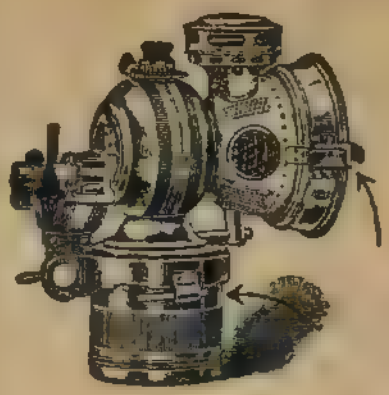
One in a carton.

SHIPP LAMP BRACKETS FOR DIRECT STEMS

Full nickel plated on copper.

No.	3
Weight per dozen, lbs.	2
Per dozen	$6.00

20TH CENTURY



All brass, nickel plated. Carbide capacity, 5 ozs; ¼-ft burner, parabolic reflector; combination head and fork bracket.

No.	2
Height, inch	7
Candle power	110
Weight each, lbs.	1¼
Each	$5.00

EXTRA PARTS FOR NO. 2

1	Front glass, clear	$0.15
2	Front glass, red	.20
3	Front glass, green	.20
4	Front glass circle wire, 3	.10
61	Lava tip with metal cap	.20
63	Aluminum reflector	.25
65	Reflector wire, 3	.10
66	Door hinge and rivets	.15
67	Door catch rivets	.20
68	Screw water stopper	.15
69	Water valve rod	.30
70	Water valve arm	.15
71	Water valve octagon nut	.15
72	Water valve leather, 3	.10
75	Felt screen cap, 3	.10
76	Gasket (embeds carbide cup)	.05
77	Washer (bottom thumb screw), 3	.10
79	Wing nut bolt for bracket	.20
80	Wing and glass	.75
81	Framed side jewels, red and green, each	.20
82	Chimney cap	.20
83	Plate and 2 screws fastens head to reservoir	.20
85	Body inc., 93, 80, 82, 83	1.50
6	Carbide chambers	.50
7	Bottomless cup	.25
88	Cloth cover tube	.20
89	Spring double disc	.20
91	Band and wing nut bolt	.50
92	Wing nut bolt for 91	.20
94	Water reservoir	1.00

BURNER TIPS

Lava Gas Lamp Tips—Will fit any make bicycle gas lamp.

Per dozen $1.80

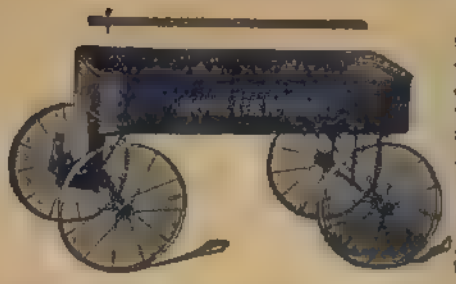
MOTORCYCLE REAR LIGHTS

Reflects the light of any overtaking vehicle. As powerful as the ordinary electric tail lamp. Made of diamond cut red glass, silvered on the back. Finished in nickel plate.

Per dozen $6.00

WHEEL GOODS

20TH CENTURY STEEL WAGONS



Sheet steel body, beaded. Kiln dried wood bottom with cross cleats. Steel gears and wire wheels. Body enameled red outside, green inside, stenciled in gold, gears and wheels black enameled. Natural hardwood one-piece handle. Packed two in a carton.

Nos.	112	118	122	126	130	132
Size of body, inch	12x6	18x8	22x10	26x12	14x30	32x15
Diameter wheels, inch	5	6	8	10	11	11
Ship weight dozen, lbs	40	60	78	145	180	228
Per dozen	$31.50	46.00	56.75	82.75	100.50	117.25

COASTERS

CALIFORNIA WITH STEERING WHEELS

American hardwood top boards, finished, vermilion with orange striping. Gears, red enamel. Heavy black enameled roller bearing wheels. Auto steering gear, foot rest, eyes for rope and hand brake. Packed two in a crate.

Nos.	11	11½
Size top, inch	11x32	12x40
Diameter front wheels, inch	12	14
Diameter rear wheels, inch	14	16
Weight per crate, lbs	27	35
Per dozen	$208.55	238.05

HAND CARS

GEM

Hardwood frame, 31 inches long. Wheel base, 28 inches, with seat 8x20 inches. Seat orange with red and black striping. Driving lever and frame red with black striping. Gears and wheels black enamel. Gear drive with double connecting rods. Hardwood seat, driving lever and hand grip. Packed one in a crate.

Nos.	40⅜	40½
Rubber tires, inch	⅜	½
Wheels, inch	8, 12	8, 12
Weight, crated, lbs	28	29
Each	$16.25	17.25

GARDEN BARROWS

Pressed steel body. Half oval steel legs with cross brace. Wire wheels. Body enameled green, gold striping. Handles finished in bright yellow with black grips. Legs and wheels, black enamel, baked.

Nos.	00	0	1
Size of wheel, inch	6	8	10
Size of body, inch	9¼x6¼x5	11x8½x8	14½x11¼x7
Ship weight per dozen, lbs	30	38	45
Per dozen	$29 25	37 25	41 75

One half dozen complete in self-contained, sealed and dust-proof carton.

VELOCIPEDES

REX

Oval steel frame, black enameled, wheels black enameled. Stationary handle bars with hard wood grips. Vulcanized fibre saddle, round adjustable saddle post. Packed three in a case.

Equipped with Rubber Tire Wheels, ½ Inch Front, ⅜ Inch Rear.

Nos.	40 R	41 R	42 R	43 R
Front wheel, inch	14	16	20	24
Rear wheel, inch	10	12	14	16
Long leg reach, inch	17	18	20	22
Short leg reach, inch	15	16	18	20
Weigh' per crate, lbs	17	21	24	28
Each	$11 50	12 50	13 75	15 50

Equipped with Heavy Steel Tire Wheels.

Nos.	40	41	42	43
Front wheel, inch	14	16	20	24
Rear wheels, inch	10	12	14	16
Long leg reach, inch	17	18	20	22
Short leg reach, inch	15	16	18	20
Weight per crate, lbs	19	23	28	30
Each	$8.00	8.75	10.25	11.75

STANDARD

Oval steel frame, black enameled, adjustable handle bars with black enameled grips. Vulcanized fibre saddle over frame of stamped steel; shaped to insure the comfort of the rider. Wheels black enameled, narrow tread, easily set up. Packed three in a case.

Equipped with Half-inch Rubber Tire Wheels

Nos.	0 R	1 R	2 R	3 R
Front wheel, inch	14	16	20	24
Rear wheels, inch	10	12	14	16
Long leg reach, inch	19	20	22	24
Short leg reach, inch	16	17	19	21
Weight each, lbs	15	20	26	30
Each	$14.00	15.00	16.25	17.75

WHEEL GOODS

VELOCIPEDES

CRESCENT SPECIAL

Wide channel steel frame with Crescent steel brace reinforcing rear axle. Bicycle head and arched fork crown. Adjustable handle bars, adjustable stem; leather wound grips; best quality saddle, and adjustable post and spring seat. Nickel plated hub caps on rear wheels. Frame, red enamel baked, striped in orange. Handle bars stem, saddle post and springs nickel plated. Wheels, pea green, with ⅝-inch rubber tires. Packed two in a crate.

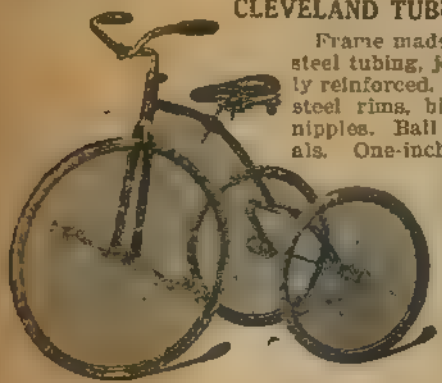
Nos.	81	82	83
Front wheel, inch	16	20	24
Rear wheels, inch	12	14	16
Long leg reach, inch	23	25	27
Short leg reach, inch	19	21	23
Weight per crate, lbs.	26	34	37
Each	$24.75	27.75	31.00

CRESCENT BALL BEARING

Similar to Crescent Special. Front fork and rear wheels equipped with Universal annular ball bearings, permanently adjusted. Rat trap ball bearing pedals and diamond faced cranks. Frame and wheels Yale blue enamel, baked; striped in vermilion. Handle bars, cranks, pedals, saddle post, springs and hub caps nickel plated. Front and rear wheels with ⅝-inch rubber tires. Packed two in a crate.

No.	
Front wheel, inch	20
Rear wheels, inch	14
Long leg reach, inch	25
Short leg reach, inch	21
Weight per crate, lbs.	35
Each	$37.00

CLEVELAND TUBULAR



Frame made of cold rolled seamless steel tubing, joints brazed and strongly reinforced. Wheels have cold rolled steel rims, bicycle hubs, spokes and nipples. Ball bearing wheels and pedals. One-inch cushion tires. Rat trap bicycle pedals. Bicycle saddle with adjustable saddle post. Adjustable handle bars, with leather wound grips. Frame dark blue enamel, baked; handsomely striped. Handle bars, head fittings, saddle post, fork crown, hubs, spokes, nipples, cranks and pedals nickel plated. Packed one in a case.

Nos.	31	32	33
Front wheel, inch	16	20	24
Rear wheels, inch	10	14	16
Long leg reach, inch	18	20¼	22¼
Short leg reach, inch	16¼	19⅛	20¼
Weight per crate, lbs.	25	30	32
Each	$41.25	53.50	63.50

TRICYCLES

STANDARD

Frame black enameled, side arms and hub cap nickel plated. Wheels red with ½-inch rubber tires. Wide comfortable seat, upholstered in black imitation leather, adjustable to cover the requirements of girls from 3 to 9 years of age. Reversible handle, for steering or pulling, with black enameled grips. Packed one in a crate.

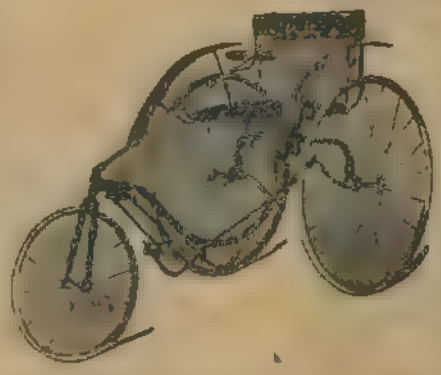
No.	20 R
Front wheel, inch	12
Rear wheels, inch	20
Suitable for girls, years	3 to 9
Weight per crate, lbs.	50
Each	$31.00

CLEVELAND SPECIAL

Frames red enameled with gold bronze striping. Wheels pea green, enameled, with ⅝-inch rubber tires. Wide, adjustable seats, full back upholstered in leatherette. Suspension springs. Bent steering handles, reversible, leather wound grips. Arm rests, handles and hub caps nickel plated. Packed one in a crate.

Nos.	120	118
Front wheel, inch	12	10
Rear wheels, inch	20	18
Suitable for girl, years	3 to 9	2 to 3
Weight per crate, lbs.	58	42
Each	$44.50	37.00

CLEVELAND TUBULAR

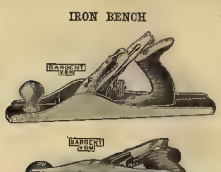


Cold rolled seamless steel tubing. Bronze joints thoroughly reinforced. Ball bearing throughout. Steel rimmed wheels, with bicycle hubs, spokes and nipples. Frames, dark blue bicycle enamel, neatly striped. Wide, adjustable seats and back, upholstered in black seal leather. Reversible steering handles. Leather wound grips. All parts nickel plated. Extra high grade 1-inch cushion tires. Packed one in a crate.

Nos.	318	324
Front wheel, inch	10	14
Rear wheels, inch	18	24
Suitable for girl, years	2 to 5	5 to 8
Weight per crate, lbs.	39	45
Each	$48.50	58.50

SARGENT PLANES

IRON BENCH



Cut shows Corrugated Bottom.

Polished trimmings, East India mahogany handle and knob. Patent side adjustment for exact adjusting of the cutter with the face of the plane.

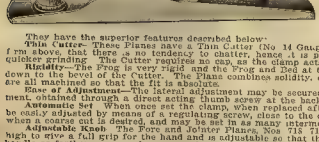
SMOOTH BOTTOM, IRON

	Length, In.	Cutter, In	Wt. Ea., Lbs.	Each.
No. 407—Smooth	7	1 ¾	2¾	$4.30
No. 408—Smooth	8	1 ¾	3 ¼	4.60
No. 409—Smooth	9	2	4 ¼	5.00
No. 410—Smooth	10	2 ⅜	5 ¾	5.80
No. 414—Jack	14	2	5 ½	5.80
No. 415—Jack	15	2 ¼	6	6.50
No. 418—Fore	18	2 ⅜	8	7.30
No. 422—Jointer	22	2 ⅜	8 ½	8.50
No. 424—Jointer	24	2 ⅜	9 ¾	10.00

CORRUGATED BOTTOM, IRON

	Length, In.	Cutter, In.	Wt. Ea., Lbs.	Each
No. 408C—Smooth	8	1 ¾	3 ¼	$5.00
No. 409C—Smooth	9	2	4 ¼	5.40
No. 410C—Smooth	10	2 ⅜	5 ¼	6.20
No. 414C—Jack	14	2	5 ½	6.20
No. 415C—Jack	15	2 ¼	6	6.90
No. 418C—Fore	18	2 ⅜	8	7.90
No. 422C—Jointer	22	2 ⅜	8 ½	9.10
No. 424C Jointer	24	2 ⅜	9 ¾	10.80

One in a paper box.



They have the superior features described below:

Thin Cutter—These Planes have a Thin Cutter (No. 14 Gauge), but the support for the Cutter is so solid below and the clamp so firm above, that there is no tendency to chatter, hence it is possible to use the Thin Cutter and so get the slight advantage of the quicker grinding. The Cutter requires no cap, as the clamp acts as a breaker for the chip.

Rigidity—The Frog is very rigid and the Frog and Bed at the mouth are in alignment so that the Cutter has an even bearing down to the bevel of the Cutter. The Plane combines solidity, compactness and simplicity. The meeting surfaces of the Frog and Bed are all machined so that the fit is absolute.

Ease of Adjustment—The lateral adjustment may be secured without removing the hand from the handle and the vertical adjustment, obtained through a direct acting thumb screw at the back of the Cutter, is positive and rapid.

Automatic Set—When once set the clamp, when replaced after removal, will always return to its original reset. The clamp may be easily adjusted by means of a regulating screw, close to the cutting edge when a fine cut be required, away from the cutting edge when a coarse cut is desired, and may be set in as many intermediate positions as may be needed.

Adjustable Knob—The Fore and Jointer Planes, Nos. 718, 718C, 722 and 722C, are equipped with an Adjustable Knob. This Knob is high to give a full grip for the hand and is adjustable so that the user may regulate the position of the Knob, bringing it closer to the handle or farther away, as may prefer. This feature makes it convenient for use by carpenters with long or short arms and allows the forward hand plenty of clearance when the Plane is used close up to a projecting surface.

Purpose—These Planes are intended for both heavy and very fine cuts. They are especially adapted for working against the grain on cross-grained hard wood where the absolute rigidity of the Cutter avoids any tendency to chatter.

Smooth Bottom

	Length, In.	Cutter, In.	Each.
No. 708—Smooth	8	1 ¾	$5.10
No. 710—Smooth	10	2	5.60
No. 714—Jack	14	2	6 90
No. 718—Fore	18	2 ⅜	8 50
No. 722—Jointer	22	2 ⅜	9 60

One in a box

WOOD BOTTOM

With Screw Adjustment and Patent Side Adjustment for exact adjusting of the Cutter with the face.

No. 3409—Length, 9 in. Cutter, 1¾ in. Weight, 3¼ lbs. ... Each, $3 30

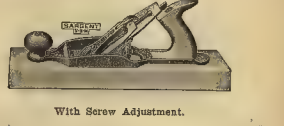
HANDLED SMOOTH

With Screw Adjustment.

No. 3411 Length, 9 in. Cutter, 2 in. Weight, 3¼ lbs.....Each, $3.80

No. 3412—Length, 10 in. Cutter, 2⅜ in. Weight, 4⅛ lbs.....Each, 4.30

JACK, FORE AND JOINTER



With Screw Adjustment.

	Length, In.	Cutter, In.	Wt. Ea., Lbs.	Each
No. 3415—Jack	15	2	4 ¼	$3.50
No. 3418—Fore	18	2 ⅜	6 ¼	4.30
No. 3424—Jointer	24	2 ⅜	7	4.60

Polished Trimmings, East India Mahogany Handle and Knob

With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane.

Sargent Adjustable Iron Planes with the Automatic Set are in a class by themselves. No other manufacturer makes a plane with so many features. The craftsman who once uses this plane will have no other. Besides its mechanical improvements it is finished with great care. The Handle and Knob are not made of the ordinary rosewood, but are made of East India Mahogany. The trimmings are polished and, in fact, the whole tool is all that can be desired

SEATTLE HARDWARE COMPANY

SARGENT PLANES

BLOCK AND RABBET

No. 2204—All Steel, 4¼ in. long; 1⅛ in. Cutter. Highly polished, light, unbreakable. Owing to its shape and size it may be carried in the mechanic's pocket. Particularly suitable for amateur work at home. Weight each, ½ lb. ..... Each, $1.50

Six in a box

No. 105—Japanned finish, 3½ in. long, 1 in. Cutter. Weight each, 6 oz. ..... Each, $0.60

Six in a box

No. 108—Adjustable, 5½ in. long. Cutter, 1⅜ in. Weight each, 1 lb. ..... Each, $1 00

One in a box

No. 107—Adjustable, 7½ in. long. Cutter, 1⅝ in. Weight each, 1½ lbs. ..... Each, $1.40

One in a box

No. 227—Double end, adjustable, 7⅝ in long. Cutter, 1⅝ in. Cutter can be reversed to other end for working in close corners. Weight each, 2 lbs. ..... Each, $2.00

One in a box

No. 206—Screw adjustment, 5½ in. long. Cutter, 1⅝ in. Weight each, 1 lb. ..... Each, $1.50

One in a box

No. 217 Screw adjustment, 7½ in. long Cutter, 1⅝ in. Weight each, 1½ lbs. ..... Each, $2.00

One in a box.

Knuckle joint, adjustable mouth, screw adjustment.

		Length.	Cutter.	Each.
No. 5306—	Nickel Trim	6 in.	1⅝ in.	$3.10
No. 5307—	Nickel Trim	7 in.	1⅝ in.	3.30

Weight each 1½ lbs.

Screw Adjustment, Adjustable Mouth.

		Length.	Cutter.	Each.
No. 308—	Polished Trim	6 in.	1⅝ in.	$2.70
No. 307—	Polished Trim	7 in.	1⅝ in.	2.90
No. 1306—	Nickel Trim	6 in.	1⅝ in.	3 00
No. 1307—	Nickel Trim	7 in.	1⅝ in	3.20

Weight each 1½ lbs.

All Steel, Polished, Low Angle, Screw Adjustment.

No. 5206—Length, 6 in. Cutter, 1⅝ in. Weight each, 1¼ lbs. ..... Each, $2.60

Low Angle. Screw Adjustment, Adjustable Mouth.

		Length	Cutter	Each
No. 606-B—	Polished Trim	6 in.	1⅝ in.	$2.90
No. 607	Polished Trim	7 in.	1⅝ in.	3.10
No. 1606—	Nickel Trim	6 in.	1⅝ in.	3.30

Weight each, 1¼ lbs

BULL-NOSE RABBET PLANE

No. 505—Japanned finish. Length, 4 in., 1 in. Cutter. Weight each, ¾ lb. ..... Each, $0.90

RABBET PLANE

With Depth Gauge and Spur, Japanned.

	Length.	Cutter	Weight	Each
No. 196	8 in.	1 in.	2½ lbs.	$3 30
No. 197	8 in	1¼ in.	2¾ lbs	3.60
No. 198	8 in.	1½ in.	3 lbs.	3.70

All above, one in a box.

SARGENT PLANES

RABBET AND FILLETSTER PLANE

With Depth Gauge and Spur and Removable Arm and Fence.

No. 78—Length, 8½ in. Cutter, 1½ in. Weight each, 3½ lbs. ..... Each, $4.20

Two seats for Cutter, making a Bull-Nose Rabbet. Arm and Fence can be placed on either side of plane, making a Right or Left-hand Filletster.

RABBET PLANE

Patent Side Adjustment. East India Mahogany handle and Knob.

	Length.	Cutter.	Each.
No. 29—Smooth Bottom	9 in.	2⅛ in.	$6.60
No. 30—Smooth Bottom	13 in.	2⅛ in.	8.00

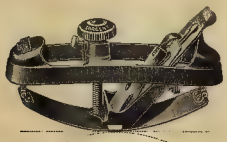
Weight No. 29, 3¾ lbs; No. 30, 4½ lbs.

ROUTER PLANE. OPEN THROAT. SCREW ADJUSTMENT

No. 62—With two Cutters ¼ and ½ inch, with extra attachment for closing throat. Nickel-plated finish. Weight each, 2½ lbs. ..... Each, $4.50

Extra—Cutters for Router Planes, ¼ and ½ in..... " .60

CIRCULAR PLANE

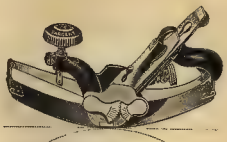


Accurately set and firmly held in position by the knob and set-screw.

No. 74—Length, 10 in. Cutter, 1¾ in. Japanned finish. Weight each, 4½ lbs. ..... Each, $10.00

All above, one in a box.

CIRCULAR PLANE



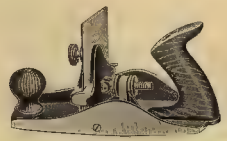
Has graduated scale. Can be accurately set to plane the arc of the same circle, both concave and convex.

No. 76—Length, 10 in. Cutter, 1¾ in. Japanned finish. Weight each, 4 lbs. ..... Each, $9.30

SCRAPER PLANES

Adjustable, polished trimmings, double mahogany handles

	Cutter.	Weight.	Each.
No. 42—Iron Face	3 in	4¾ lbs	$5.40
No. 43—Wood Face	3 in.	4¾ lbs	7.70



Adjustable, polished trimmings, Mahogany handle and Knob.

No. 59—Length, 9 in. Cutter, 3 in. Weight each, 4½ lbs. ..... Each, $5.40

Extra Cutters for Scraper Planes, 2½ and 3 in... " .50

Adjustable Iron Scraper Plane, Japanned, Beech Wood Face Adjustable at any angle.

No. 53—Face, 3½ in. Cutter, 2⅛ in. Weight each, 3½ lbs. ..... Each, $4.30

All above, one in a box.

SEATTLE HARDWARE COMPANY

SARGENT PLANES

COMBINATION

East India Mahogany Handle and Fence Plate With Screw Adjustment

No. 1080—Nickel-plated, 10¾ in. Complete with 25 Cutters in a Wooden Box. Weight each, 13½ lbs.....Each, $19 00

Combination Plane No. 1080 is designed for use in the following types of work: Dadoing, Rabbeting, Tonguеing and Grooving, Beading, Slitting and Sash Cutting. It may also be used as a Fillеtster and with special Cutters as a Reeding Plane.

The principal parts of these Planes are the Bed, Movable Bed and Fence.

The Bed supports the Handle, Cutter Adjustment, Slitting Tool and Depth Gauge.

The Bed and Movable Bed have Spur Cutters which are designed to cut the wood ahead of the Cutters (usually across the grain) at right angles to it, insuring smooth results.

The Movable Bed is used as an additional support with Cutters except the ⅜ inch and narrower.

The Fence, which is reversible for use on wide boards, is also adjustable along the Rods for either side of the Plane. It is designed for service when the Plane is used as a Fillеtster or Plow, to gauge the distance from the Cutter to the edge of the board and holding the Cutter at right angles to it.

These Planes are fitted with two Depth Gauges for regulating the depth of the cut, one located on the Bed and the other on the Movable Bed. The Depth Gauge on the Bed may be raised or lowered by means of an adjusting nut.

The Slitting Cutter is provided with a stop to regulate the depth of the slitting cut.

For Beading or Grooving on the edge of a tongued board where there is not room for the Fence, an Adjustable Guide is provided, replacing the Depth Gauge.

No. 1080 is packed with 25 Cutters, as follows:

Dado Cutters—⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞ in.

Rabbet and Fillеtster Cutter—1½ in.

Beading Cutters—⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ in.

Sash Cutter—1½ in.

Sash Cutter (Reverse of No. 21)—1½ in.

Tonguеing Cutters—¼, 5/16 in.

Slitting Cutter—

East India Mahogany Handle and Fence Plate With Screw Adjustment

No. 1085—Nickel-plated, 10¾ in. Complete with 54 Cutters in a Wooden Box. Weight each, 16 lbs.....Each, $35 40

Combination Moulding Plane No. 1085 will do all the work for which No. 1080 is suitable: Dadoing, Rabbeting, Tonguеing and Grooving, Beading, Slitting and Sash Cutting. It may also be used as a Fillеtster and as a Reeding Plane, and is also adapted for Matching, making Hollows and Rounds, and a variety of Mouldings, including Ogee (Reverse, Roman and Grecian) and Quarter Round.

These Planes include all of the parts of No. 1080, with the exception of the Fence and Movable Bed, which are not required as No. 1085 has a Fence and Movable Bed with a greater variety of adjustments.

The Bed supports the Handle, Cutter Adjustment, Slitting Tool and Depth Gauge.

The Bed and Movable Bed have Spur Cutters which cut the wood ahead of the Cutter (usually across the grain) at right angles, insuring smooth results.

The Movable Bed is used as an additional support for Cutters except on ⅜ inch and narrower.

No. 1085 has two Adjustable Fences, one for use on wide boards, which is reversible, and the other is especially adapted for fine work. Both Fences are designed for convenient use when the Plane is required as a Fillеtster or Plow and in chamfering and in other beveling.

These Planes are fitted with two Depth Gauges for regulating the depth of the cut, one on the Bed and the other on the Movable Bed. The Depth Gauge on the Bed may be raised or lowered by an adjusting nut.

A Stop is provided to be used in connection with the Slitting Cutter where it is desired to regulate the depth of the Slitting cut. When Reading or Grooving on the edge of a tongued board where there is not room for the Fence, an Adjustable Guide is provided.

An Adjustable Stop regulates the thickness of the shavings and eliminates the tendency of the Cutters to tear the wood when making Hollows and Rounds.

No. 1085 is packed with 54 Cutters, as follows:

Dado Cutters—⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞ in
Rabbet and Fillеtster Cutter—1½ in.
Reading Cutters—⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ in.
Sash Cutter—1½ in.
Sash Cutter (Reverse of No. 21)—1½ in.
Quarter Hollow Cutters—½, ⅝ in.
Quarter Round—⅝, ⅞ in.
Reverse Ogee Cutters—½, ¾, 1 in.
Roman Ogee Cutters—⅝, ⅞ in.
Quarter Round with Bead Cutters—⅝, ⅞ in.
Grecian Ogee—½, ¾, 1 in.
Round Cutter—Cuts ½ inch circle, ⅝ in
Round Cutter—Cuts 1 inch circle, ½ in.
Round Cutter—Cuts 1½ inch circle, ¾ in.
Round Cutter—Cuts 2 inch circle, 1 in.
Hollow Cutter—Cuts ½ inch circle, ¼ in.
Hollow Cutter—Cuts 1 inch circle, ½ in.
Hollow Cutter—Cuts 1½ inch circle, ¾ in.
Hollow Cutter—Cuts 2 inch circle, 1 in.

SARGENT PLANE PARTS

For Iron Planes

Number of the Parts			FOR PLANES NUMBERS									
		7,7C 407	8,8C 9 408 408C	10, 10C 14 410 410C	15 415 415C	18 418 418C	22 22C 422 422C	24, 24C 424 424C	707 707C 708 708C	710 710C	714 714C	718 718C 722 722C
1	—Single Steel Cutter	Each, $0.50	.62	.70	.70	.70	.70	.78	70	.86	1 04	
2	—Cap for Steel Cutter	"	.34	.38	.46	.46	.46	.46	.46	.....	... ..	
1 & 2	—Double Steel Cutter	"	.84	1.00	1.15	1.15	1.15	1.15	1.24	.	. . .	.. ..
3	—Cap Screw	"	.12	.12	.12	.12	.12	.12	.12	...	..	
4	—Clamp	"	.62	.62	.62	.62	.62	.62	.62	.62	.78	92
5	—Clamp Screw	"	.10	.10	.10	.10	.10	.10	.10	.10	.12	14
6	—Frog Complete	"	.84	.84	.84	.84	.84	.84	.84	.84	1.06	1 35
7	—Fork Adjustment	"	.24	.24	.24	.24	.24	.24	.24	....	.....	. .
8	—Brass Adjusting Nut	"	.28	.28	.28	.28	.28	.28	.28	... .		
9	—Lateral Adjustment	"	.24	.24	.24	.24	.24	.24	.24	.	. . .	. . .
10	—Frog Screw	"	.10	.10	.10	.10	.10	.10	.10	10	.12	.14
11	—Handle	"	.46	.46	.46	.46	.46	.46	.46	.46	58	.70
12	—Knob	"	.35	.35	.35	.35	.35	.35	.35	.35	.45	.54
13	—Handle Bolt	"	.30	.30	.30	.30	.30	.30	.30	30	.38	.46
14	—Knob Bolt	"	.30	.30	.30	.30	.30	.30	.30	.30	.38	46
15	—Handle Screw	"	.....	.....	.10	.10	.10	.10	.10	.10	.12	14
16	—Bottom	"	2.10	2.50	3.00	3.50	4.10	5.70	6.90	3.00	3 70	4.20
19	—Adjusting Screw	"	.10	.10	.10	.10	.10	.10	.10		.. ..	.....
20	—Double Steel Cutter with Cap Screw (Parts 1, 2, 3)	"	1.00	1.00	1.00	1.30	1.30	1.30	1.35		..	.
60	—Cast Iron Plane Knob	"	.....	.....	.38	.38	.38	.38	.38	. ...	.38	.

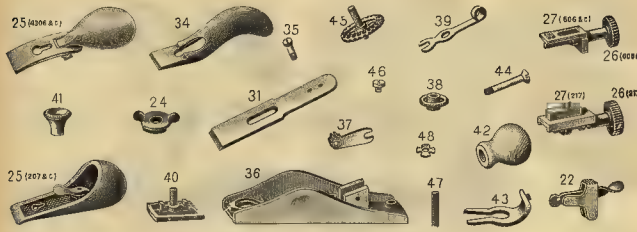
For Wood-Bottom Planes

Number of the Part			FOR PLANES NUMBERS								
			3406 3409	3410	3411	3412	3415	3416 3417	3418	3422 3424	3426
1	—Single Steel Cutter	Each,	$0.54	.62	.62	.70	.62	.70	.70	.70	.78
2	—Cap for Steel Cutter	"	.38	.38	.38	.46	.38	.46	.46	.46	.46
1 & 2	—Double Steel Cutter	"	.92	1.00	1.00	1.15	1.00	1.15	1.15	1.15	1.24
3	—Cap Screw	"	.12	.12	.12	.12	.12	.12	.12	.12	.12
4	—Clamp	"	.50	.50	.50	.50	.50	.50	.50	.50	.50
5	—Clamp Screw	"	.10	.24	.10	.10	.10	.10	.10	.10	10
6	—Frog Complete	"	.78	.78	.78	.78	.78	.78	.78	.78	.78
7	—Fork Adjustment	"	.24	.24	.24	.24	.24	.24	.24	.24	.24
8	—Brass Adjusting Nut	"	.28	.28	.28	.28	.28	.28	.28	.28	.28
9	—Lateral Adjustment	"	.24	.24	.24	.24	.24	.24	.24	.24	.24
10	—Frog Screw	"	.10	.10	.10	.10	.10	.10	.10	.10	.10
11	—Handle	"	.. ..		30	.30	.30	.30	.30	.30	.30
12	Knob	"	.28	.28	.28	.28	.28	.28	.28	.28	.28
13	—Handle Bolt	"	.. .	.. ..	.30	.30	.30	30	.30	.30	.30
14	Knob Bolt	"	.30	.30	.30	.30	.30	.30	.30	.30	.30
17	—Bottom	"	1.00	1.00	1.00	1.24	1.24	1.24	1.70	2.10	2.10
18	—Top Casting	"	.50	.50	.50	.50	.50	.50	.50	.50	.50
20	Double Steel Cutter, with Cap Screw (Parts 1, 2 & 3)	"	1 06	1.12	1 12	1.28	1.12	1.28	1.28	1.28	1.35

In ordering specify the number of the Part and the number of the Plane for which the Part is wanted.

SEATTLE HARDWARE COMPANY

SARGENT PLANE PARTS



For Block and Miscellaneous Planes

No. of the Part		FOR PLANES NUMBERS 104	103	106	107	206	207	208	217	227	505
18—Top Casting	Each,	..	..	..	...	..	....	... ...	. ...	.....	.38
22—Adjusting Lever	"	.	. .	.	. ..	.....	.24	.....	.	.... .	..
25—Clamp	"		..			.....	.38	.....	.38	.	. ...
26—Adjusting Screw	"				..	.	.. ...	. ..	.24	.... .	. ....
27—Slide	"		. ..		.... .	.	.....	. ....	16	... ..	...
31—Steel Cutter	"	$0.18	18	.24	.30	.24	.30	.30	.30	.30	.24
34—Clamp	"	.10	.10	.24	.24	.24	.. ..	.24	... ..	.24	.24
35—Clamp Screw	"	.08	.08		.. . .	..	.08	. ....	.08	.....	.08
36—Bottom	"	.24	30	.38	62	.46	78	.78	.78	84	.38
37—Adjusting Lever	"			. ..	.	.12		12	... ..	.	.. ..
38—Adjusting Nut	"		.. .		.... ..	.24	.. ....	.24	..	. ....	.
41—Knob	"	.	... .	.	.24	. .	.24	.24	.24	.24	.....
45—Wheel	"		.	24	24	.24	.... ..	.24	. ...	.24	. ....
47—Headless Machine Screw	"		. ..	.	..	.08	.....	.08		.. ..	. ....

For Block and Miscellaneous Planes

Number of the Part		FOR PLANES NUMBERS 306	307	316	317	507	606	607	1306 5306	1207 5207	1606	2204	5206
24—Clam	Each,	$0.16	16	.16	.16	. .	.16	.16	.16	.16	.16	....	.
25—Clamp	"	38	.38	.38	.38	.46	.38	38	.46	.46	.46	.30	46
26—Adjusting Screw	"	...	....		.	.38	.24	.24		....	.24	.38	.38
27—Slide	"	... ..				24	.16	.16		.....	.16	. . .	
31—Steel Cutter	"	.38	38	.38	.38	.54	.38	.38	.38	.38	.38	.24	.38
35—Clamp Screw	"	.08	.08	.08	08	.08	08	08	.08	08	08	.08	..
36—Bottom	"	1.70	1 90	1.70	1.90	1.70	1.70	1.90	1.70	1.90	1.70	.46	1.90
37—Adjusting Lever	"	.12	.12	12	.12	. .	.... ..		.12	12	. .	. ...	.. .
38—Adjusting Nut	"	.24	.24	.24	24	.		. ..	.24	.24	.	. ..	.. .
39—Lateral Adjustment	"	.24	.24	.24	.24	. ..	...		24	.24	. ....		
40—Mouth Piece	"	24	.24	.24	.24	.	24	.24	.24	.24	24	... .	.
41—Knob	"	.24	.24	.24	24	24	.24	24	.24	.24	24	.. ..	.
42—Knob Handle	"	..	. ..	.30	.30		. .	..	. .	. .	.	. .	..
43—Handle Casting	"	...	. .	24	.24	. .		.	..	. . .	.	.....	
44—Handle Screw	"			08	.08	.	.. ..	.	.	..	.. .	..	.. ...
45—Clamp Set Screw	"	.....	.	. .	.	..	. ....	....	.....	.. ..	.....	.24	.08
46—Fillister Head Screw	"	08	.08	08	08	.	.		.08	.08	.. ..		.. .
47—Headless Machine Screw	"	.08	.08	.08	.08		.	. .	08	08	. .	.. ..	. ..
48—Cog Nut	"	..		.08	.08	.			....	.. .	.	.. ..	.

In ordering specify the number of the Part and the number of the Plane for which the Part is wanted.

PILOT BRAND PLANES

Pilot Planes are the result of careful study of all minor details, as well as the principal features, that from the carpenter's point of view, make a perfect plane.

The rich cherry finish of the Handle and Knob, combined with the exceedingly smooth black Japan and high polish of the bright parts, leaves nothing to be desired in the appearance of the Tools.

CUTTERS

The highest development yet attained. Heavier than any other blade on the market, being one-tenth of an inch thick full width made of a superior, high-grade, crucible tool steel, manufactured specially for the purpose—scientifically heat treated and tempered by the most advanced process—practically non-destructible and fully warranted.

CUTTER CAP

The cap is made of high temper, cold rolled steel, and is adjustable to the cutter by means of the usual cap screw.

BOTTOM

The bottom is made of a superior, close-grained, gray iron, of high tensile strength. The surface is perfectly ground and polished.

The frog is made of the same high-grade material as is the bottom. It is well proportioned in its strong sections and is made heavier than is the usual parctice. It is fitted to the bottom of the plane by means of three points of contact, forming one single, level bearing surface a departure from the complicated double contact bearings that are not proof against shavings and dirt which get between the bearing surfaces, causing a rocking motion to the cutter and resultant chatter. The Pilot Plane will not chatter.

ADJUSTMENTS

The forward adjustment for thickness of shavings moves the cutter to a desired position by means of a yoke operated by a slot in the adjusting thumb nut which is made of brass.

The lateral adjustment lever for controlling an even thickness of shaving is made from one sinble piece of high temper, cold rolled steel, and so shaped as to make it easy to operate, and of maximum strength.

The Cutter Clamp bears directly over the arch of the cutter cap, holding the cutter firmly against the Frog, and the Adjustable Clamp screw gives any tension that may be desired.

HANDLES AND KNOBS

Made of hard wood, highly polished.

The bearing surface of the handle is exceptionally long, giving greater rigidity than found in other planes.

The shape and position with extra space in front of handle—keep the fingers from coming into contact with the steel parts (thereby preventing bruises), and gives a firm, comfortable grip, permitting long usage without cramping the hand.

The weight of the different parts of the plane has been properly proportioned. By using a highly improved mixture of close grained gray iron, giving the maximum of tensile strength, the bottom of the plane has been reduced in weight, while other parts have been increased, which insures rigidity and smoothness of operation.

SEATTLE HARDWARE COMPANY

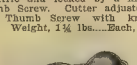
BLOCK

Low Angle

Designed for use on cross grained and hard wood.

Nickel plated and polished fittings.

No. 605—Length, 6 in. Cutter, 1⅝ in. Adjustable Throat, operated by an eccentric and locked by a knurled Thumb Screw. Cutter adjusted by long Thumb Screw with knurled head. Weight, 1¾ lbs.....Each, $2.86



Knuckle Joint

Nickel plated and polished fittings

No. 185—Length, 6 in. Cutter, 1⅝ in Adjustable Throat, operated by an eccentric and locked by a knurled Thumb Screw. Cutter adjusted by knurled Thumb Screw at back of Plane. Weight, 1½ lbs. Each, $2.86

BLOCK

Double End

A combination of Block Plane and Bull Nose Plane, having two cutter seats and slots.

No. 1305—Length, 7¾ in. Cutter, 1⅝ in. Adjustment controlled by knurled Thumb Screw. Weight, 1¾ lbs. . . . . Each, $1.72

Improved, Single End

No. 1205—Length, 7¼ in. Cutter, 1⅝ in. Adjustment simple and positive. Controlled by two knurled Thumb Screws. Weight, 2 lbs... Each, $1.66

SMOOTH

No. 445—Length, 9 in. Cutter, 2 in. Weight, 4 lbs... . . Each, $4.86

JACK

No. 455 -Length, 14 in. Cutter, 2 in. Weight, 5 lbs ...Each, $5.58

All above one in a box.

STANLEY PLANES

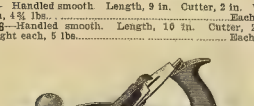
BAILEY WOOD BOTTOM BENCH

No. 22—Smooth. Length, 8 in. Cutter, 1¾ in. Weight each, 3 lbs. ..... Each, $4.40

No. 24—Smooth. Length, 8 in. Cutter, 2 in. Weight each, 3½ lbs. ..... Each, 4.65

No. 35—Handled smooth. Length, 9 in. Cutter, 2 in. Weight each, 4¾ lbs. ..... Each, $5.50

No. 36—Handled smooth. Length, 10 in. Cutter, 2⅝ in. Weight each, 5 lbs. ..... Each, 6.10



	Length, In.	Cutter, In	Weight, Lbs.	Each
No. 26—Jack	15	2	5	$4.90
No. 27½—Jack	15	2⅛	6	5 65
No. 28—Fore	18	2⅜	6¾	6 30
No. 31—Jointer	24	2⅝	8½	6.80
No. 32 Jointer	26	2⅝	9	7.20

SMOOTH BOTTOM

	Length, In.	Cutter, In.	Weight, Lbs.	Each.
No. 2—Smooth	7	1⅝	2¼	$6.00
No. 3—Smooth	8	1⅝	2½	6 30
No. 4—Smooth	9	2	3¾	6.60
No. 4½—Smooth	10	2⅜	4¾	7 50
No. 5—Jack	14	2	4¾	7.60
No. 5½—Jack	15	2⅛	6¾	9.00
No. 6—Fore	18	2⅜	7¾	9 30
No. 7 Jointer	22	2⅜	8½	11 20
No. 8—Jointer	24	2⅝	9¾	13.50

All of above one in a box.

CORRUGATED BOTTOM

	Length, In.	Cutter, In.	Weight, Lbs.	Each.
No. 3C—Smooth	8	1¾	3½	$6.80
No. 4C—Smooth	9	2	3¾	7.10
No. 4½C—Smooth	10	2⅜	4¾	8 00
No. 5C—Jack	14	2	4¾	8 00
No. 5½C—Jack	15	2⅛	6¾	9.50
No. 6C—Fore	18	2⅜	7¾	10 30
No. 7C—Jointer	22	2⅜	8½	11.80
No. 8C—Jointer	24	2⅝	9¾	14 00

All above one in a box.

BED ROCK, SMOOTH BOTTOM, IRON BENCH

No. 603 Smooth. Length, 8 in. Cutter, 1¾ in. Weight each, 3½ lbs. ..... Each, $6.80

No. 604—Smooth. Length, 9 in. Cutter, 2 in. Weight each, 3¾ lbs. ..... Each, 7 50

No. 605—Jack. Length, 14 in. Cutter, 2 in. Weight each, 4¾ lbs. ..... Each, $9.00

No. 606-F—Fore. Length, 18 in. Cutter, 2⅜ in. Weight each, 7½ lbs. ..... Each, 11 30

No. 608—Jointer. Length, 24 in. Cutter, 2⅝ in. Weight each, 9½ lbs. ..... Each, 16.70

BED ROCK, CORRUGATED BOTTOM, IRON BENCH

	Length, In.	Cutter, In.	Weight, Lbs.	Each
No. 603C Smooth	8	1¾	3½	$7.30
No. 604C—Smooth	9	2	3¾	8.00
No. 605C—Jack	14	2	4¾	9 50
No. 606C—Fore	18	2⅜	7½	11.80
No. 608C—Jointer	24	2⅝	9½	16 20

All above one in a box.

STANLEY PLANES

BLOCK AND RABBET

Non-Adjustable

No. 101—Length, 3½ in.; Cutter 1 in. Weight each, ¾ lb. .. Each, $0.60

Non-Adjustable

No. 100—Handled, length, 3½ in.; Cutter, 1 in. Weight each, ¾ lb. . .. ..Each, $1.20

Non-Adjustable

No. 102—Length 3½ in.; Cutter 1⅝ in Weight each, 1 lb.... .Each, $1.20

Lever Adjustment

No. 103—Length 5½ in.; Cutter, 1⅝ in. Weight each, 1 lb. .....Each, $1.60

Non-Adjustable

No. 110—Length, 7½ in.; Cutter, 1⅝ in. Weight each, 1 ¾ lbs.. Each, $1.50

Screw Adjustment

No. 220—Length, 7½ in.; Cutter, 1⅝ in. Weight each, 1¾ lbs....Each, $2.30

Adjustable

No. 130—Double Ender. Length, 8 in, Cutter, 1⅝ in. Weight each, 3 lbs.....Each, $2.30

Plane No. 130 has two slots, and two cutter seats. It can be used as a block Plane, or, by reversing the position of the cutter and the clamping wedge (see dotted lines in the engraving), it can be used to plane close up into corners, or places difficult to reach with any other plane.

LOW ANGLE BLOCK

Adjustable

No. 60—Nickel trimmings, length 6 in., Cutter 1⅝ in Wt. each, 2¼ lbs .. .. Each, $3.80

No. 65—Nickel trimmings, Knuckle Joint, length 7 in., Cutter 1⅝ in. Weight each, 2½ lbs .. ..Each, 4 10

No. 65½—Same as No. 65, but Japanned trimmings, ... ! ... . .Each, 3 60

BAILEY BLOCK

No. 9½—Length 6 in., Cutter 1 ⅝in., Japan trim. Weight each, 1½ lbs.....Each, $3.30

No. 15—Length 7 in., Cutter 1⅝ in., Japan trim. Weight each, 1⅝ lbs.....Each, 2.60

No. 16 Length 6 in. Cutter 1⅝ in.; Nickel trim. Weight each, 1½ lbs. ....Each, 3.70

RABBET AND BLOCK

No. 140—Detachable Side, length 7 in., Cutter 1⅝ in. Wt. each, 2 lbs. . .. . Each, $4.20

A detachable side will easily change this tool from a block plane to a rabbet plane, or vice versa. The cutter is set on a skew.

No. 18—Knuckle Joint, length 6 in., Cutter 1⅝ in. Weight each, 2¼ lbs.....Each, $3.90

No. 19—Knuckle Joint, length 7 in., Cutter 1⅝ in. Weight each, 2½ lbs.....Each, 4.20

No. 9¾—Rosewood handle, length 6 in., Cutter 1⅝ in., Japan trim. Weight each, 2½ lbs... . Each, $3 90

SIDE RABBET

No. 98—Right

No. 99—Left

No. 98—R. H. Length, 4 in. Cutter, ½ in. Weight, 1 lb. .. .. .

STANLEY PLANES

BULL-NOSE RABBET

No. 75—Iron stock. Length, 4 in. Cutter, 1 in. Weight each, 1 lb. Each, $1.20

No. 90—Nickel plated. Length, 4 in. Cutter, 1 in. Weight each, 1½ lbs. Each, $6.60

CARRIAGE MAKERS' RABBET

No. 10½—Length, 9 in. Cutter, 2⅛ in. Weight each, 4¼ lbs. Each, $8.30

No. 10—Length, 13 in. Cutter, 2⅛ in. Weight each, 5½ lbs. Each, 9.90

IMPROVED RABBET

No. 190—With Spur. Length, 8 in. Cutter, 1¼ in. Weight each, 3¼ lbs. Each, $3.80

No. 191—With Spur. Length, 8 in. Cutter, 1¼ in. Weight each, 3 lbs. Each, 3.80

DUPLEX RABBET PLANE AND FILLETSTER

No. 78—Iron stock and fence. Length, 8½ in. Cutter, 1½ in. Weight each, 4 lbs. Each, $4.60

Remove the arm to which the fence is secured, and a handled rabbet plane is had; and with two seats for the cutter, so that the tool can be used as a bull-nose rabbet if required.

The construction of the stock is such that the plane will lie perfectly flat on either side, and can be used with right or left hand equally well while planing into corners or up against perpendicular surfaces.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left-hand filletster, with adjustable spur and depth gauge.

CABINET-MAKERS' EDGE PLANE

No. 97—Length, 10 in. Cutter, 2⅛ in. Weight each, 3¾ lbs. Each, $6.60

For plane-makers and cabinet-workers. It has a cutter resting on a solid bed practically its entire length. The cutting edge being located at the extreme end of the plane gives the tool the form of a chisel. No other plane can be worked in such a small space or so close up into corners. The cutter is adjustable endwise.

IMPROVED SCRUB PLANE

No. 40—Iron stock. Length, 9 in. Cutter, 1⅜ in. Weight each, 3 lbs. Each, $3.30

This tool has a single iron, with the cutting edge rounded; and is particulary adapted for roughing down work before using a jack or other plane.

LOW ANGLE JACK PLANE

No. 62—Length, 14 in. Cutter, 2 in. Weight each, 5 lbs. Each, $8.60

This plane is especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained by the use of the ordinary block plane. The plane is fitted with patent adjustable throat, which enables the user to work equally well on hard or soft wood.

CIRCULAR PLANES

Stanley

No. 113—Adjustable japanned. Length, 10 in. Cutter, 1⅝ in. Weight each, 4 lbs. Each, $9.90

This plane has a flexible steel face, which can be easily shaped to any required arc, either concave or convex, by turning the knob on the front of the plane.

No. 20½—Victor, Japanned. Length, 10 in. Cutter, 1⅝ in. Weight each, 5 lbs. Each, $10.50

The flexible steel face of this plane can be made concave or convex, by turning the screw which is attached to its center.

All above one in a box.

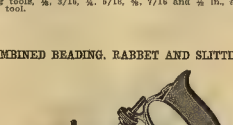
STANLEY PLANES

PLOW, BEADING AND MATCHING PLANE

No. 50—9¼ in. Nickel plated. Fifteen Cutters. Weight, 4 lbs. ..... Each, $12.50

A handy tool for light work. Consists of main stock, carrying a spur and depth gauge and forming a support for one side of the cutter, and a fence with a 2-inch adjustment. The cutters consist of 7 plow and dado bits, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾; 7 beading tools, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ in., and ¼-in. tonguing tool.

COMBINED BEADING, RABBET AND SLITTING



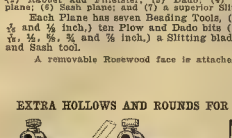
No. 45—Nickel plated, with twenty tools, bits, etc. Weight each, 10¼ lbs. ..... Each, $22.00

This plane embraces (1) Beading and Center Beading plane; (2) Rabbet and Filletster; (3) Dado; (4) Plow; (5) Matching plane; (6) Sash plane; and (7) a superior Slitting plane.

Each Plane has seven Beading Tools, (⅛, ³⁄₁₆, ¼, ⁵⁄₁₆, ⅜, 7/16 and ½ inch,) ten Plow and Dado bits (⅛, ³⁄₁₆, ¼, ⁵⁄₁₆, ⅜, ⁷⁄₁₆, ½, ⅝, ¾ and ⅞ inch,) a Slitting blade, a Tonguing tool and Sash tool.

A removable Rosewood face is attached to the fence.

EXTRA HOLLOWS AND ROUNDS FOR No. 45 PLANE

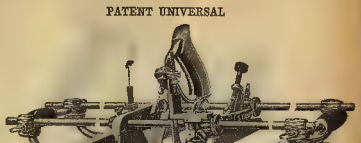


No. 44—⅝-in. round cutters, 1-in. circle ..... Per pair, $3.30
No. 45—⅝-in. round cutters, 1¼-in. circle ..... " " 3.30
No. 47—1-in. round cutters, 1¼-in. circle ..... " " 3.60
No. 54—⅝-in. hollow cutters, 1-in. circle ..... " " 3.30
No. 55—¾-in. hollow cutters, 1¼-in. circle . ..... " " 3.30
No. 57—1-in. hollow cutters, 1¼-in. circle ... .. " " 3.60

A pair constitutes one Round and one Hollow.

The Hollow and its Cutters will form a Round on the moulding being worked. A Round and its Cutters form a Hollow These are specially formed bottoms, which are substituted for the sliding section for No. 45 plane.

PATENT UNIVERSAL

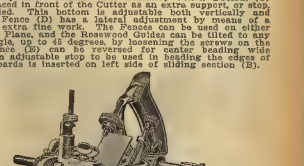


This Tool in the hands of an ordinary carpenter, can be used for all lines of work covered by a full assortment of so-called Fancy Planes.

Nickel Plated

No. 55—Stanley's Universal Plane, with 52 tools, bits, etc. Weight each, 18 lbs. ..... Each, $42.00

This Plane consists of a Main Stock (A) with two sets of Transverse Sliding Arms, a Depth Gauge (F) adjusted by a screw and a Slitting Cutter with stop, a Sliding section (B) with a vertically adjustable bottom. The Auxiliary Center Bottom (C) is to be placed in front of the Cutter as an extra support, or stop, when needed. This bottom is adjustable both vertically and laterally. Fence (D) has a lateral adjustment by means of a screw, for extra fine work. The Fences can be used on either side of the Plane, and the Rosewood Guides can be tilted to any desired angle, up to 45 degrees, by loosening the screws on the face. Fence (D) can be reversed for center beading wide boards. An adjustable stop to be used in beading the edges of matched boards is inserted on left side of sliding section (B).



As a Moulding Plane.

As a Chamfer Plane

DIRECTIONS.

MOULDING PLANE—Insert the desired Cutter, and adjust bottom of Sliding Section (B) to conform to the shape of the Cutter; then, fasten this Section firmly by means of the checknuts on the transverse arms. When needed, adjust Auxiliary Center Bottom (C) for an additional support in front of the Cutter. By tilting the rosewood guides on Fences (D and E), mouldings of various angles may be formed.

MATCH, SASH, BEADING, REEDING, FLUTING, HOLLOW, ROUND, PLOW, RABBET AND FILLETTER PLANE—Use in same manner as for Mouldings. In working Match and Sash Cutters, the Auxiliary Center Bottom (C) may be used as a step.

DADO—Remove the Fences (D and E) and set the spurs parallel with the edges of Cutter. Insert long Adjustable Stop on left hand side of Sliding Section.

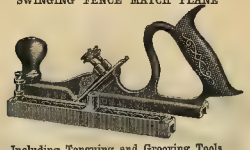
SLITTING PLANE—Insert the Cutter and Stop on right-hand side of Main Stock and use Fences (D and E) for guide.

CHAMFER—Insert the desired Cutter; fasten a Fence on each side of the Plane and tilt the rosewood guides to the desired angle.

SEATTLE HARDWARE COMPANY

STANLEY PLANES

SWINGING FENCE MATCH PLANE



Including Tonguing and Grooving Tools.

No. 48—Iron stock and fence, cuts 5/16 inch groove on ¾ to 1¼ in. boards. Weight each, 3¼ lbs.....Each, $8.30

The plane has two separate cutters, a suitable distance apart. When the guide, or fence, is set as shown, both cutters work and a tongue can be made. This fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the cutters, and also furnishes a guide for grooving an exact match for the tongue

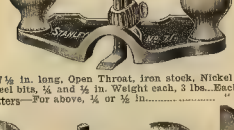
PLOW, FILLETSTER, DADO AND MATCH PLANE

Including Plow Bits, Slitting and Tonguing Tools

No. 46—10½ in. long, Nickel Plated, with eleven tools, bits, etc. Weight each, 6¼ lbs.....Each, $15.00

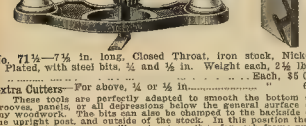
This tool is accompanied by eight plow and dado bits (3/16, ¼, 5/16, ⅜, ½, ⅝, ¾ and 1¼ in.) a filletsten cutter, a slitting tool and a tonguing tool. All except the slitting blade are secured in the main stock on a skew

WOODWORKERS' ROUTERS



No. 71—7⅛ in. long, Open Throat, iron stock, Nickel Plated, with steel bits, ⅛ and ⅛ in. Weight each, 3 lbs...Each, $6.20

Extra Cutters—For above, ¼ or ½ in..... " .60



No. 71½—7⅛ in. long, Closed Throat, iron stock, Nickel Plated, with steel bits, ¼ and ½ in. Weight each, 2½ lbs. ..... Each, $5 00

Extra Cutters—For above, ¼ or ½ in..... " 60

These tools are perfectly adapted to smooth the bottom of grooves, panels, or all depressions below the general surface of any woodwork. The bits can also be changed to the backside of the upright post, and outside of the stock. In this position they will plane into corners, will rout out mortises for sash-frame pulleys, or will smooth surfaces not easily reached with any other tool.

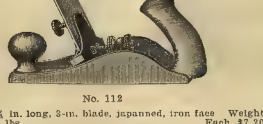
DOOR TRIM PLANE

No. 171—11 in. long, 3 Cutters (⅜, ⅝ and ⅞ in.). Weight each, 3½ lbs.....Each, $8.30

Will make mortises for butts, face plates, strike plates, escutcheons, etc., up to a depth of 5/16 and a width of 3 inches. The cutter can be instantly set to work from either end of the plane or across it. The cutter is cushioned by a spring which prevents taking a heavier chip than can be easily carried. By removing the fence it can be used as a router. An extra wooden bottom of any size can be screwed on, enabling the user to router on larger openings.

ADJUSTABLE VENEER

No. 12



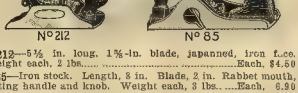
No. 112

No. 12—6¼ in. long, 3-in. blade, japanned, iron face Weight each, 4½ lbs.....Each, $7.20

No. 12½—6¼ in long, 3-in, blade, japanned, rosewood face. Weight each, 4½ lbs.....Each, 9.60

No. 112—9 in. long, 3-in. blade, japanned, iron face. Weight each, 4½ lbs.....Each, 6 30

Extra Blades—For Nos 12 and 112 (22, 28 or 32 teeth to the inch).....Each, .80



No. 212—5½ in. long, 1⅝-in. blade, japanned, iron face. Weight each, 2 lbs.....Each, $4.50

No. 85—Iron stock. Length, 8 in. Blade, 2 in. Rabbet mouth, tilting handle and knob. Weight each, 3 lbs.....Each, 6.30

Extra Blades—For No. 212 ..... " .80

The No. 12 and 112 scraper planes are used for scraping and finishing veneers or cabinet work. It can be used equally well as a touch plane, and will do excellent work in scraping off old paint and glue. With each plane is furnished a scraper blade, but an extra charge is made for each toothing cutter. No. 212 is a small scraper for fine work, such as violin-making and fine cabinet work.

All above one in a box.

FLOOR AND CABINET SCRAPERS

IRON FACE CABINET

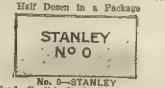
The Blades may be Sprung to a Slight Curve, by Tightening the Thumb Screw, which is of advantage in some places

	Per Dozen
No. 80—3⅝ in. Tempered Tool Steel Blade; Length Over-All 11 in.; Japanned Cast Iron Frame; Raised Handles	$12.00

One in a Box; Weight 21 Lbs. per Dozen

Extra Blades; Weight per Dozen About 1 Lb.	2.40

Half Dozen in a Package



No. 6—STANLEY

Made of High Grade English Steel; Great Care is Taken to give them a Special Temper

Size, In.	2½x8	3x4	3x5	3x8	3½x8
Weight Dozen, Lbs.	3	2	2½	3	3¾
Per Dozen	$2.50	3.50	3.00	3.00	3.50

Half Dozen in a Package

No. 2—COMMON

Standard Quality Steel; Skewed Edges; 19 Gauge

Size In.	2x6	2½x8	3x6	3½x6	4½x6	5x6
Weight Dozen, Lbs.	2	2¾	3¾	4	4¾	5	5¾
Per Dozen	$.50	.60	.70	.80	.90	1.00	1.10

One Dozen in a Box

BISHOP'S

Beveled Edge Steel Blade, 16 Gauge; Beechwood Curved Handle, Varnished Top and Bottom, with Thumb Screw

	Per Dozen
No. 2—Length Over-All 13¼ in.; 3x3 in. Blade	$4.50

Half Dozen in a Box; Weight per Dozen 9 Lbs.

Extra Blades—3x3 in., for No. 2 Scraper	2.25

Weight per Dozen About 2 Lbs.

ATKINS' PERFECTION

Malleable Iron Frame and Polished Nickel Plated Cross Bar; Adjustable, 18 Gauge, Silver Steel Blade, Highly Tempered, 4 Edges Sharpened; Polished Hardwood Handle, Brass Ferrule.

	Per Dozen
No. AP—11¾ in. Long; 2x3 in. Blade	$10.00

Half Dozen in a Box; Weight per Dozen 11 Lbs

Extra Blades—2x3 in., Silver Steel, Beveled	2.20

Weight per Dozen About 2 Lbs.

STEARNS

No Vibration; No Wavy Effects on the Floor

Intended for Use on Large Surfaces. The Knife Scrapes the Floor when the Machine is Drawn Towards the Operator: Will Work up to the Wall and Into the Corners. Knife is Firmly Clamped and Screwed Into the Scraper

	Each
No. 10—Cast Iron Frame, Aluminum Finish; Best Tool Steel Knife, 6 in. Wide, Tempered; Hardwood Handle 38½ in. Long; Rubber Tired Wheels 5 in. in Diameter	$36.00

One in a Case; Weight 100 Lbs.

STARRETT'S UNIVERSAL

All Edges Ground Square and Sharpened giving Eight Scraping Surfaces. By a Turn the Ball Joint is Frictionally Locked or Released, Bringing into use Any One of the Four Sides of Blades. The Hand Grip can be Slipped Off and On Instantly.

	Per Dozen
No. 194—3x4¼ in. Polished Steel Blade; 10 in. Handle; Rosewood Handle and Grip; Steel Ball Joint	$12.00

One in a Box; Weight per Dozen About 15 Lbs.

Extra Blades; Weight per Dozen About 2¾ Lbs.	1.80

Half Dozen in a Package

DIKEMAN

Polished, Ball and Socket Connection; Perfection Steel Hand Rest; Wood Handles Adjustable, 16 Gauge, Tempered Steel Blade.

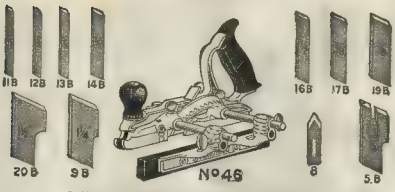
The Perfection Hand Rest provides a natural means for carrying tool back and forth and being near the Cutting Edge of blade which is rigidly held between Steel Plates prevents Chattering

	Per Dozen
No. 125—11 in. Long; 3x5 in. Blade	$15.00

One in a Box; Weight per Dozen About 26 Lbs.

FANCY PLANES

STANLEY RULE AND LEVEL CO.



PLOW, DADO, FILLETSTER AND MATCHING PLANES

Nickel Plated Frame; Rosewood Handle and Knob

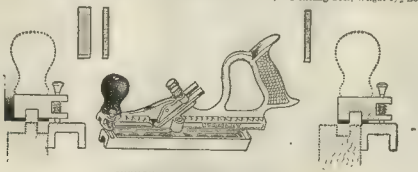
Each

No. 46—Length 10½ in., with Eight Plow and Dado Bits, 3/16, ¼, 5/16, 3/8, ½, 5/8, ¾, 1 and 1¼ in.; One Filletster Cutter, One Slitting Blade and Tonguing Tool; All (except the Slitting Blade) are Secured in the Main Stock and Set Askew; Weight, 5½ Lbs. $5 00

DADO PLANES

Each

No. 47—Same Stock as No. 46, but Used as a Dado Only; With Bits 5/16, ½, 5/8, ¾ and 1 in., and Slitting Tool, Weight 5½ Lbs. $4 00



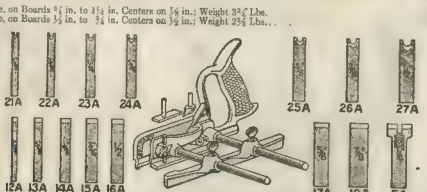
SWINGING FENCE MATCH PLANES

Iron Stock, Nickel Plated, Rosewood Knobs

This Form has Two Plow Cutters of the same width, and One Extra Wide Cutter. The Fence in One Setting Exposes Two Cutters for Cutting the Tongue, and, when reversed leaves only one exposed for Cutting the Grooves. On Thicker Boards than the Plane Works on Center, the Extra Wide Cutter is substituted for Groove Cutter when Cutting Tongue.

Each

No. 48—Cuts 3/8 Groove, on Boards ⅜ in. to 1½ in. Centers on 3/4 in.; Weight 3⅜ Lbs. $2 75
No. 49—Cuts 3/8 Groove, on Boards ½ in. to ¾ in. Centers on ½ in.; Weight 2¾ Lbs. . . 2 75



PLOW, BEADING AND MATCHING PLANE

This is a Very Handy Tool for Light Work. It Consists of a Main Stock, Carrying a Spur, a Beading Gauge and a Depth Gauge, and Forming a Support for One Side of the Cutter, a Sliding Section, Carrying a Spur and Forming a Support for the Other Side of the Cutter, and a Fence with a 5 in. Adjustment. The Handle is Metal, being a Part of the Main Stock.

The Cutters comprise 7 Plow and Dado Bits, ¼, 5/16, 3/8, ½, 5/8 and ¾ in.; 7 Beading Tools, 1/8, 3/16, ¼, 5/16, 3/8, 7/16 and ½ in.; and a ¾ in. Tonguing Tool.

Each

No. 50—9¼ in. Long, Nickel Plated, 15 Cutters; Weight 3½ Lbs. $5 00

WOOD BENCH PLANES

Beechwood Body, Superior Quality Steel Irons, Polished, Tempered and Ground

SMOOTH

Double Iron, Polished Start

	Each
No. 3—8 in. Long, Assorted 2, 2¼ and 2⅜ in. Cut	$0.90

SMOOTH, WITH HORN

Double Iron

	Each
No. 110	$1.25

JACK

Double Iron, Polished Start

	Each
No. 15—16 in. Long, Assorted 2, 2¼ and 2¼ in. Cut	$1.00

FORE

Double Iron, Polished Start

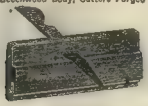
	Each
No. 21—22 in. Long, Assorted 2⅜, 2½ and 2⅝ in. Cut	$1 70

JOINTER

No. 27—Assorted 2½, 2⅝ and 2⅝ in. Double Iron, Polished Start	
Length, In	26 28
Each	$1.80 1.90

FANCY WOOD PLANES

Beechwood Body, Cutters Forged from Tool Steel. Tempered and Polished; All Parts Perfectly Fitted



SIDE BEAD

No. 37—Single Boxed

Size, In	⅛	¼	⅜	½
Each	$0.50	.50	.50	.50

CASING MOULDING

No. 43½—With Fence

Size, In	½	⅝	¾	1	1¼
Each	$0 80	.80	.80	.90	1.00

No. 47—Side Stop

Size, In	¼	½	¾	⅞	1
Each	$1 10	1.10	1.10	1.10	1.10

DADOS

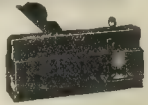
No. 48—Screw Stop

Size, In	¼	½	¾	⅞	1
Each	$1.50	1.50	1.50	1.50	1.50

No. 53—Side Stop

FILLETSTERS

	Each
No. 52—Side Stop, With Cutter. 3½ In. Long. 1½ In. Cut	$1.40

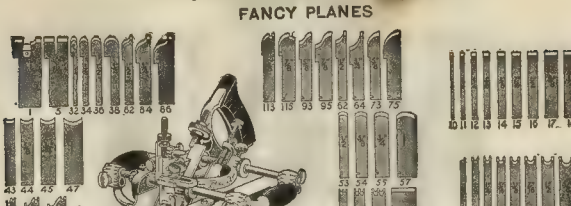


No. 55—Screw Stop

	Each
No. 55—Screw Stop, With Cutter. Boxed. 3½ In. Long. 1½ In. Cut	$3.50

All Above, Opp.

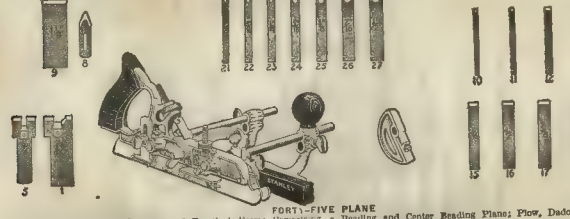
FANCY PLANES



Nickel Plated, with Handles and Fences made of Selected Rosewood. Plane Complete with its 32 Cutters is Packed in a Steel Box Each $14.00

No. 55—Complete with 32 Cutters; Weight, 16½ Lbs. .....

	Size	Style	Each
No.	1—1½	in.; Sash Tool	$0.50
No.	2— ¼	in.; Match Tool	.50
No.	3—	Slitting Tool	.30
No.	9—1¼	in.; Fillester	.25
No.	10— ⅛	in.; Plow & Dado Tool	.15
No.	11— 3/16	in.; Plow & Dado Tool	.15
No.	12— ¼	in.; Plow & Dado Tool	.15
No.	13— 5/16	in.; Plow & Dado Tool	.15
No.	14— ⅜	in.; Plow & Dado Tool	.20
No.	15— 7/16	in.; Plow & Dado Tool	.20
No.	16— ½	in.; Plow & Dado Tool	.20
No.	17— ⅝	in.; Plow & Dado Tool	.20
No.	18— ¾	in.; Plow & Dado Tool	.20
No.	19— ⅞	in.; Plow & Dado Tool	.25
No.	21 — ⅛	in.; Beading Tool	.15
No.	22— 3/16	in.; Beading Tool	.15
No.	23— ¼	in.; Beading Tool	.15
No.	24— 5/16	in.; Beading Tool	.20
No.	25— ⅜	in.; Beading Tool	.20
No.	26— 7/16	in.; Beading Tool	$0.25
No.	27— ½	in.; Beading Tool	.25
No.	28— ⅝	in.; Beading Tool	.30
No.	29— ¾	in.; Beading Tool	.30
No.	32— ¼	in.; Fluting Tool	.30
No.	34— ⅜	in.; Fluting Tool	.30
No.	36— ½	in.; Fluting Tool	.30
No.	38— ⅝	in.; Fluting Tool	.30
No.	43— ½	in.; Hollow	.20
No.	44— ⅝	in.; Hollow	.20
No.	45— ¾	in.; Hollow	.20
No.	47	in.; Hollow	.20
No.	53— ½	in.; Round	.20
No.	54— ⅝	in.; Round	.20
No.	55— ¾	in.; Round	.20
No.	57—	Round	.20
No.	62— ½	in.; Quarter Hollow	.45
No.	64— ⅝	in.; Quarter Hollow	.50
No.	73— ¾	in.; Quarter Round	.45
No.	75— ⅞	in.; Quarter Round	$0.50
No.	82— ½	in.; Reverse Ogee	.45
No.	84— ⅝	in.; Reverse Ogee	.50
No.	86	in.; Reverse Ogee	.50
No.	93	⅝ in.; Roman Ogee	.45
No.	95— ⅞	in.; Roman Ogee	.50
No.	102 - ⅛	in.; Grecian Ogee	.45
No.	104 - ⅜	in.; Grecian Ogee	.50
No.	106—1	in.; Grecian Ogee	.50
No.	113— ⅝	in.; ¼ Round with Bead	.45
No.	115— ⅞	in.; ¼ Round with Bead	.50
No.	212— ⅛	in.; Beading Tool, Two Bead	.20
No.	222— 3/16	in.; Beading Tool, Two Bead	.20
No.	232— ¼	in.; Beading Tool, Two Bead	.20



FORTY-FIVE PLANE

Seven Tools in One in Compact and Practical Form; Comprising a Beading and Center Beading Plane; Plow, Dado; Rabbet and Fillester; Match Plane; Sash Plane, and Slitting Plane. Each

No. 45—Nickel Plated with Handles made of Selected Rosewood. Plane Complete, with its 21 Cutters, Packed in a Steel Box; Weight, 9½ Lbs. $7.00

	Size	Style	Each
No.	1—1½	in.; Sash Tool	$0.50
No.	2— ¼	in.; Match Tool	.50
No.	3—	Slitting Tool	.30
No.	9—1¼	in.; Fillester	.25
No.	10— ⅛	in.; Plow & Dado Tool	.15
No.	11— 3/16	in.; Plow & Dado Tool	.15
No.	12— ¼	in.; Plow & Dado Tool	.15
No.	13— 5/16	in.; Plow & Dado Tool	$0.15
No.	14— ⅜	in.; Plow & Dado Tool	.20
No.	15— 7/16	in.; Plow & Dado Tool	.20
No.	16— ½	in.; Plow & Dado Tool	.20
No.	17— ⅝	in.; Plow & Dado Tool	.20
No.	18— ¾	in.; Plow & Dado Tool	.20
No.	19— ⅞	in.; Plow & Dado Tool	.25
No.	21— ⅛	in.; Beading Tool	$0.15
No.	22— 3/16	in.; Beading Tool	.15
No.	23— ¼	in.; Beading Tool	.15
No.	24— 5/16	in.; Beading Tool	.20
No.	25— ⅜	in.; Beading Tool	.20
No.	26— 7/16	in.; Beading Tool	.25
No.	27— ½	in.; Beading Tool	.25

FANCY PLANES

STANLEY RULE AND LEVEL CO.

SCRUB PLANES

This Tool has a Single Iron with the Cutting Edge rounded and is particularly adapted for roughing down work before using a Jack or other Plane, Japanned Iron Stock.

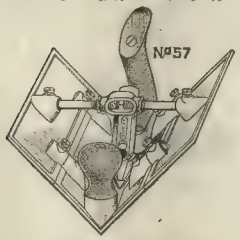
Japanned

	Each
No. 40—9¼ in. Long, 1¾ in. Cutter; Weight 2¼ Lbs.	$1.10
No. 40½—10½ in. Long; 1½ in. Cutter; Weight 2½ Lbs.	1 50

DOUBLE END MATCH

This Tool is Provided with Both Tongue and Groove Irons; With One Side a Tongue can be cut, and by Reversing Ends, the Plane will cut a Groove to fit.

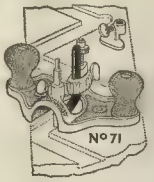
	Each
No. 146—Matches ⅜ in. Boards, Cuts Groove ⅜ in.; Weight 1½ Lbs.	$2 20
No. 147—Matches ⅝ in. Boards, Cuts Groove ⅝ in.; Weight 1⅞ Lbs	2 00
No. 143—Matches ⅞ in. Boards; Cuts Groove ¼ in.; Weight 2⅛ Lbs.	2 00

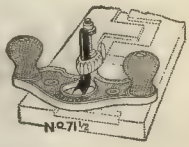


CORE BOX PLANES

A Tool much needed by Pattern Makers, Wheelwrights and others for planing out semi-circles; Constructed so that the sides can be extended by additional sections; 2¾ in. Wide until a diameter of 10 in. can be worked if desired.

	Each
No. 57—Nickel Plated; 10 in. Long; 2¾ in. Cut; Weight 6¾ Lbs.	$4.40



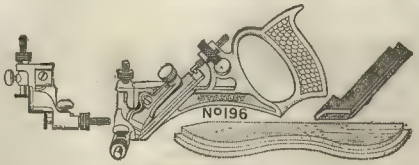


WOODWORKERS' ROUTER PLANES

These Tools are made with both an Open and Closed Throat, and are perfectly adapted to surface the bottom of grooves, panels and all depressions below the general surface of any woodwork.

Nickel Plated Steel Stocks, Two Polished Steel Bits, Sizes ¼ and ½ in. Beech Handles

Open Throat		Closed Throat	
	Each		Each
No. 71—7½ in. Long; Weight 2⅝ Lbs.	$2 05	**No. 71½**—7½ in. Long; Weight 2⅛ Lbs.	$1.65



CURVE RABBET PLANES

Will Cut Rabbets on Circular or Other Curved and Irregular Edges

	Each
No. 196—9 in. Long; Nickel Plated; Weight, 3 Lbs.	$4.00

FANCY PLANES

STANLEY RULE AND LEVEL CO.

IRON DADO PLANES

The great advantage of these Dado Planes over those made of wood is that they will keep True under all Conditions even in the Narrowest Widths. They have Skew Cutters, an Adjustable Depth Gauge, and Two Adjustable Spurs, One on Each Side of the Plane. This Adjustable feature permits of the Spurs being adjusted to take up wear, as well as for the depth of the cut.

The Plane is made in Seven Sizes from ¼ in. to 1 in. in Width. In Ordering, Always Give the Number (39) and Width of Cutter desired. Extra Cutters, $0.20 Each.

	Each
No. 39A—8 in. Long; ¼ in. Cutter; Weight 1¾ Lbs.	$1 65
No. 39B—8 in. Long; ⅜ in. Cutter; Weight 2 Lbs.	1 65
No. 39C—8 in. Long; ½ in. Cutter; Weight 2 Lbs.	1 65
No. 39D—8 in. Long; ⅝ in. Cutter; Weight 2¼ Lbs.	1.65

DADO PLANE

This Plane has an Extra Narrow Cutter, only 1/8 of an inch Wide, making it an Ideal Tool for Blind Wire Grooving as well as for many other purposes.

It is fitted with a Double Spur, which Prevents Splintering when Working Across the Grain and Insures a Smooth, Clean Cut.

A Depth Gauge is also attached allowing a Groove to be Cut of Any Desired Depth up to the Limit of the Plane—½ of an inch. This Plane will be of special interest to Electricians. Each

No. 238—7½ in. Long, ⅝ in. Cutter; Weight 1 Lb. $2.20

HANDLED IRON RABBET PLANES

These Planes will Lie Perfectly Flat on Either Side and Can be Used Equally as well with Right or Left Hand while Planing Into Corners or up Against Perpendicular Surfaces.

Made in Two Styles, One Fitted with a Spur which Permits them to be Used for Working across the Grain, and the Other Without a Spur. Both Styles are Fitted with a Detachable Depth Gauge.

	Each
No. 190—8 in. Long; 1¼ in. Cutter; Japanned; With Spur; Weight 2½ Lbs.	$1.25
No. 191—8 in. Long, 1¼ in. Cutter; Japanned; With Spur; Weight 2½ Lbs.	1.35
No. 192—8 in. Long, 1 in. Cutter; Japanned, With Spur; Weight 2 Lbs.	1.25

RABBET AND FILLETSTER PLANES

The Sides and Bottom being Square with each other, the Plane will Lie Perfectly Flat on Either Side.

It has an Adjustable Fence which Slides Under the Bottom, Regulating the Width of the Cut.

It is Fitted with Two Spurs, One on Each Side, for Working Across the Grain—Also an Adjustable Depth Gauge.

As both the Fence and the Depth Gauge can be Attached to Either Side, the Plane is Suitable for Either Right or Left Hand Work.

The Front Part of the Plane can be Easily Detached, thus Providing a Bull Nose Plane for Working Close up into Corners or Other Difficult Places.

The Cutter is Adjustable Endwise. Each

No. 278—6¾ in., Width of Cutter 1 in., Weight Each about 2 Lbs $1.75
One in a Box

No. 98

SIDE RABBET

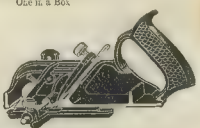
A Convenient Tool for Side-Rabbeting and Trimming Dados Mouldings and Grooves of all sorts. A reversible nose piece will give the tool a form by which it will work closet up into corners when required; Nickel Plated; Rosewood Knob.

	Each
No. 98—Right Hand; 4 in. Long; ⅜ in. Cutter; Weight ½ Lb.	$1 00
No. 99—Left Hand; 4 in. Long; ½ in. Cutter; Weight ½ Lb.	1 00

SKEW CUTTER FILLETSTER AND RABBET PLANE

Each

No. 289—8¼ in. Long; 1¾ in. Cutter; Japanned; Weight 3¾ Lbs. $1.75



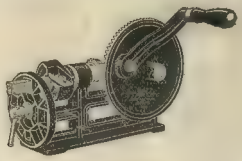
No. 78

DUPLEX, FILLETSTER AND RABBET PLANE

This Plane has Two Seats for the Cutter One for Regular Work and the other where a Bull Nose is required. It has a Spur and a Removable Depth Gauge. The Adjustable Fence can be used on Either Side and Slides Under the Bottom Regulating the Width of the Cut. To work same as a Rabbet Plane Remove Fence and Arms. Each

No. 78—8¼ in. Long; 1¼ in. Cutter; Japanned; Weight 3 Lbs. $1.65

DOWEL AND ROD TURNING MACHINES



STANLEY

A Tool that will appeal to Cabinet Makers, Pattern Makers, Furniture Manufacturers and especially to Supervisors and Instructors of Industrial Education

It will not only Cut Dowels of Varying Sizes and Lengths to Perfect Dimensions, but with it one can also Form Rods of Practically Any Length. Designed to be operated by Hand, the crank can be adjusted for a long or short throw, giving power or speed to the machine as desired.

Each

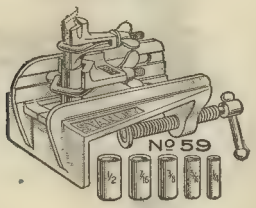
No. 77—Complete with One Cutter Only, for Making Dowels or Rods ⅜ in. in Diameter..... $8.50

EXTRA CUTTERS

These Cutters are Adjustable so that the Dowels or Rods can be made for a Tight or Loose Fit.

Nos.	77¼	77⅜	77½	77⅝	77¾	77⅞	77	77⅛	77¼
Size, In.	¼	⅜	½	⅝	¾	⅞	1	1⅛	1¼
Each	$0.80	.80	.80	.80	.80	.80	.80	.80	.80

DOWELING JIGS



STANLEY

For Boring Dowel Holes in the Edge, End or Surface of Wood with Ease and Accuracy; Also an Excellent Bit Guide for Mortising. Will Take Any Thickness of Material Up to Three Inches

When Making Dowel Holes with only a Brace and Bit it is also Necessary to Use a Square to insure the Holes being Bored Perpendicular to the Edge of the Stock, and even then more than ordinary skill is required to produce perfect work. With the Doweling Jig the Steel Guide is Automatically Set to Go by the Bit Properly when the Jig is Clamped to the Work.

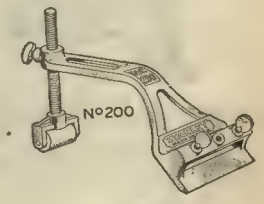
If Drill Bits are Used there will be No Danger of Boring Out of Line even in Cross-Grain Wood or Through Knots, and the Use of Drill Bits is Recommended for Quick and Accurate Work; However, Excellent Work can be Done with the Ordinary Worm Bits if Care is Taken to see that they fit closely in the guides.

To Allow for Variation in Size of Bits the Guides are Made 1/100 in. Larger than the Sizes Given.

Each

No. 59—Made Entirely of Metal, Nickel Plated, Working Parts Milled True; Jig Complete with Five Steel Guides 1¼ in. Long. One Each ¼, ⅜, ½, ⅝ and ¾ in.....$1.75
One in a Box

CUTTER AND CHISEL GRINDER



STANLEY

For Holding Plane Irons, Chisels and Other Similar Cutting Tools that they may be Ground and Honed to Any Desired Angle or Bevel Insuring an Accuracy that is very difficult to obtain when the tool is held in the hand.

Each

No. 200—Made Entirely of Metal All Parts Nickel Plated . $0.90

IRON PLANES

STANLEY RULE AND LEVEL CO.

Japanned Cast Iron Frames; Varnished Rosewood Handles and Knobs; Polished Caps; Tempered and Polished Tool Steel Cutters; Screw and Lever Adjustment; Designed so that the Entire Bottoms or Face or Frog Rests Solidly on Seat in Frame, and can be Adjusted for Wide or Narrow Throat Opening.

"Bed Rock" Adjustable

SMOOTH PLANES

Smooth Bottom

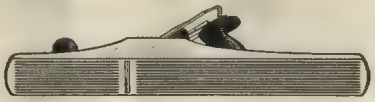
		Each
No. 602	— 7 in. Long, 1⅝ in Cut; Weight 2¼ Lbs.	$2.20
No. 603	— 8 in. Long, 1¾ in. Cut, Weight 3¼ Lbs.	2 30
No. 604	— 9 in. Long, 2 in. Cut, Weight 3⅝ Lbs.	2 50
No. 604½—10 in. Long, 2⅜ in. Cut; Weight 4¾ Lbs.		3.00

One in a Box

Corrugated Bodies

		Each
No. 603C	— 8 in. Long, 1¾ in. Cut; Weight 3¼ Lbs.	$2.30
No. 604C	— 9 in. Long, 2 in. Cut; Weight 3⅝ Lbs.	2 50
No. 604½C—10 in. Long, 2⅜ in. Cut; Weight 4¾ Lbs.		3.00

One in a Box



JACK, FORE AND JOINTER PLANES

Smooth Bottom

		Each
No. 605	—**Jack;** 14 in. Long, 2 in. Cut; Weight 4½ Lbs.	$3.00
No. 605½	—**Jack;** 15 in. Long, 2¼ in. Cut; Weight 6½ Lbs.	3.50
No. 606	—**Fore;** 18 in. Long, 2⅜ in. Cut; Weight 7⅝ Lbs.	3.75
No. 607	—**Jointer;** 22 in. Long, 2⅜ in. Cut; Weight 8¾ Lbs.	4.40
No. 608	—**Jointer;** 24 in. Long, 2⅝ in. Cut; Weight 9¾ Lbs.	5.25

Corrugated Bottom

		Each
No. 605C	—**Jack;** 14 in. Long, 2 in. Cut; Weight 4½ Lbs.	$3 00
No. 605½C	—**Jack;** 15 in. Long, 2¼ in. Cut; Weight 6½ Lbs.	3 50
No. 606C	—**Fore;** 18 in. Long, 2⅜ in. Cut; Weight 7⅝ Lbs.	3 75
No. 607C	—**Jointer;** 22 in. Long, 2⅜ in. Cut; Weight 8¾ Lbs.	4 40
No. 608C	—**Jointer;** 24 in. Long, 2⅝ in. Cut; Weight 9¾ Lbs.	5 25

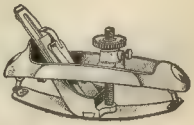
All Above, One in a Box

CARRIAGE MAKERS' RABBET PLANES

Especially Adapted for the Heavy Framing required in Mining Work, for Carriage or Wagon Building, or in any work of similar nature.

		Each
No. 10½—9 in. Long; 2⅜ in. Cutter; Weight 3 Lbs.		$2 50
No. 10—13 in. Long; 2½ in. Cutter; Weight 4¼ Lbs.		3.00

One in a Box



CIRCULAR PLANES

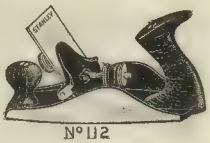
These Planes have Flexible Steel Faces which can be accurately adjusted for planing the inside or outside of circles. Graduated scale for setting the face. Japanned Cast Iron Frames, Caps and Handles. Tool Steel Cutters, Spring Steel Bottoms for Concave or Convex Surfaces.

		Each
No. 20½—10 in. Long; 1¾ in. Cutter; Weight 4 Lbs.		$3.50
No. 113—10 in. Long; 1¾ in. Cutter; Weight 3½ Lbs.		3.00

One in a Box

STANLEY PLANES

STANLEY RULE AND LEVEL CO.



SCRAPER PLANES

Designed for Violin Makers and all Mechanics requiring a Light Adjustable Scraper. Cast Iron Frame, Brass Adjusting Screw, Rosewood Handle; Polished Tool Steel Blade.

Each

No. 212—Length 5¼ in.; Width of Scraper 1⅝ in.; Weight Each, About 1½ Lbs. $1 50

One in a Box

Extra Blades $0.20

Cast Iron Frame, Polished Face and Outside; Japanned Cap and Inside, Brass Adjusting Screw; Rosewood Handle and Knob; Polished Tool Steel Blade.

Each

No. 112—Length 9 in.; Width of Scraper 3 in.; Weight Each, About 4 Lbs. $2.10

One in a Box

Extra Blades ..... .15

BELT PLANE

For Chamfering Down the Ends or Laps of a Belt before fastening them together.

Each

No. 11—6¾ in. Long; 2¾ in. Cutter; Japanned; Weight 3½ Lbs. $2.20

SCRAPER PLANES

Cast Iron Frame, Polished Face and Outsides; Japanned Inside; Brass Adjusting Screw; 11 in. Rosewood Handle.

Each

No. 12—Iron Face, 6¾ in. Long; 3 in. Blade. $2.40

Weight 3¾ Lbs.

CABINET MAKERS' SCRAPER PLANES

When in use the blade rests against the front edge of the mouth under a slight pressure. In working, the blade springs backward, opening the mouth and allowing the shaving to pass through it. As soon as working pressure is released the blade springs back to its normal position. Made in two styles, one, a Rabbet Scraper with handle and knob pivoted, to allow tilting for convenience when working into corners or up against perpendicular surfaces, and the other, without a Rabbet Mouth and with Stationary Handle and Knob. Handles and Knobs of Rosewood.

Each

No. 85—8 in. Long, 2 in. Blade; Rabbet Mouth; Tilting Handle and Knob; Weight 2¾ Lbs. $2.30

FLOOR PLANE

For Planing Floors, Bowling Alleys, Skating Rinks, Decks of Vessels, etc.

Polished Face, Japanned Body; Nickel Plated Knob and Lever Screw, Steam Bent Wood Handle Adjustable to Any Angle.

Each

No. 74—23¼ in. Cut; Handle 45 in., Weight 10 Lbs. ..... $4.

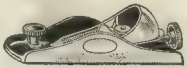
IRON BLOCK PLANES

STANLEY RULE AND LEVEL CO.

Cast Iron Frames and Caps, Machined and Polished Faces and Sides, Japanned Inside; Brass Adjusting Screw; Tool Steel Cutters, Tempered, Ground and Polished. Throat Can be Quickly Opened for Coarse or Fine Work. Made with the "Handy" features which gives the Workman a more Secure Grip on the Tool than is possible with any other design.

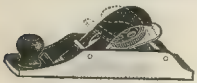
REGULAR
Japanned Trimmings

	Each
No. 9½—6 in. Long, 1⅝ in. Cut; Weight 1¾ Lbs.	$1.10
No. 15—7 in. Long, 1⅝ in. Cut; Weight 1⅝ Lbs.	1 20
Nickel Plated Trimmings	
No. 16—6 in. Long, 1⅝ in. Cut; Weight 1½ Lbs.	1 25
No 17—7 in. Long, 1⅝ in. Cut; Weight 1⅝ Lbs.	1.35



LOW ANGLE
Nickel Plated Trimmings

	Each
No. 60—6 in Long; 1⅝ in. Cut; Weight 1¾ Lbs.	$1 25
No. 65—7 in. Long; 1⅝ in. Cut; Weight 1⅝ Lbs.	1 35



DOUBLE END, NON-ADJUSTABLE

	Each
No. 130—8 in. Long; 1⅝ in. Cut; Weight 1⅝ Lbs.	$0 75

Has Two Slots and a Movable Cutter Seat. To Use in Corners as a Bull Nose Plane, Remove Cap and Cutter and Reverse the Cutter Seat as indicated in Cut.

DOUBLE END, ADJUSTABLE

	Each
No. 131—8 in. Long; 1⅝ in. Cut; Weight 1⅝ Lbs.	$1.50

No 140

RABBET AND BLOCK

Detachable Side changes this Tool from a Block Plane to a Rabbet Plane or vice versa. Cutter is set obliquely.

	Each
No. 140—Nickle Plated; Length 7 in., 1⅝ in. Cutter; Weight 1½ Lbs.	$1 40

TOY SIZE

	Each
No. 100—3½ in. Long; 1 in. Cut; Weight ⅝ Lb.	$0.25

NON-ADJUSTABLE

	Each
No. 102—3½ in. Long; 1⅝ in. Cut; Weight ⅞ Lb.	$0 40

ADJUSTABLE

	Each
No. 103—5½ in. Long; 1⅝ in. Cut; Weight ⅞ Lbs.	$0.55

LOW ANGLE
Japan Trimmings

	Each
No. 61—6 in. Long; 1⅝ in. Cut; Weight 1¾ Lbs.	$1.10

KNUCKLE JOINT
Nickel Plated Trimmings

	Each
No. 18—6 in. Long; 1⅝ in. Cut; Weight 1½ Lbs.	$1.30
No. 19—7 in. Long; 1⅝ in. Cut; Weight 1⅝ Lbs.	1.40

Japanned Trimmings; Rosewood Handle

	Each
No. 9¾—6 in. Long; 1⅝ in. Cut; Weight 1⅝ Lbs.	$1.30

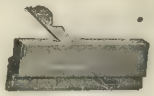
FANCY WOOD PLANES

Beechwood Body, Cutters Forged from Tool Steel, Tempered and Polished; All Parts Perfectly Fitted.

OGEE

No. 59—Common

Size, In.	⅜	½	⅞	1	1⅛	1½
Each	$0.60	.65	.65	.65	.65	.65



BOARD MATCH

No. 75—Tonguing or Grooving

Size, In.	¾	½	⅝	¾	⅞	1
Each	$0.75	.75	.75	.75	.75	.75

Tonguing Plane cuts Tongue; Grooving Plane plows Groove; Spe- cify which

CLOSING STEP PLANES

No. 90—With One Iron

Size, In.	¾	1¼	1⅜	1½	1¾	2
Each	$0.80	.80	1.00	1.00	1.25	1.25

No. 91—With Two Irons

Size, In.	¾	1¼	1⅜	1½	1¾	2
Each	$1.10	1.10	1.20	1.20	1.50	1.50

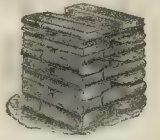
RABBET PLANES

No. 116—Skew Rabbet

Size, In.	½	⅝	¾	⅞	1	1¼	1½	1¾	2
Each	$0.60	.60	.60	.60	.60	.65	.70	.80	.90

No. 119—Skew Rabbet, with Handle and Two Cutters

Size, In.	1½	1¾	2
Each	$1.70	1.70	1.70



No. 72—HOLLOWS AND ROUNDS

In ordering Half Pairs of Hollows and Rounds, be careful to give Number of Plane and Whether Hollow or Round. Hollows leave the Wood Round; Rounds leave the Wood Hollow. They are used for Rounding Corners and Smoothing Hollows.

	In Sets	Per Set
Set of 9 Pairs, Nos. 1 to 9		$9.45
	In Pairs	Per Pair
Nos. 1 to 6		$1.00
Nos. 7 to 9		1.15

SIZES OF CIRCLES WORKED BY HOLLOWS AND ROUNDS

Size, No.	1	2	3	4	5	6	7	8	9
Width of Iron, In.	¾	⅞	½	⅝	¾	⅞	1	1⅛	1⅛
Size Circle Worked, In.	½	⅝	1	1¼	1½	1⅝	2	2¼	2½

PANEL PLOWS

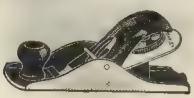
Adjustable, Complete with Eight Irons. Used for Grooving for Different Thicknesses of Panels

	Each
No. 95½—Handled, with 8 Cutters, One Each ⅛, ⅜, ¼, ⅜, ½, ⅝, ¾ and ⅞ In.	$6.50

IRON BLOCK PLANES

STANLEY RULE AND LEVEL CO.

Cast Iron Frames and Caps; Machined and Polished Faces and Sides; Japanned Inside; Brass Adjusting Screw; Tool Steel Cutters, Tempered, Ground and Polished; Throat can be Quickly Opened or Closed for Coarse or Fine Work. Made with the "Handy" feature which gives the Workman a more Secure Grip on the Tool than is possible with any other design.



NON-ADJUSTABLE

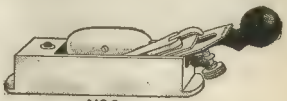
	Each
No. 110—7½ in. Long; 1⅝ in. Cut; Weight 1¾ Lbs	$0.55

SCREW ADJUSTMENT

	Each
No. 220—7½ in. Long, 1⅝ in. Cut, Weight 1½ Lbs.	$0.75

Especially Adapted for use in Cutting Across the Grain on Heavy Work, where more power is required than can be obtained by the use of the ordinary Block Plane.
Japanned Trimmings, Rosewood Handle and Knob.

	Each
No. 62—14 in. Long; 2 in. Cut; Weight 3½ Lbs.	$2.85



N° 9

CABINET MAKERS'

Has Metallic Handle with Slot and Set-Screw which can be attached to the Top of the Plane, on either edge, for working on a shooting board, for Planing Mitres, etc.
Rosewood Knob.

	Each
No. 9—10 in. Long, 2 in. Cutter; Weight 4½ Lbs.	$4.10

EDGE TRIMMING PLANES

For Trimming or Smoothing Ends of Boards such as Siding, etc.

	Each
No. 95—Japanned; 6 in. Long, ⅞ in. Cutter; Weight 1¼ Lbs.	$1 15

BULL NOSE RABBET

For Close Work in Corners, etc. The Mouth Opens or Closes with a Screw in Upper Section of Stock.

	Each
No. 78—4 in. Long; 1 in. Cutter; Weight 2¼ Lbs.	$0 40
All Above, One in a Box	

STANLEY BUTCHERS' BLOCK PLANE

The Plane illustrated above is Designed Especially for Truing up or Resurfacing Butchers' Blocks.
With its Use Blocks having the Most Uneven Surfaces Can be Leveled up with More Speed and Greater Satisfaction than can be Obtained with the Use of Any Other Tool.
The Plane has been Thoroughly Tested on this Work and has been referred to by those interested as fulfilling a long felt want.
The Work is Accomplished with a Specially Formed Cutter or Plane Iron Set at an Exceptionally Low Angle.
In addition to the Special Cutter Mentioned, a Regular Plane Iron is Furnished which will Enable the User to Finish Smooth the Final Surface of a Block, also for Planing Smooth and Keeping in Condition the Meat Benches and Tables Ordinarily Found in a Butcher's Establishment.

	Each
No. 84—12½ in. Long, 2 in. Cutters; Weight 4 Lbs.	$2 40

SHEET METAL WORKING TOOLS AND MACHINES.

PEXTO

P. S. & W. CO.

MANUAL TRAINING EQUIPMENT.

He Can Do It, If You Start Him Right!

WE all know the subject of sheet metal working takes care of itself. Boys look forward to it with pleasure and to many of them it is their first opportunity to run a machine. Sheet metal working has many attractive features and boys find it a very interesting kind of shop work. It is easy to connect home interest with the school shop by making repair work a part of the course. Kitchen utensils, pans, sugar scoops, funnels, dust pans, bread and cake boxes and the re pair of gutters and down spouts are interesting projects. Sheet Metal Work develops a facility in the handling of a variety of hand tools A larger number of light machines and tools are used than in any other branch of metal work. Since the machines are hand operated they are entirely under the control of the boy and not in any sense automatic as some machines are. The mind of the boy must be on his work and a corresponding mental development results from this concentration.

Sheet Metal Work is a large and growing industry. It is intimately connected with the building trades and an increasing proportion of the costs of building are spent for cornice work, roofing, skylights, ornamental ceilings, ventilating, heating, etc. The rapid growth of the automobile industry requires the labor of thousands of men on bodies and radiators and the invention of sheet metal boats and a large line of metal furniture are opening up new fields every day The sheet metal working trades offer unusual opportunities to young men who possess the necessary training — to-day more than ever The work is not confining, not unhealthful and not dangerous. As a trade it has increased in importance from year to year and the introduction of machinery has had much less effect on it than on the work of the moulder, the blacksmith, or the printer

For almost a century Pexto Sheet Metal Working Tools and Machines have been foremost on the American Market—no other tools and machines are as good Good tools are as essential for the untrained boy as for the expert. In Manual Training Work nothing but poor tools will serve to discourage enthusiastic, ambitious boys.

SHEET METAL WORKING EQUIPMENT FOR TRADE SCHOOLS

is not unduly expensive and may be made as extensive as one desires to make it. A set of hand machines and a few each of the different small tools will do to carry the work in a class of fifteen to twenty pupils. There is not the same need for individual outfits in sheet metal working as in wood work as the tools can be used in general by all members of the class The following list may be helpful to those who are about to add sheet metal to the course of study in the elementary work·

1 Hold-All Revolving Machine Standard No. 969.
1 Small Turning Machine No. 541, without Standard.
1 Pair No. 5 Elbow Edging Rolls for ditto.
1 Wiring Machine No. 526, without Standard.
1 Large Burring Machine No. 580, without Standard.
1 Setting Down Machine No. 561, without Standard.
1 Beading Machine with four pairs Beading Rolls, without Standard.
1 Pair Straight Crimping Rolls for ditto.

All Machines itemized above fit into the Hold-All Revolving Machine Standard occupying floor space of only 30 inches diameter.

1 Squaring Shears No. 159.
1 Adjustable Bar Folder No. 63.
1 Forming Machine No. 383.
1 Grooving Machine No. 518.
2 Beach Plates No. 982.
1 Hollow Mandrel Stake No. 910.
1 Mandrel Stake No. 902.
1 Blowhorn Stake No. 925.
1 Double Seaming Stake No. 922.
1 Candlemould Stake No. 956.
1 Hatchet Stake No. 944.
1 Round Head Stake No. 965
3 Gas Furnaces No. 794.
3 Pairs Soldering Coppers. 3 lbs
6 Soldering Copper Handles.
1 Vise No. P-704
1 Hand Punch No. 790
1 Pair Bench Shears No. 4

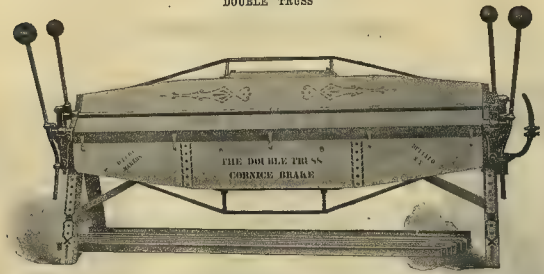
SMALL TOOLS.

Setting Hammers No. 3.
Riveting Hammers No. 3
Raising Hammers No. 3.
Rivet Sets No 46, sizes 2, 4, 6.
Prick Punches
Solid Punches Nos. 4, 6, 8
Hollow Punches ⅛, ⅜, ¾, ⅞ inch.
Straight Snips, P S. W 1819 Original No. 9.
Circular Snips, P. S. W. Original No. 9.
Scratch Awls No. 01.
Circumference Rules No. 101.
Wire Chisels, ⅛ inch.
Lantern Chisels, ½ x 5½ inches.
Hand Groovers Nos. 2, 4, 6.

TINNERS' TOOLS

CORNICE BRAKES

DOUBLE TRUSS



*No. 8—Bending Edge 8 ft. 1 in. Long, ⅛ in. Wide Will form No. 22 Gauge Full Length. Weight each, 1025 lbs. Ea., $155.00

*No. 18—Bending Edge 8 ft. 1 in. Long, ⅛ in. Wide. Will form No. 16 Gauge Full Length. Weight each, 1225 lbs. Ea., $175.00

The above Brakes are operated by hand power on the same principle, and do the same work, both in quality and quantity, as the all-metal machines. The material to be formed is clamped between the upper and lower jaws and bent by the front or bending leaf to the desired angle. Curves are formed by bending the material over half-round formers attached to the front leaf. Both the mechanism and material of which these Brakes are constructed are entirely different from the all-metal machines. They are the most simply constructed cornice brakes manufactured. They are strong, durable, easily operated, and have no spring or complicated parts to get out of order, and many valuable features not found in any other brake on the market. They are especially valuable to contractors, owing to the fact thatt hey are all portable, being easily and cheaply transported to any place where they may be useful, enabling the contractor to have the brake close to the building in course of construction, and have the work formed up right on the premises, which saves a large amount of freight and expense of handling formed-up work and the risk of damage in transit.

These Brakes will bend or form sheet metal to almost any angle or curve, or any combination of angles or curves; not only on the edge of the material, but at any distance from the edge, either crosswise or lengthwise of the sheet, which cannot be done with any other machine or combination of machines.

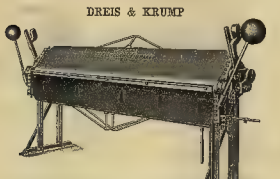
We recommend them to Sheet Metal Contractors, Tinsmiths, Jobbers, Furnace Men, Refrigerator and Trunk Manufacturers, Stove and Range Makers, Railroad Shops, etc.

*Not carried in stock. Lists are f. o. b. factory.

TINNERS' TOOLS

HAND BENDING BRAKES

DREIS & KRUMP



Chicago Steel

Construction—Made of steel throughout. Strong, rigid. Light steel castings and drop forgings are used for hinges and other parts where there is a strain. Three times as strong as cast iron. With reasonable care they will last a lifetime

Features—One man operation. Light weight. Wide opening jaws. Provision on ends for flanges. Bending edge for forming as small as ⅛ in. reverse bends.

Variety of Work—Adapted for a large variety of work, such as cornice, gutter, square and octagon pipe, skylights, flashing, ridge roll, roofing, ventilating, furnace, auto radiator, fender and body, tanks, corrugated drain boards, etc.

Capacities—Capacity rated is for mild steel and for bending a flange 1 in. or wider on sheets of full capacity. Narrow flanges less than 1 in. cannot be bent on full length sheets of rated capacity.

No. 3 Length, 8 ft. 1 in. Capacity, 16 gauge. Weight, 1500 lbs. . . . . Each, $410.00

No. 4—Length, 8 ft. 1 in. Capacity, 18 gauge. Weight, 1000 lbs. . . . . Each, 265.00

These sizes carried in stock. Prices quoted and literature furnished on sizes from 3 ft. to 12 ft upon request.

COMBINATION BRAKE AND FOLDER

P. S. & W.

Capacity, 16 Gauge Iron

Furnished with seven Formers for making circular and semi-circular bends in cornice work, etc.; viz., 3, 2½, 2, 1⅝, 1½, 1¼ and 1 in. When machine is used for 16 gauge iron two men can operate the machine with greater ease.

The machine is made of iron with steel bending blades, and allows for easy and accurate formation of wide angles or narrow locks within the rated capacity with no danger of springing. The cross head is brought down and the work securely clamped through eccentrics actuated by hand levers from either end of machine. This arrangement is a one-man feature, making the changing of position for clamping the work unnecessary. Adjustments are provided for in the eccentric connection allowing for a maximum pressure to bear on the work while in the process of forming, preventing the work slipping from a true line. This adjustment is secured through loosening top nut "A" and tightening lower nut "B" for heavy stock and the reverse when lighter materials are used. The bending plate is adjustable, a suitable wrench being provided for loosening the hexagon nuts, when this plate may be raised or lowered for forming a closed lock or an open lock for receiving wire as large as ⅜ in. in diameter. Adjustable stop gauge "C" is provided for the forming of angles.

No. 93 Length, 42 in.; clamping jaws open 1¾ in.; will form open or closed locks ⅛ to 1¾ in.; will form open or closed locks ⅛ to 1⅝ in. on 16 ga., ⅛ to ⅜ in. on 18 ga.; ⅛ in on 20 ga., 1/8 in. on 22 ga.; ⅛ in. on 24 ga. Weight, 950 lbs . . . . . Each, $450.00

FOLDING MACHINES

STOW'S PATENT ADJUSTABLE BAR

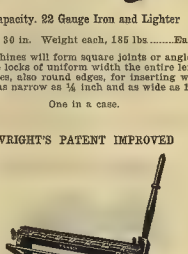
Capacity. 22 Gauge Iron and Lighter

No. 63—Width 30 in. Weight each, 185 lbs. . . . . Each, $132 00

These machines will form square joints or angles and turn narrow or wide locks of uniform width the entire length. Will turn sharp edges, also round edges, for inserting wire. Locks can be formed as narrow as ⅛ inch and as wide as 1 inch.

One in a case.

WRIGHT'S PATENT IMPROVED



Capacity, 22 Gauge Iron and Lighter

No. 1—Width, 30¼ in. Weight each, 85 lbs. . . . . Each, $46.00
Will turn locks ¼ and ⅜ in.

NOTE No. 1 is not fitted with Round Steel Rod Attachment and is furnished less the Steel Strips, this number being adjustable for turning only two sizes of locks as recommended without the use of Steel Strips.

One in a case.

Capacity, 22 Gauge Iron and Lighter

No. 10A—31 inches long. Will form locks ⅛ to ½ inches. Weight, 85 lbs. . . . . Each, $52.00

Fitted with machined steel bending blades and gauges. The gauge is adjustable and moves upon a line parallel with the edge of the Folding Blade.

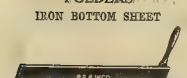
One in a case.

SEATTLE HARDWARE COMPANY

TINNERS' TOOLS

FOLDERS

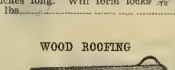
IRON BOTTOM SHEET



Capacity, 22 Gauge Iron and Lighter

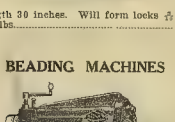
No. 23—30 inches long. Will form locks $\frac{1}{4}$ to $\frac{3}{8}$ inches. Weight, 105 lbs. ..... Each, $48.00

WOOD ROOFING



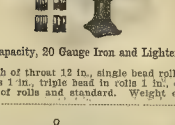
No. 123—Length 30 inches. Will form locks $\frac{1}{4}$ to $\frac{3}{8}$ inches. Weight, 17 lbs. ..... Each, $15.00

BEADING MACHINES



Capacity, 20 Gauge Iron and Lighter

No. 617—Depth of throat 12 in., single bead rolls $\frac{3}{8}$ in., Ogee bead in rolls 1 in., triple bead in rolls 1 in., complete with three pairs of rolls and standard. Weight each, 140 lbs. Each $125 00



Capacity, 26 Gauge Iron and Lighter

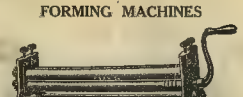
No. 620—Depth of throat to frame 6¼ in., depth of throat to gauge 5¼ in., dia. of rolls 1$\frac{13}{16}$ in., width of rolls 1$\frac{7}{16}$ in., distance between shaft 1$\frac{7}{8}$ in. Weight each 50 lbs. Each $76.00

Above furnished with four pairs Rolls, one each Ogee $\frac{5}{8}$ in., Triple $\frac{5}{8}$ in., Triple Coffee Pot ½ in., and Single $\frac{1}{4}$ in. Improved Standard No. 975 is furnished.

No. 621—Depth of throat to frame 4¾ in., depth of throat to gauge 4 in., dia. of rolls 1¾ in., width of rolls 1 in., distance between shaft centers 1$\frac{7}{16}$ in Weight each 40 lbs. Each $64.00

Above furnished with five pairs Rolls, one pair each, Ogee $\frac{1}{2}$ in , Triple Coffee Pot $\frac{3}{8}$ in., Double $\frac{1}{4}$ in., Astragal $\frac{1}{4}$ in., and Single $\frac{1}{16}$ in. Improved Standard No. 975 is furnished.

FORMING MACHINES



Stow's Patent Stovepipe Former

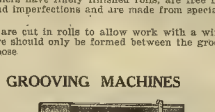
No. 373—Machine Cut Steel Compensating Gears, 31 in. Rolls, 2 in. diameter. Weight, 140 lbs. ..... Each, $77.00

No. 382—Machine Cut Steel Compensating Gears and Quick Acting Levers, 30-in. Rolls, 2 in. diameter. Weight, 165 lbs. ..... Each $90.00

The formers have finely finished rolls, are free from indentations and imperfections and are made from special rolled hard steel.

Grooves are cut in rolls to allow work with a wire to be formed. Wire should only be formed between the grooves cut for that purpose

GROOVING MACHINES

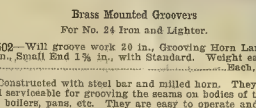


Brass Mounted Groovers

For No. 24 Iron and Lighter.

No. 502—Will groove work 20 in., Grooving Horn Large End 3 in., Small End 1$\frac{7}{8}$ in., with Standard. Weight each, 102 lbs. ..... Each, $66.00

Constructed with steel bar and milled horn. They will be found serviceable for grooving the seams on bodies of tin cans, pails, boilers, pans, etc. They are easy to operate and simple in construction. Three grooving rolls, one each $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ in., are furnished.

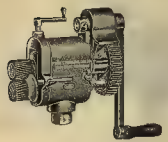


No. 518 Improved Automatic Rapid Groover, with flattening attachment. Will groove work 30 in.; 2 in. smallest pipe that can be grooved. Weight each, 200 lbs. ..... Each, $126 00

Six grooving rolls are furnished on each with $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ in. grooves, two with $\frac{5}{16}$ in. and one flattening roll.

TINNERS' TOOLS

CORNICE MAKERS' CRIMPER



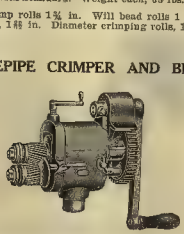
The rolls on this machine are attached to arbor in a manner that leaves the ends or faces of the rolls flush for crimping close up to a bend or angle. This machine has straight crimping rolls, adjustable for two speeds, geared for heavy work and may be run direct drive on light work.

Capacity, 20 Gauge Iron and Lighter

No. 592—Cornice Maker's Crimper. Width crimp rolls, 1¾ in. Complete with Standard. Weight each, 63 lbs....Each, $62.00

Will crimp rolls 1¾ in. Will bead rolls 1 in. Diameter beading rolls, 1⅛ in. Diameter crimping rolls, 1⅛ in.

STOVEPIPE CRIMPER AND BEADER



Capacity, 20 Gauge Iron and Lighter

No. 585—Complete with Standard. Wt., 66 lbs.....Each, $59.00

These machines are designed to facilitate the making and putting together of sheet metal pipe of different diameters. They crimp and contract the edges of stove and conductor-pipes so that the lengths are put together easily.

Will crimp rolls 1⅝ in. Will bead rolls 1 in. Diameter beading rolls, 1⅛ in. Diameter crimping rolls, 1⅛ in. Size of bead ogee, $\frac{1}{4}$ in.

STOVEPIPE CUTTER AND CRIMPER

KOHLER

No. 100—Will cut and crimp any size pipe, without waste, in one operation. Length, 27 in. Height, 15½ in. Carbon tool steel cutters. Crimping rolls made of steel. 12 in. scale cast on machine. Weight, 46 lbs.....Each, $44.00

CRIMPING AND BEADING MACHINES

Capacity, 24 Gauge Iron and Lighter

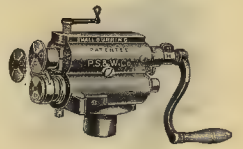
Actual tests have demonstrated that for crimping or beading Stove Pipe, Elbows, Furnace Pipe, etc., this type of machine is vastly superior to any other built for the purpose. The construction throughout is exceedingly strong and rigid, and permits of easy and rapid adjustment.

The depression of rolls is accomplished by a foot treadle. The contact of the upper Beading Roll is adjusted by a lever, and this lever also gives an independent adjustment for raising upper Beading Roll, taking same out of contact with lower roll, in case crimping only is desired. The adjustment of this lever is effected by means of an eccentric device, and is handy and practically instantaneous in its action. The application of this feature greatly increases the simplicity of this machine, as the operation of crimping alone can be performed without substituting blank collars for beading rolls. The crank is adjustable to suit light or heavy work.

No. 602—Wt. 38 lbs.. Each, $44.00

BURRING MACHINES

STOW'S ENCASED



With Small, Extra Upper Face

Capacity, 24 Gauge Iron and Lighter

No. 579—Diameter of Rolls 1½ inches. Widest flange or burr that can be turned, $\frac{1}{16}$ inch. With Standard.. Weight each, 21 lbs.....Each, $47 00

With Large, Extra Upper Face

Capacity, 24 Gauge Iron and Lighter

No. 580—Diameter of Rolls, 2½ inches. Widest flange or burr that can be turned, ¾ inch. With Standard. Weight each, 23 lbs.....Each, $45.00

Burring Machine or Jenny used for creasing, edging rims of covers for pails, boilers, etc., and for preparing circular edges of bottoms and bodies of vessels for double-seaming

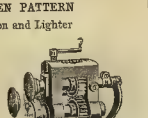
SEATTLE HARDWARE COMPANY

TINNERS' TOOLS

BURRING MACHINE

COLUMBIAN OR OPEN PATTERN

Capacity, 22 Gauge Iron and Lighter



No. 576—For Burring or Flanging Bottom on Bodies of Vessels, etc. Dia. of rolls 1½ in., widest flange or burr that can be turned ⅞ in. Complete with Standard. Weight 21 lbs.....Each, $79.00

No. 577 Dia. of Rolls 2⅛ in., widest flange or burr that can be turned ¼ in. Complete with Standard. Weight 25 lbs.....Each, $46.00

One in a wooden box.

SETTING-DOWN MACHINES

The inclined position of both upper and lower faces allows work to be held up or down and seams to be started inward while setting down, thereby facilitating the operation of double seaming.

These machines are used to close down the edges formed by a burring machine.

Capacity, 24 Gauge Iron and Lighter

No. 561—With inclined face. For seams up to ⅜ inch. Weight 50 lbs each.....Each, $56 00

WIRING MACHINES

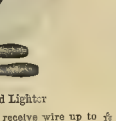
STOW'S ENCASED PATTERN

Capacity, 24 Gauge Iron and Lighter

No. 526—Diameter of Rolls 3 in. Will receive wire up to ⅝ in. diameter. With Standard. Weight, 26 lbs.....Each, $52.00

COLUMBIAN OR OPEN PATTERN

Wiring machines follow the turning machines. They are intended for rolling sheet metal tightly around wire after its seat has been prepared by the turning machine. Cylindrical or straight work can be wired with these machines



Capacity, 24 Gauge Iron and Lighter

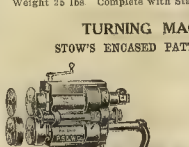
No. 525—Diameter of Rolls, 3 in. Will receive wire up to ⅝ in. diameter. With Standard. Weight, 31 lbs.....Each, $48.00

ELBOW EDGING MACHINES

No. 551—Columbian Pattern Diameter of rolls, 2¼ inches. Weight 35 lbs Complete with Standard .....Each, $47.00

TURNING MACHINES

STOW'S ENCASED PATTERN—SMALL



Thick Edge or Turning Machines are intended for turning or curving the tops of vessels to receive wire. The wire is first formed into shape of vessel and then inserted in groove made by the turning machine The wiring machine finishes the operation, closing metal completely around wire, adding finish and durability to the vessel

Capacity, 24 Gauge Iron and Lighter

No. 545—Diameter of Rolls, 2¾ in. Smallest diameter of wire that can be used, ⅛ in. Largest, ½ in. With Standard. Weight each, 23 lbs. .....Each, $50.00

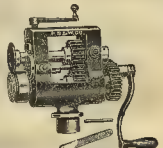
STOW'S ENCASED PATTERN—LARGE

Capacity, 24 Gauge Iron and Lighter

No. 546—Diameter of Rolls, 3 in. Smallest diameter of wire that can be used, ⅛ in. Largest, ⅝ in. With Standard. Weight each, 28 lbs. .....Each, $56 00

COLUMBIAN PATTERN—SMALL

Nos. 541-542



No. 547

Capacity, 22 Gauge Iron and Lighter

No. 541—Small Columbian Pattern. Diameter of rolls, 2 ⅞ inch. Smallest diameter of wire that can be used, ⅛ inch. Largest diameter of wire that can be used, ½ inch. Weight 25 lbs. Complete with Standard.....Each, $47.00

COLUMBIAN PATTERN—LARGE

Capacity, 22 Gauge Iron and Lighter

No. 542—Diameter of Rolls, 3 in. Smallest diameter of wire that can be used, ⅛ in. Largest, ⅝ in. With Standard. Weight each, 31 lbs. .....Each, $36.00

Capacity, 18 Gauge Iron and Lighter

No. 547—Diameter of rolls, 3¼ inch. Smallest diameter wire, ⅛ inch. Largest diameter wire, ⅝ inch. With Standard. Weight, 115 lbs.....Each, 125 00

TINNERS' TOOLS

MACHINE STANDARDS

No. 976 No. 975 No. 977

No. 975—Regular Offset. Size of hole, 1⅝ inches. Height over all from bench, 9¾ inches. Weight, 10¼ lbs. Each $5.50

No. 976—Wiring Offset. Size of hole, 1⅝ inches. Height over all from bench, 9¾ inches. Weight, 11 lbs. Each, 5.50

No. 977—Extra Heavy. Size of hole, 2¼ inches. Height over all from bench, 10½ inches. Weight, 24 lbs. Each, 11.00

HOLDALL REVOLVING MACHINE STANDARD

Features—

No. 1—A place for everything and everything in its place. How many times have you delayed that rush job owing to misplacing a roll you could not find when you needed the most or how much valuable time have you consumed in locating a face wrench at each time it was necessary to change a roll?

No. 2 A Revolving Turret holding four machines. Four operations can be completed without changing positions

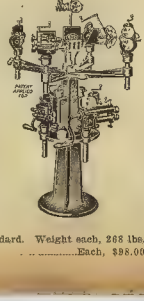
No. 3—Hand Lever for holding Revolving Turret in a fixed stationary position.

No. 4 — Adjustable Machine Holders that raise, lower and swivel for suiting operating convenience of machines for the short and tall operator as well as the work in process

No. 5 Lower Stationary Turret for holding four additional machines arranged for quickly interchanging with any machine set in upper Revolving Turret. This Lower Turret also provides for a handy shelf, holding oil can, tools, etc., which are used in connection with equipment mounted.

No. 6—Two additional reserve Machine Posts out of the way, supported on brackets to hold any large bench machine that will not fit in Holders provided for the smaller machines. Ten Posts in all go with each Standard.

No. 7—A handy Rack for holding Pexto Catalogue—a book that every worker in tin and sheet metal should have near him for quick reference.



No. 988—Revolving Machine Standard. Weight each, 268 lbs. ..... Each, $88.00

SQUARING SHEARS

For 18 Gauge Iron and Lighter

No. 132-BNT—Without Side Table ..... Each, $225.00
No. 132-B—With Side Table 232.00
No. 137-A—Without Side Table, with Hold-Down Attachment ..... Each, 320.00

Specifications

Nos.	132-BNT	132-B	137-A
Length of cut, in.	31	31	36
Length of front arms, in.	19	19	25½
Length of rear gauge arms, in.	24	24	24
Width of bed plate, in.	14	14	14
Shipping weight crated, lbs.	515	540	650

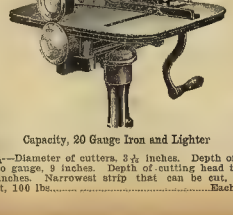
SLITTING SHEARS

Combined Bench and Slitting Shears

Capacity, 18 Gauge Iron and Lighter

No. 248—Length of cutting blades 8½ inches. Depth of cutting head to gauge, 3⅛ inches. Depth of cutting head to frame, 10 inches. Size of table 12x15½ inches. Weight 165 lbs. ..... Each, $126.00

A splendid, practical Shear for general use in car shops, automobile shops and other shops where a variety of straight and irregular cutting is done



Capacity, 20 Gauge Iron and Lighter

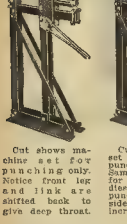
No. 250A—Diameter of cutters, 3½ inches. Depth of cutting head to gauge, 9 inches. Depth of cutting head to frame, 10⅛ inches. Narrowest strip that can be cut, ¼ inch. Weight, 100 lbs. ..... Each, $75.00

SEATTLE HARDWARE COMPANY

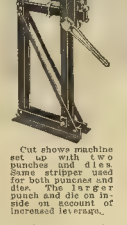
TINNERS' TOOLS

PUNCH, SHEAR AND BENDER

MARVEL

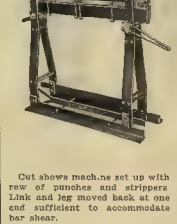


Cut shows machine set for punching only. Notice front leg and link are shifted back to give deep throat.



Cut shows machine set up with two punches and dies. Same stripper used for both punches and dies. The larger punch and die on inside on account of increased leverage.

This cut shows machine set with bender on outside and angle iron notcher on inside



Cut shows mach.ne set up with row of punches and strippers Link and leg moved back at one end sufficient to accommodate bar shear.

Machine shown here with shear in center set cross-wise for splitting sheets, etc. Both links and legs moved sufficient to accommodate angle iron notcher at one end, bender at other end.

This machine is built almost entirely of bar steel and practically unbreakable. The horizontal or tool holding bars are heat treated and space ¾ in. apart to form bolt slot for clamping various tools. Pressure or leverage is applied to these members by an upper and lower eccentric connected by two links and hand levers. The lower parallel bars remain stationary at all times, the upper bars only being movable vertically. The eccentric and link arrangement are also slidably mounted on parallel bars, which make it possible and easy to change throat of machine. If machine is to be used as a punch, slip punch and die holder with bolt in slot, insert stripper and tighten, and you have a punch machine with punch visible from all sides. More than one punch and die may be clamped in position at one time if desired. All other tools such as shear, notcher for angle iron, and bender are inserted and bolted in like manner. The front leg or clamp is also slidably mounted on both the parallel bars or tool carriers and also on the angle iron base, and may be shifted entirely to rear or against rear leg of machine. Eccentrics are squared on both ends. This allows hand levers to be operated from either side or from front or rear of machine Eccentrics are made of special alloy steel, hardened and drawn, which makes the strongest steel known for this purpose. Special tools to suit various requirements may be designed and used in place of those mentioned. The parallel bars or tool carriers are 22 in long.

No. 22 —Net weight, 260 lbs. Weight crated for shipment, 310 lbs. ..... Each, $175.00

Capacity

Will punch ⅜-in. hole in ⅜-in. stock 2-in. throat.
Will punch ¼-in. hole in ¼-in. stock—6-in. throat.
Will shear ⅝x2-in flat bars.
Will notch 1¼x1¼x⅜-in. angle iron.
Will bend 1½x1½x⅜-in. angle iron 90 degrees
Will bend 1½x1¼-in. flat bars.
And their equivalents in other sizes.
Vertical travel of bars, one lever, ⅞ in.
Vertical travel of bars, two levers, ⅝ in.
Space between upper and lower bars, 3¼ in

Dimensions

Height of machine, 48 in. Length, 24 in. Width, 10 in.

Unless otherwise ordered, Marvel All-Steel Punch, Shear and Bender No. 22 is regularly furnished with one punch and die holder and ¼ in., ⅜ in. and ⅝-in. punches and dies; one V block bender 2 in. long; one shear holder with shear blades 3 in long; one 90-degree notching punch and die, with necessary bolts and washers.

This machine is much the same as No. 22, except having an eccentric and link arrangement at both ends. It is also larger and heavier. Bars or tool carriers of this machine are 4 ft. long. It will be seen from cut that the machine has an almost unlimited range of usefulness. Several punches and dies may be placed between the links spaced at distance required and a row of holes punched simultaneously. A punch and die, V block bender, a shear, a notcher, etc, may all be set in the machine at the same time ready for use. The shear as shown may be placed in the center and sheet iron may be split. It will take 40 inches between links. Legs are sidably mounted on angle iron base and may be shifted to give deep throat on one or both ends of machine. Levers may be worked from one or both ends at same time. Angle iron may be notched and bent square with tools all set in machine at same time. Various other combinations of tools may be arranged to suit requirements. Parallel bars and links and levers are heat treated. Levers are of truss variety, and instead of socket generally used, are clamped to square ends of eccentrics.

No. 23—Net weight, 475 lbs. Shipping weight, 550 lbs. ..... Each, $250.00

Capacity

Will punch ⅜-in. hole in ⅜-in. stock—2-in. throat.
Will punch ¼-in. through ¼-in. stock—9-in. throat
Will shear 1½x2-in.' bars.
Will notch 1½x1½x½-in. angle iron.
Will bend 1½x1½x¼-in. angle iron 90 degrees.
Will bend ⅝x1½-in. flat bars.
Will split ¼-in. sheets lengthwise
And their equivalents in other sizes.
Vertical travel of bars, one lever, ⅞ in.
Vertical travel of bars, two levers, ⅝ in.
Space between upper and lower bars, 3¼ in.

Dimensions

Height of machine, 50 in. Length, 48 in.' Width, 17 in

Unless otherwise ordered, Marvel All-Steel Punch, Shear and Bender No. 23 is regularly furnished with one punch and die holder and ¼ in., ⅜ in. and ⅝-in. punches and dies; one V block bender 2 in. long; one shear holder with shear blades 3 in. long; one 90-degree notching punch and die, with necessary bolts and washers.

TINNERS' TOOLS

RAPID SLITTING SHEARS

For General Slitting.

Capacity, 16 Gauge Iron and Lighter

No. 255—Depth of throat, 18 in. Size of table, 20x8 in. Shipping weight, 325 lbs. ..... Each, $170.00

NOTE—The cutters on these shears have two cutting edges making them reversible and the crank is adjustable to different leverages. Where floor space is limited these Shears will prove a good substitute for long-length Squaring Shears.

SCROLL SHEARS

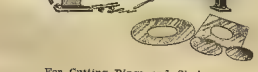
Capacity, 20 Gauge Iron and Lighter

No. 269—Length of cutting blades, 4¼ inches. Depth of cutting head to gauge, 17 inches. Depth of cutting head to frame, 13¾ inches. Weight, 165 lbs. ..... Each, $80.00

These Shears will cut circles, ovals, ogees and all irregular shapes with the greatest ease. Well adapted for cutting from the center of a sheet. Mounted in a standard which screws to the bench and is adjustable to any angle required.

The length of cut is regulated by means of a set screw in frame back of lower blade. Upper blade can be adjusted for wear by means of the two rear adjustable screws.

RING AND CIRCULAR SHEARS



For Cutting Rings and Circles.

Capacity, 20 Gauge Iron and Lighter

No. 298—Will circle from square blanks, 3½ to 22 in. Will cut rings small as (inside diameter), 3½ in. Will cut rings large as (outside diameter), 22 in. Shipping weight, 195 lbs. ..... Each, $100.00

LEVER SHEARS

Capacity, 10 Gauge Iron and Lighter

Will Cut Iron Bars ☆ In. Square and ¼x½ In.

No. 296—Length of cutting blades, 8 inches. Length of gauge rod, 22 inches. Weight, 130 lbs. ..... Each, $100.00

Highly recommended for slitting sheet iron in any length or width. Patterned to allow sheets to pass freely. The lower blade is fastened to a plate that is adjustable to take up wear. The upper blade is fastened to a plate that is reinforced by the frame of the machine, overcoming any spring in cutting.

ECCENTRIC

Nos. 253 and 252

Capacity, Iron and Steel, ¼ Inch and Lighter

No. 253—Length of blades, 3½ in. Length of bed, 10½ in. Height of bed, 6½ in. Length over all, including lever, 18 in. Weight each, 17 lbs. ..... Each, $25.00

The Eccentric cutting device requires very little effort to cut sheet metal up to the full rated capacity.

AUTO BRAKE BAND LINING CUTTER

No. 252—Same description as No. 253. Weight each, 17 lbs. ..... Each, $25.00

Will cut Brake Band Lining up to ⅝ x 3 inches with one stroke of lever. It will prove a very desirable machine on the counters of auto supply houses, hardware stores selling automobile accessories and on the bench in the garage shop.

COMBINATION SHEAR AND PUNCH

STOW'S

For Cutting ⅛-Inch Iron and Punching ☆-Inch Iron

No. 678—5½ in. Cut, with Five Punches, 1/8, 1/4, 1/2, 3/4 and 3/4 in. Weight each net, 120 lbs. ..... Each, $75.00

One in a case

Extra Punches (⅛, ¼, ½, ¾ and ⅝ in.). ..... Each, 1.70
Extra Die Plate (includes all sizes) ..... " 3.20

SEATTLE HARDWARE COMPANY

TINNERS' TOOLS

COMBINATION SHEAR AND PUNCH

LITTLE GIANT

Built in Three Sizes—Simple, Strong, Durable, Cheap

Four thousand in use today in blacksmiths, wagonmakers, carriage makers, machine shops, implement manufacturers and all metal workers.

One hundred pounds on lever gives 25,000 pounds pressure on punch.

Capacities	1	2	3
Size Nos.			
Cuts flat iron, in.	⅝ x 2½	½ x 4	⅝ x 4
Cuts band iron, in.	⅝ x 3	½ x 7	½ x 6
Cuts round iron, in.	1	⅝	¾
Will punch	⅝ in. hole in ½ in.	½ in. hole in ½ in.	⅝ in. hole in ⅝ in.
Will punch from edge, in.	3½	2¾	2½
Size of punches and dies with each machine, in.	⅝, ½, ⅞, ⅝, ¾, ⅞	⅝, ½, ⅞, ⅝, ¾, ⅞	½, ⅞, ⅝, ⅞, ¾, ⅛
Floor space occupied, in.	12x26	10x24	8x22
Weight each, lbs.	525	350	280
Each complete	$75.00	$2.50	50.00
Punches and dies, Each,	.75	.75	.75
Upper shear blade	1.50	1.25	1.25
Lower shear blade for flat iron, Each,	1.00	1.00	1.00
Lower shear blade for round iron, Each,	.40	.40	.40

Larger punches and dies, either square or round, can be furnished. Shears for cutting angle iron up to 1½x1½x¼ in. can be furnished for the No 1 shear

SAMSON

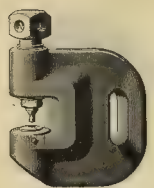
With Removable Stay Bolts, Wrought Iron Links

No. 675—Improved, with 3 Punches, ⅛, ¼ and ⅜ in. Weight each net, 140 lbs. ..... Each, $80.00

Warranted to punch No. 9 Iron with "stay bolts," and No. 12 without "stay bolts." Depth of gap, 15 in. Will center on 30-in. sheets without "stay bolts," and 7-in. sheets with "stay bolts."

Extra Punches—⅛, ¼ and ⅜ in. ..... Each, $1.70
Extra Dies—⅛, ¼ and ⅜ in. ..... " 3.20

STEEL SCREW PUNCHES



Punches.	From Edge of Sheet.	Weight.	Each.
No. 0—½-in. hole in ½-in. iron	1½ in.	16 lbs.	$24.00
No. 1 —½ " " " ½ " "	1½ in.	27 lbs.	30.00
No. 2 —¾ " " " ¾ " "	2 in.	40 lbs.	40.00
No. 3—⅞ " " " ⅞ " "	2½ in.	62 lbs.	60.00

Extra Dies

No. 0—Diameter, 1 ⅛ in. Size, ¼, ⅜, ⅝, ⅞ and ½ in. ..... Each, $1.75

Nos. 1 and 2—Diameter, 1 ⅜ in. Size, ¼, ⅜, ⅝, ⅞, ½, ⅝ and ¾ in. ..... Each, 2.00

No. 3—Diameter, 1 ⅝ in. Size, ½, ⅝ and ¾ in..... " 2.50

Extra Punches

No. 0—Size, ¼, ⅜, ⅝, ⅞ and ½ in ..... Each, $1 75
Nos. 1 and 2—Size, ½, ⅝, ⅝, ⅞, ½, ⅝ and ¾ in. " 2 00
No. 3—Size, ½, ⅝ and ¾ in... " 2.50

These Punches are made of highest grade steel castings, having a tensile strength of 80,000 pounds per square inch. The metal is placed where it will do the most good, which is not easily attained in forgings.

Each machine is fitted with one Punch and Die, and other than these are charged extra.

HAND PUNCHES

WHITNEY PORTABLE

No. 1—Length, 24 in. Capacity, ⅝-in. hole through ¼-in. iron. Can furnish Punches and Dies in 13 sizes, ⅛ to ⅞ in. by ⅛ in. Complete with two Punches and one Die, ⅝ in. Weight, 22 lbs. ..... Each, $35.00

No. 2—Length, 23 in. Capacity, ⅞ in. hole through ¼-in. iron. Can furnish Punches and Dies in 13 sizes, ⅛ to ½ in. by ⅛ in. Complete with two Punches and one Die, ¾ in. Weight, 14 lbs net ..... Each, $38.00

Extra Punches

For No. 1—Sizes, ⅛, ¼, ⅜, ½, ⅝ and ¾ in. Each, $0 75
For No. 2—Sizes, ⅛, ¼, ⅜, ½, ⅝, ¾ and ⅞ in. " .75

Extra Dies

For No. 1—Sizes, ⅛, ¼, ⅜, ½, ⅝ and ¾ in. Each, $1.00
For No. 2—Sizes, ⅛, ¼, ⅜, ½, ⅝, ¾ and ⅞ in. " 1.00

TINNERS' TOOLS

HAND PUNCH

WHITNEY PORTABLE

For Channel Iron

No. 2-CI—Length, 23 in. Capacity, ¼ in. hole through ¼ in. iron. Net weight, 16 lbs..... .....Each, $26.00
Punches to center of 4-in. channel with 1½-in. flange.

Extra Punches

For No. 2-CI—Sizes, ⅛, ⅜, ¼, ⅜, ⅝, ⅞, ½ in.....Each, $0 75

Extra Dies

For No. 2-CI—Sizes, ⅛, ⅜, ¼, ⅜, ⅝, ⅞, ½ in.....Each, $1.00

PEXTO

No. 790—Height, 4 in. Length, 7½ in. Depth of throat, 1 in. Weight, 2½ lbs.. .....Each, $10.00

Packed one in a carton

Note—Furnished with three sets of Dies and Punches, viz., ⅛, ⅜ and ¼ in. The toggle movement on this practical and handy tool works easily and rapidly. It may be carried in the pocket and will prove a very useful tool for outside work

SAMSON

All parts interchangeable. Will punch 20-gauge iron. For use by machinists, roofers, galvanized-iron workers, metal ceiling workers, etc. Depth of throat, 2⅝ in.

Samson No. 4 Hand Punch—Polished. Complete with ¼-in. punch and dies, in wooden box. Weight, 1½ lbs. .....Each, $3.00

Extra Punches and Dies—Sizes, ⅛, ⅜, ⅝, ⅞, ¼ and ½ in. (1 Punch, 1 Die).....Per set, $1 00

SQUEEZING TONGS

No. 766—Length of squeezing jaws, 11½ in. Depth of squeezing jaws, ⅝ in. Weight, 17 lbs.. .... Each, $12.00

GUTTER TONGS

No. 777 Depth of jaws, 14 in. Length of blades, 12½ in. Weight, 10 lbs. . . . . Each, $12.00

ROOFING TONGS

Steel, Improved, Adjustable

No. 773—Length of handle, 21 in. Width of blade, 2 in. Length of blade, 18⅛ in. Net weight, 3½ lbs.. Each, $12.00

Will turn five different width locks, ½, ¾, 1, 1¼ and 1½ in.

Above packed as wanted.

ROOFING TONGS

Reese's Patent Adjustable

No. 775—Depth of jaws, 11 in. Will turn any edge from ⅛ to 10½ in. Length of blade, 13⅛ in. Weight, 11½ lbs. .....Each, $16.00

No. 770½—Will turn one size lock, ½ in. Length of blades, 18½ in. Weight, 8 lbs. ....Each, $10.00

No. 770¾—Will turn one size lock, ¾ in. Length of blades, 18¾ in. Weight, 8 lbs. .....Each, 10.00

No. 771—Will turn one size lock, 1 in. Length of blades, 18½ in. Weight, 8 lbs. .....Each, 10.00

No. 771¼—Will turn one size lock, 1¼ in. Length of blades, 18½ in. Weight, 9 lbs. .....Each, 10.00

No. 771½—Will turn one size lock, 1½ in. Length of blades, 18½ in. Weight, 9½ lbs. ....Each, 10.00

No. 771¾—Will turn one size lock, 1¾ in. Length of blades, 18½ in. Weight, 10 lbs. ....Each, 10.00

No. 772—Will turn one size lock, 2 in. Length of blades, 18½ in. Weight, 10½ lbs. ....Each, 10.00

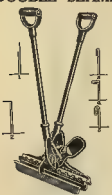
HANDY SEAMER

No. 791 Length of Blade, 3½ in. Width, ⅞ in. Over all, 7¼x3⅛ in. Weight, 1 lb. . . . .Each, $3.00

SEATTLE HARDWARE COMPANY

TINNERS' TOOLS

DOUBLE SEAMER



Burritt's Improved

For Tin Roofing

No. 742—Common Gauge. Weight per set, 40 lbs....Per Set, Two Pairs, $30.00
Two pairs constitute a set.

HAND DOUBLE SEAMER

To Match Roofing Tongs ⅝x1 and 1x1¼ Inches

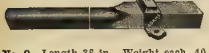
No. 744—Weight each, 16 lbs. .....Per set of two, $7.50

MANDRELS

Hollow, Cast Iron, with Wrench

No. 910—Flat Part 9 in. Long, 6 in. Wide; Oval Part 21 in. Long. Full Length 40 in. Weight each, 60 lbs. .....Each, $26.00

ADAMS STOVEPIPE



No. 2—Length 36 in. Weight each, 40 lbs..... Each, $13.50

STAKES

BEAKHORN

Wrought Iron with Steel Faces

No. 902—Length round end, 16¼ in. Length flat end, 20 in. Width of flat end tapers, 2⅝x2⅜ in. diameter of round end at largest point, 2¼ in. Diameter of round end at smallest point, ⅞ in. Weight, 37 lbs. .....Each, $50.00

STAKES

HATCHET

No. 944—Length of blade, 11 in. Width of blade. Width of blade at center, 2⅛ in. Width of blades at ends, 1⅝ in Weight, 6½ lbs. .....Each, $15.50

CREASING

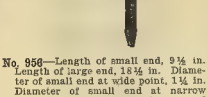
No. 927 Length of round end, 12 in. Flat end, 6⅝ in Each, $27.50

No. 928—Length, 15 in Size of grooves for wire, Nos. 1, 3, 4, 6, 7, 9. Weight, 11½ lbs. .....Each, $27.50

BLOWHORN

No. 925—Length of large end, 9 in. Length of small end, 18 in. Diameter of small end at wide point, 1⅛ in. Diameter of small end at narrow point, ⅝ in. Diameter of large end at wide point, 4⅜ in. Diameter of large end at narrow point, ½ in. Weight, 14 lbs..... Each, $25.00

CANDLE MOULD



No. 956—Length of small end, 9½ in. Length of large end, 18½ in. Diameter of small end at wide point, 1⅜ in. Diameter of small end at narrow point, ⅛ in. Diameter of large end at wide point, ⅜ in Diameter of large end at narrow point, ½ in. Weight, 7 lbs..... Each, $15 00

CONDUCTOR

Cast Iron. Polished Face

No. 971 Turned. Length of large end, 15 in. Length of small end, 11½ in. Diameter of large end, 2¾ in. Diameter of small end, 1⅝ in. Weight, 28 lbs . Each, $19 00

STAKES

DOUBLE SEAMING

Wrought Iron and Steel

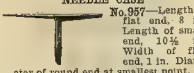
No. 921—Length of large end, 17 in. Length of small end, 12 in. Diameter each end, 1⅝ in. Weight, 37 lbs. ..... Each, $44.00

DOUBLE SEAMING

Wrought and Cast Iron with Four Heads

No. 949—Size of heads: A, 6 in. diameter. B, 8½x2⅝x3¼ in. C, 5½x4½ in. D, 5¾x4¼x3⅝ in. Weight, 110 lbs..... Each, $45.50

NEEDLE CASE



No. 957—Length of flat end, 8 in. Length of small end, 10½ in. Width of flat end, 1 in. Diameter of round end at smallest point, ⅞ in. Diameter of round end at largest point, ⅞ in. Wt., 4 lbs. Each, $14.00

SQUARE BEVEL EDGE

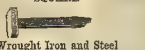
No. 931 Size of face, 3x5 in. Weight, 16 lbs ... Each, $25.00

POLISHED ROUND HEAD

Cast Iron

No. 965 Head, 3 in. Length, 12½ in Weight, 9½ lbs. Each, $7.20

SQUARE



Wrought Iron and Steel

No. 935—Face, 2¾x4½ in. Weight, 11 lbs..... Each, $16.50

No. 936—Face, 2¾x4½ in. Weight, 11 lbs..... Each, $16.00

BENCH PLATES

Cast Iron. Planed Surface

No. 981—37½x8 in. Weight net, 46 lbs. ..... Each, $23 00

SHEARS OR SNIPS

J. WISS & SONS CO.

Wiss Tinner Snips may be tested to cut 20# wire nails without marring the edges, and then cut clean the lightest of tissue paper. This test shows the fine adjustment of the Wiss Snip, its strength and toughness and its marvelous keen edge.

Wiss Snips are superior in quality and construction, in shape, in cutting edge, in strength, in tests and in finish. They work easier, give more work and better work.

A piece of Tool Steel is Chrome Boron Steel welded to the inside of the Blades of the toughest of Steel Forgings gives the Wiss Snip its perfect, lasting cutting edge—an edge that will not break or chew the work but which is always sharp. The blades are perfectly shaped, with points made strong and the handles formed so that they will not tire the hand even after continuous use. The most severe factory tests to which we subject our snips enables us to unrestrictedly guarantee every pair to do their work satisfactorily.

REGULAR STRAIGHT PATTERN
Left Hand Cut for Right Hand Man

Nos.	12	11	10	9	8	7	6½
Length of Cut, In.	2	2¼	2½	3	3¼	4	4½
Full Length, In.	8	9½	11½	12½	13½	14½	16½
Weight, Pair, about, Lbs.	⅝	1	1⅛	1¼	2¼	2¼	3¼
Per Pair	$1.00	1 20	1 40	1.60	2.00	2.50	3.00

CIRCULAR
Left Hand Cut for Right Hand Man

Made especially for those who continually cut curved work, Tempered and Ground Perfectly and work as Easily as a Straight Snip

Nos.	12CB	11CB	10CB	9CB	8CB	7CB	6½CB
Length of Cut, In.	2	2¼	2½	3	3½	4	4½
Full Length, In.	8	9½	11½	12½	13½	14½	16½
Weight per Pair, about, Lbs.	⅝	1	1⅛	1¼	2¼	2¼	3¼
Per Pair	$1.75	2.00	2.25	2.50	3.00	3.50	4.25

COMBINATION PATTERN
Left Hand Cut for Right Hand Man

Made with Straight Blades, but are Ground and Shaped in such a manner that they can be used as easily for cutting curves and Irregular Shapes as for Straight Work, thus combining all the advantages of both the Circular and Straight Snip in one tool.

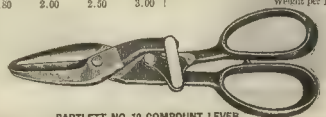
Nos.	100	19	18	17
Length Cut, In.	2½	3	3½	4
Full Length, In.	11½	12½	13½	14½
Weight Pair, about, Lbs.	1⅝	2	2½	3
Per Pair	$1.80	2.00	2.50	3.00

GENERAL PURPOSE POCKET SNIPS

Adapted to the use of the Mechanic, Plumber, Electrician and Automobilist. The Tinsmith and Sheet Metal Worker will find it a very useful Vest Pocket Shears.

Per Pair
No. 82—Length of Cut, 2 in.; Length Overall, 7 in. $1.00

Weight per Pair, ¾ Lb.



BARTLETT NO. 10 COMPOUNT LEVER

Made from Drop Forged Crucible Tool Steel, Cuts 18 gauge or multiples of thinner gauges, and is used extensively by Furnace Men and Cornice Makers.

Per Pair
No. 10—Total Length, 10½ in.; Blades, 3 in.; Cut, 2¼ in.; Weight, 1 Lb. 2½ oz. $3.00

SHEARS OR SNIPS

HOUSEHOLD

This is a Light Weight Snip Suitable for General Use

	Per Pair
No. 111—Full Length, 10 in.; Cut, 2¼ in.; Forged Steel Laid Blades, Polished; Japanned Handles	$1.00

Weight 10 Lbs. per Dozen
Half Dozen in a Box

FARMERS' GRADE

Adapted for General Household Use

	Per Pair
Star—Length, 12 in.; 3 in. Cut; Hardened Iron Blades; Japanned Handles	$0.60

Weight 16 Lbs. per Dozen
Half Dozen in a Box

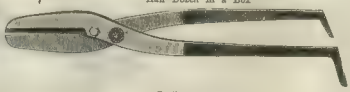
DOUBLE CUTTING SHEARS

For Cutting Pipe for Stoves and Furnaces

Forged from High Grade Steel, Scientifically Tempered and Hardened; Finished with Black Handles and Polished Heads. Will cut a joint of pipe with ease and accuracy, leaving the edge smooth and clean

Nos.	2	02
Length, In.	15¾	12¾
Weight per Pair, Lbs.	3	3
Per Pair	$3.60	3.00

Note—No. 2 has **Crimping Attachment** for Crimping any kind of Sheet Metal Pipe, Round or Square



BENCH SHEARS

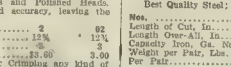
Right Hand Cut

Best Quality Steel; Black Japanned Handles, Polished Heads

Nos.	0	1	2	3	4
Length of Cut, In.	10½	9	8¾	7¾	7¾
Length Over-All, In.	42½	39	37	34	30
Capacity Iron, Ga. No.	18	18	19	19	20
Weight per Pair, Lbs.	20	24	19	13	13
Per Pair	$24.00	16.00	14.00	13.00	12.50

One Pair in a Package

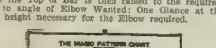
TINNERS' RULES



A Steel Rule that will prove invaluable for laying out work in general. The upper line is the ordinary Rule graduated by eighths of an inch. The lower line shows at a glance the exact circumference of any cylinder by simply ascertaining the diameter, i. e., a vessel 5 in. in diameter the Rule indicates to be 15¾ in. in circumference. The reverse side contains much useful information in large plain figures regarding the sizes of sixty different articles, such as cans, measures, pails, etc., with straight or flaring sides, flat or pitched top. Liquid and dry measure in quarts, gallons and bushels. First is given the dimensions for vessels holding 1 to 5 gallons liquid measure, second, one-quarter to 2 bushels dry measure, third, pans with pitched tops 1 to 10 gallons, fourth, cans with flat top 1 to 200 gallons; fifth, vessel holding 1 to 8 quarts and ½ bushel to 2 bushels dry measure. Each

No. 107—36 in., Nickel Plated Steel, Width 1¼ in., ⅛ in. Thick; Weight Each About 1½ Lbs. $4.50

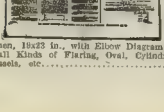
TINNERS' RULE AND CHART



Each

Magic Rule and Chart, Complete in Hinged Wooden Case.... $7.00

The Magic Pattern Rule consists of a Nickel Plated Steel Bar 4 ft. Long, ⅞ in. Square, marked in Circumference inches on the Front and in inches and eighths on the Back, and Two Slides with Set Screws, into which Trammed Points are Fastened. For laying out Elbow Patterns, the Left Hand Slide is Fastened to the End of the Bar by the Set Screw, and the Right Hand Slide is Set the Diameter of Elbow Wanted. A Flexible Steel Ribbon on the Top of Bar is then raised to the required height, according to angle of Elbow Wanted: One Glance at the Chart, giving the height necessary for the Elbow required.



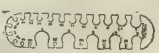
Each

Chart Only, Linen, 10x23 in., with Elbow Diagram and Rules for Cutting all Kinds of Flaring, Oval, Cylindrical, Cone Shaped Vessels, etc. $1.00

WIRE GAUGES

ROUND, English Standard

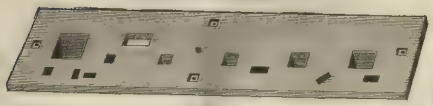
	Per Dozen
No. 1—Large, Cast Steel Gauge, Nos. 0 to 36, Diam. 3 in.	$24.00
No. 2—Small, Cast Steel Gauge, Nos. 6 to 36, Diam. 3 in.	15.00



OBLONG, English Standard

	Per Dozen
No. 4—Gauges Nos. 1 to 26, Size ⅞x3⅜ in.	$17.00

TINNERS' TOOLS



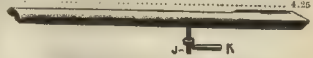
BENCH PLATES

Solid Cast Iron, Japanned, with Polished Face

No. 981—Size 87¼x38 in.; Weight Each About 46 Lbs..... Each $6.50
No. 982—Size 30 x8 in.; Weight Each About 31 Lbs..... 4.25

SOLID MANDREL STAKES

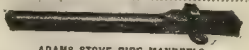
No. 982—Length of Standard, 30 in., Diameter 5⅝ in.; Each
Weight 43 Lbs..... $6.00



HOLLOW MANDREL STAKES

Cast Iron, with Polished Faces

No. 916—Length Over-All 40 in.; Flat Part 6x9 in.; Length of Oval 31 in.; Radius of Circle 2 in.; Weight Each 60 Lbs..... $7.00



ADAMS STOVE PIPE MANDRELS

Adams—36 in. Long, 4½ in. Wide, with Heavy Saddle to Each
Attach to Bench; Weight 40 Lbs..... $6.00

BEAKHORNE STAKE

Wrought Iron, with Steel Faces

No. 901—Round End 16½ in.; Flat End 21⅝ in.; Weight 46 Lbs. Each $20.00

BLOW HORN STAKE

Wrought Iron, with Steel Faces

No. 925—Large End 9 in.; Small End 18 in.; Weight 14 Lbs. Each $8.00

CREASING STAKES

Wrought Iron, with Steel Faces

No. 928—15x1⅛ in.; Weight 11½ Lbs. Each $5.00

DOUBLE SEAMING STAKES

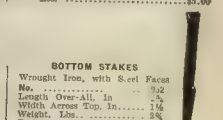
Wrought Iron, with Steel Faces

No. 921—Large End 17 in.; Small End 12 in.; Weight 37 Lbs. ? Each $12.00

CONDUCTOR STAKES

Cast Iron, with Polished Faces

No.	971	972
Large End, In.	18	14
Small End, In.	11½	10½
Weight, Lbs.	28	17
Each	$8.00	5.00



BOTTOM STAKES

Wrought Iron, with Steel Faces

No.	932
Length Over-All, In	24
Width Across Top, In.	1¼
Weight, Lbs.	2¾
Each	$1 50

CANDLE MOULD STAKES

Wrought Iron, with Steel Faces

No. 956—Round End 18⅛ in.; Flat End 9½ in.; Weight 7⅛ Lbs. Each $4.00

NEEDLE CASE STAKES

Wrought Iron, with Steel Faces

No. 957—Large End 10½ in.; Flat End 8 in.; Weight 4 Lbs. Each $4.00

HATCHET STAKES

Wrought Iron, with Steel Faces

Nos.	941	943
Length of Blade, In.	16	12
Width Blade, In.	2⅝-1⅝	2⅛-1¼
Weight, Lbs.	14	8⅝
Each	$7.00	6.00

TINNERS' TOOLS

BEVEL EDGE SQUARE STAKES
Wrought Iron, with Steel Faces.
Each
No. 932 Size of Face 2½x4½ in.; Weight 14 Lbs.... ....$7.00

SQUARE STAKES
Wrought Iron, with Steel Faces
Each
No. 936—Size of Face 2¾x4½ in.; Weight 11 Lbs $5.00

ROUND HEAD STAKES
Cast Iron, with Polished Faces
Each
No 965—Length 12¼ in.; Diameter of Head 3 in ; Weight 9½ Lbs..$1.75

DOUBLE SEAMING STAKES
With Four Heads

	Each
No. 949—Complete with 4 Heads; Weight 110 Lbs.....	$14.00

Extra Heads

Nos.	A	B	C	D
Length from Top to Standard	4¼	2⅝	2½	2⅝
Size of Head	6	8¼x2⅝x3¾	6½x4½	5⅜x4⅛x3⅜
Each	$2.00	2.00	2.00	2.00

TINNERS' MALLETS
Second Growth Hickory Heads

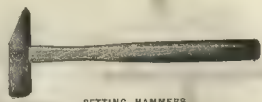
Nos.	1T	2T	3T	4T	5T
Diameter, In....	2	2	2¼	2½	2¾
Length, In...	5	6	5½	6	5½
Weight Each, Lbs	10	11	12	13	12
Per Dozen.	$1.50	1.60	2.00	2.20	2.60

Open Stock

RIVETING HAMMERS
Full Polished, Extra Hickory Handles

Nos.	230H	231H	232H	233H	234H	235H
Size, Nos	0	1	2	3	4	5
Weight, Lbs	¾	1	1¼	1½	1¾	1¾
Per Dozen	$5.00	5.75	6.00	6.25	6.50	7.00

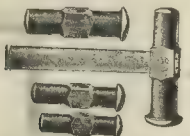
Half Dozen in a Box



SETTING HAMMERS
Polished Heads; Extra Hickory Handles

Nos.	5	4	3	2	1
Size of Face, In.....	⅝	¾	⅞	1	1¼
Weight, Handled, Oz.....	6	10	14	18	24
Per Dozen.....	$4.75	5.31	6.75	8.81	9.75

Half Dozen in a Carton



RAISING HAMMERS
Handled

Nos.	4R	3R	2R	1R
Size of Face, In	1⅝x1¼	1⅝x1⅝	2x1¼	2¼x1⅝
Weight Each, Oz ...	28	36	60	82
Each	$1.50	2.50	2.50	4.50

One-Twelfth Dozen in a Package

RIVET SETS AND HEADERS
Highest Grade Cast Steel, Gun Metal Finish

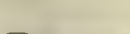
Nos.	00	0	1	2	3
For Iron Rivets, Lbs.....	14	10, 12	8	6	4, 5
For Copper Rivets, Nos.....	7	8, 9	6	7	8
Each	$0.75	.74	.63	.62	.80
Nos.	4	5	6	7	8
For Iron Rivets, Lbs	2¼, 3	1¾, 2	1¼	1¼	10 & 12 Oz.
For Copper Rivets, Nos. ...	9	10 & 11	12	13	14
Each	$0.75	.27	.27	.32	.32

One-Half Dozen in a Box; Average Weight per Dozen About 5 Lbs.

HAND GROOVERS

For Grooving Store Pipe or Any Work Impossible to place in a Grooving Machine

Size, Nos.	00	0	1	2	3	4	5	6	7	8
Size Groove, In	1/8	3/16	7/32	1/4	5/16	3/8	7/16	1/2	9/16	5/8
Weight, Lbs.	⅝	⅝	⅝	⅝	⅝	⅝	⅝	⅝	⅝	⅝
Each	$0.87	.87	.74	.74	.59	.59	.44	.44	.44	.44

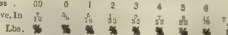


No. 100—Forged Steel

HOLLOW PUNCHES

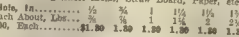
For Cutting Sheet Metal, Straw Board, Paper, etc.

Size Hole, In	⅛	¾	1	1⅛	1¼	1⅜	2
Wt. Each About, Lbs.	⅜	⅞	1	1¼	2	2¾	3½
No. 100, Each	$1.80	1.80	1.80	1.80	1.80	1.80	1.80



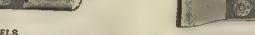
LANTERN CHISELS

Size, In	½x5¾	1x5¾
Each	$0.30	.30



WIRE CHISELS

Width, In..	⅛	¾	½	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½	1¾	2
Each	$0.08	.09	.10	.11	.12	.13	.14	.15	.17	.19	.20	.24	.30

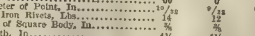


SOLID PUNCHES

Drop Forged Highest Grade Steel, Oil Tempered; Finished Ends, Black Finished Body

Nos.	00	0	1	2	3	4	5	6	7	8
Diameter of Point, In	1/32	3/32	1/32	3/32	1/32	3/32	1/32	3/32	1/32	3/16
For Iron Rivets, Lbs	1/4	1/2	3/4	1	2	3	4	5	6	7
Size of Square Body, In	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1/2
Length, In	4½	4½	4½	4½	4½	4½	4½	4½	4½	4½
Weight per Dozen, Lbs	2	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¾
Per Dozen	$1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

One Dozen in a Cardboard Box



HICKORY PRICK PUNCHES

Forged from Extra Refined Steel, Polished Head and Point, Gun Metaled; Natural Finish Body

Per Dozen

No. 45H—⅜ in. Diameter, 4½ in. Long $3.00

One Dozen in a Box, Weight per Dozen 1¾ Lbs.

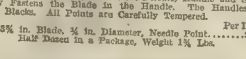
HURWOOD SCRATCH AWLS

Blade, Shank and Head formed of One Piece of Steel. Two Patented Projecting Wings Under the Head, Together with a Rivet which Passes Through the Steel Ferrule, Handle and Shank Securely Fastens the Blade in the Handle. The Handles are Stained Blacks. All Points are Carefully Tempered.

Per Dozen

No. 8—8⅜ in. Blade, ¾ in. Diameter, Needle Point $3.40

Half Dozen in a Package, Weight 1¾ Lbs.

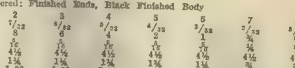


ROOFING SCRAPERS

Forged from the Highest Grade of Steel, Well Tempered and Finely Finished

Per Dozen

No. 896—Size ⅞x⅜x10 in.; Weight 2 Lbs. $4.00

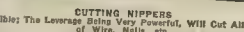


CUTTING NIPPERS

Reversible; The Leverage Being Very Powerful, Will Cut All Kinds of Wire, Nails, etc.

Handles and Head Forged from Tool Steel, Natural Finish; Interchangeable Cutting Jaws, with Two Fine Cutting Edges to Each Blade, Attached to Head with Four Heavy Steel Screws; Cutting Jaws or Blades Forged from Special Tool Steel, Tempered and Polished.

Length, In	8	10	12
Width Jaws, In	1⅛	1½	1¾
Weight, per Dozen, Lbs	15	25	30
Each	$1.75	2.00	2.25
Nettleton Extra Cutters, per Pair	.60	.80	.90



RING SCRATCH AWL

Used for Marking or Punching Tin, Sheet Steel, etc.

Per Dozen

No. 01—3¼ in. Solid Cast Steel, Twisted Shank $1.25

Weight per Dozen 1¾ Lbs.

PLUMBERS' SCRAPERS

Extra Quality Forged Steel Blade; Wood Handle

Per Dozen

No. 11—Length 5 in.; Weight Each About 2 Lbs. $2.25

Kelley-How-Thomson Co. of Duluth

BLOW TORCHES

Burns Gasoline. For Use of Electricians, Gas Fitters, Dentists, Painters, Plumbers, Mechanics and Linemen

No. 315

No. 215

Seamless Brass Tank, with Concave Bottom, and Filler Plug. Automatic Spring Valve Pump in Handle. The Burner is an Improved Closed Generator Type Designed for Either Outdoor or Inside Use. Detachable Soldering Iron Holder.

	Each
No. 315—Capacity **1 Pint**; Net Weight 2 Lbs.	$12 00
No. 215—Capacity **1 Quart**; Net Weight 3¼ Lbs.	13.60

No. 224

No. 224

Heavy Seamless Brass Tank, with Heavy Corrugated Brass Concave Bottom. Filler Plug in Bottom. Automatic Spring Valve Pump in Handle. Burner is an Improved Closed Generator Type and throws out a very hot flame.

	Each
No. 224—Capacity **1 Pint**; Net Weight 2¼ Lbs.	$13 60
No. 224—Capacity **1 Quart**; Net Weight 3 Lbs.	15 20

No. 302

No. 202

Heavy Seamless Brass Tank with Heavy Concave Bottom; Filler Plug in Bottom; Automatic Brass Pump in Tank; Soldering Iron Attachment.

	Each
No. 302—Capacity **1 Pint**; Net Weight 2½ Lbs.	$14 40
No 202—Capacity **1 Quart**; Net Weight 4 Lbs.	16 00

No. 304

No. 204

Heavy Seamless Brass Tank, Reinforced with Concave Bottom and Handsomely Finished, Automatic Spring Valve Pump in Handle; Burner of Heavy Bronze and Generates a Clear, Blue Flame. Soldering Iron Attachment.

	Each
No. 304—Capacity **1 Pint**; Net Weight 2½ Lbs.	$13.60
No. 204—Capacity **1 Quart**; Net Weight 3 Lbs.	15.20

AUTO TORCH

Heavy Seamless Brass Tank, with Automatic Spring Valve Pump in Handle. Improved Burner.

This Torch gives a Very Hot, Blue Flame and is so constructed as to lay flat in a tool box. The attachment to prevent tipping over has the approval of all users and mechanics. It consists of a powerful metal spring attached to the bottom with no projecting side lugs and so formed that when sprung into use it is safe against accidental closing or being broken off. Suitable for outside or inside use.

	Each
No. 418—Capacity **1 Pint**..... Net Weight 2¾ Lbs.	$15 40

Heavy Seamless Brass Tank, with Funnel-Shaped Bottom or filling; Fitted with Non-Leak Filler Plug. Made with Patent Coil, closing under generator and Back Flow Burner making it the Hottest Torch made. Recommended for Electricians, Telephone and Telegraph Repairmen, Street Railroad, Trolley Line Work, etc.

	Each
No. 29—Capacity **1 Quart**..... Net Weight 4 Lbs.	$18.80

Heavy Seamless Brass Tank; Funnel-Shaped Bottom with Turner Non-Leaking Filler Plug; Pump Located in Handle with Air Valve at bottom of barrel. Round type of burner producing a very hot flame; Hook and support for holding soldering iron.

	Each
No. 21—Capacity **1 Quart**..... Net Weight 3¼ Lbs.	$18.00

BLOW TORCH BURNERS

BURNS KEROSENE
One Filling Will Burn Two Hours Steady

BURNS KEROSENE
One Filling Will Burn Two Hours Steady

ALCADE KEROSENE
(Burner Only, Without Tank)

Interchangeable with the Burner on Any Gasoline Blow Torch

To convert a Gasoline Torch into a Kerosene Torch, takes but a few minutes time, all that is necessary is to unscrew the gasoline burner from its tank and replace with an "Alcade." Produces a Hotter Flame. Reduces the Cost of Operation, and there is less liability of explosion.

The "Alcade" Burner generates an intense heat from kerosene, much hotter than can be generated from gasoline. Will not corrode or tarnish, and the Torch for Brazing, also for the use of Painters for Removing Paint, Varnish, etc. Wind has no effect upon the flame.

	Each
No. 1—Made of Brass; Length of Generator 5 in., Diameter 1⅞ in.	$5.00
No. 2—Made of Brass; Length of Generator 5½ in., Diameter 1¾ in.; For Heavier Work than the No. 1. Weight Each 2¼ Lbs.	6.00

BLOW TORCH

DOUBLE JET
For Gasoline

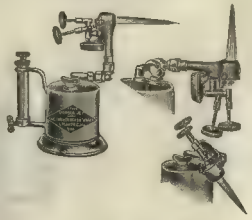
The Double Jet Burners are very simple and easily regulated. They consume every particle of gasoline owing to their perfect combustion, and produces a much higher degree of heat than other hydro carbon burners.

Heavy Gauge Seamless Brass Tank, with Funnel Bottom and Non-leak filler plug; Bronze Metal Burner; Pump is in Handle with Air Valve located at base. Recommended for Light Brazing, Annealing Light Materials, Brazing on Rubber Tires and Paint Burning.

Each

No. 92 Capacity 1 Quart; Net Weight 3 Lbs. $17 10

BLOW PIPE



DOUBLE JET
For Alcohol

Heavy Seamless Brass Tank, with Filler Plug at top of tank. Automatic Spring Valve Pump in Handle, with Shut-off Valve at base.

Designed for Burning Wood Alcohol. The construction of burner mixes the fuel with air in correct proportions and perfect combination is secured. The air pressure in the reservoir produced by the pump gives a constant clean blast flame sufficient to melt 25% platinum solder and suitable for fine soldering, espoually where intense heat is required, also for Tempering and Drawing Temper in fine Tools, Annealing and all similar work. For Electricians, Jewelers and Dentists. Adopted for Lead Burning on Storage Batteries.

Each

No. 8—Capacity **1 Pint;** Net Weight 2 Lbs.... .....$23 35

FIRE POTS

FOR KEROSENE

Produces more heat, with less fuel, at a lower price, than is possible with any Furnace burning gasoline.

The Tank is made of Heavy Seamless Drawn Steel with a steel band autogenously welded around the bottom. Equipped with Extra Heavy Upright Rods and the Filler Inlet is large and convenient. Hood is made of Drawn Steel and is practically indestructible. The Burner is constructed to burn kerosene or gasoline and can be used equally as well when exposed to a draught or out of doors in windy weather. The feed valve is placed in a convenient position so as to control the fuel supply and adjust the flame.

Each

No. 83—Capacity **7 Pints;** Weight 17½ Lbs.. . . . . $33.60

Net Weight 16½ Lbs.

GASOLINE

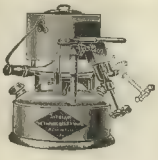
Tank is made of Heavy Seamless Drawn Steel, with Extra Heavy Bottom, Funnel-Shaped Filler Opening with Improved Filler Plug. The connections are reinforced, it has heavy uprights. All fittings are autogenously welded. Produces steady flame in wind and coldest weather.

Capacity **7 Pints;** Height 16½ in.

Each

No. 56—With **Rubber Bulb and Hose** $19.60
No. 66—With **Automatic Pump**.....21.20

Weight 7½ Lbs.



GASOLINE

Tank of Heavy Steel, reinforced and Autogenously welded at every joint. The Burner is made of Bronze Burner Metal, attached to swivel joint and gives a flat flame of intense heat, with positively the minimum consumption of gasoline.

The Top Sections is large enough to heat a pair of 8 Lb. Soldering Coppers and melt a Five-inch Pot of Metal at the same time. This section can be removed and tank and burner used as a torch.

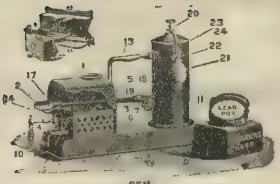
Can be used in the wind or in the coldest weather.

Each

No. 36 —Capcity **5 Pints;** Weight 9 Lbs.$24.80
No. 34—Capacity **7 Pints;** Weight 10 Lbs..... 27.20

SOLDERING FURNACES

For Roofers', Tinners' Plumbers' and Electricians' Use



GEM

Especially recommended for Roofers' and Tinners' Use; the Burner emits a 4 inch Flame for Each Soldering Copper; For Bench Use or Outside Work it is unsurpassed; Distributes Flame full length of Coppers; Patent Drip Cup Generates Gas without smoke, odor or noise; Has Improved Slotted Cast Iron Burner, cannot clog with Solder, takes all sizes of Coppers, furnishing a Powerful Flame, and will last for years.

Each

No 3—**Tank Capacity 3 Quarts**, Height 16 in.; Heavy Sheet Steel Base, Size 21x7 in.; Fire Proof Copper Reservoir, Has Regulating Valve; Black Rubber Bulb and Stem, Adjustable Handle, Covered with Enameled Wood.....$12.00

One in a Crate; Weight 22 Lbs. Each

EXTRA PARTS FOR GEM FURNACES

	Each
Rubber Bulb and Stem	$0 60
Generator Valve	1.00
Metal Pots, for Plumbers' Use	1 25
Hoods, for Plumbers' Use	1.10

Loose

TINNERS' STOVES

Burns Charcoal

The Fire Pot is Constructed so that the Ashes Fall into a Pan Beneath the Coal, Keeping the Fire Clear and the Draft Good; Light and Easy to Carry

Each

No. 782—Sheet Iron Body, Japanned; Cast Iron Base, Top, Legs and Door; Heavy Wrought Iron Bail. Height 15½ in.; Diameter 8 in.....$4.25

Weight Each About 15 Lbs.

LUNDY DOUBLE BLAST

Will Heat Soldering Iron twice as fast and with one-half as much Gasoline as Common Furnace and will always have a Hot Iron Ready for the Tinner, thus saving much time. The Flames are forced from the outside to the center so that when One Iron is in use, the other receives both hot blasts directly on it. Independent Generating Valve allows adding of more Gasoline to Drip Cup, if Operator does not get enough to Generate the first time, without waiting for Generator to Cool Off. The Generator is made of Brass and will not Rust, has a ⅜ in. opening which cannot become clogged but will always burn a Blue Flame. Large Powerful Brass Pump, size 1x10 in., is attached rigidly and cannot get out of order.

Each

No. 25—Tank Capacity 1 Gallon; Galvanized Steel Tank, Aluminum Painted, Size 5x12 in.; Strong Base with Heavy Wire in Bottom; Height 15½ in., Size of Base, 7⅜x19 in.....$17.00

One in a Crate; Weight 29 Lbs. Each

TINNERS' GAS SOLDERING FURNACES

Two Burner

These Furnaces will burn Natural or Artificial Gas and will prove serviceable for general use in heating soldering coppers. Consumes About 8 feet of Gas per Hour; Cast Iron Base and Burners; Polished Steel Top; Brick Lined. Burners are Drilled, and are Operated with Stop Cock and Adjustable Air Mixer; Very Economical.

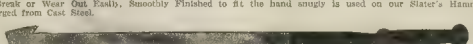
Each

No. 794—Length 11 in.; Width 6½ in.; Height 7 in.....$4.00

Weight Each About 12 Lbs.

SLATERS TOOLS

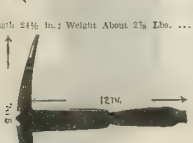
These Tools used Extensively in the Laying and Repairing of Slate and Other Kinds of Roofing are Drop Forged from the Highest Grade Materials. The Blade of the Ripper is Drawn Down Very Thin from Tool Steel lasting a Forged Handle. Hammers are made of Solid Forgings from Crucible Cast Steel with Properly Tempered Head, Point and Cutting Edges. A Leather Handle that will not Break or Wear Out Easily, Smoothly Finished to fit the hand snugly is used on our Slater's Hammer. Stakes and Punches are Forged from Cast Steel.



SLATERS' RIPPERS

Each

No. 905—Length 24½ in.; Weight About 2⅞ Lbs. $2.00



SLATERS' HAMMERS

Each

No. 987—Weight 1¾ Lbs. $4.50

SLATERS' STAKES

Each

No. 988 Weight 2½ Lbs. $1.00

SLATERS' PUNCHES

Each

No. 989 Length 4½ in. $0.50

TINNERS' TOOLS

DOUBLE SEAMERS

These Roofing Double Seamers for Standing Lock will do the work more evenly than by any other process, and leave the formed lock of uniform size. They will work well over nailed on roofing and will double seam hips and ridges with perfect ease.

Per Set of 2 Pairs

No. 742—To Follow 1 and 2¼ in. Tongs Finishing a Lock ¾ in. High $25.00

No. 742½—To Follow 1¼ and 1½ in. Tongs Finishing a Lock 1 in. High $25.00

Weight per Set of 2 Pairs, 40 Lbs.

ADJUSTABLE ROOFING TONGS

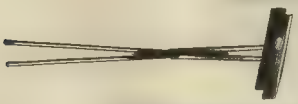
Will Turn Five Different Widths of Locks ½ - ¾ - 1 - 1¼ - 1½ Inches

No.	771
Length of Handle, In.	21
Width of Blade, In.	-
Length of Blade, In.	1⅝
Weight per Pair, Lbs.	6½
Per Pair	$5.00

ROOFING TONGS

Nos.	771	771½	771½
Turn Lock In.	1	1¼	1½
Length Handles, In.	21	21	21
Width Blade, In.	1½	1⅝	2
Length Blade, In.	1⅝	1⅝	1⅝
Weight Pair, Lbs.	8	9	9½
Per Pair	$4.00	4.00	4.00

TINNERS' TOOLS



GUTTER TONGS

Per Pair

No. 277 Size Blade 1⅝x1½ in., Depth of Jaws, 14 in., Length of Handle 14 in..... $6.00

Weight per Pair 10 Lbs.

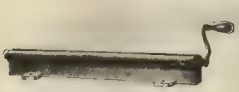
ROOFING FOLDERS

Made of Well Seasoned Wood with Blades Fitted of a High Grade, Special Steel, Accurately Machined and Finely Finished

Each

No. 123—Length 20 in.; Will form ⅞ and ¾ in. Locks.....$6.50

Weight Each About 17 Lbs.



IRON BOTTOM GUTTER BEADERS

Solid Cast Steel, Japanned, with Ground Edges, Securely Bolted; Polished Steel Rod; Malleable Iron Crank with Wood Handle. Can be used on Any Material up to 24 Gauge.

Each

No. 709—30 in. Long; Diameter of Rod ⅛ in.; Length Over-All 31 in.; Weight 17 Lbs.....$8.00

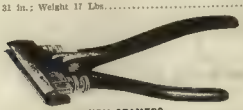
ADJUSTABLE GUTTER BEADERS

This Machine is so constructed that it can be easily adjusted to be used with Rods from ⅜ to ⅞ inch in Diameter. The Thickness of the Metal is Determined by the Size of the Rod. Thickness of the Metal is Determined by the Size of the Rod It has a Gauge or Stop on the Left-Hand End, so that after Adjusting the Jaws and Setting the Gauge for the Size of the Rod to be used the Jaws can be easily opened to remove the work and Rod, and then closed to exactly the same position as when the Bead was formed so that the operator can form any number of Beads of exactly the same size. The Jaws are Adjusted by a Hand Wheel with Rack and Pinion which Adjusts both Ends of the Movable Jaw

Each

No. 700—30 in. Long; Diameter of Rod ⅛ in.....$14.00

Weight Each About 75 Lbs.



HANDY SEAMERS

Very useful where a Larger Seamer would not be practical. It is Adjustable for Seams of Different Widths. A Handy Tool for Outside Work.

Each

No. 791—Size of Blade 3⅛x⅞ in., Adjustable for ⅛ to ⅜ in. Seam; Length Over-All 7¾ in..... $1.00

Weight Each About 1 Lb.

SQUARE PIPE CRIMPERS

For Making the Assembling of Square Pipe Joints a Quick and Easy Operation, producing Tight Fitting Joints and Improving the Quality and Appearance of the Work.

Each

No. 787—Length 11 in.....$1.25

Weight Each About 2 Lbs.

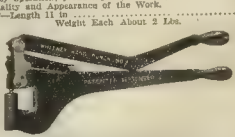
HAND PUNCHES

Furnished with Three Sets of Dies and Punches; viz., ⅛, ⅞ and ¼ inch. The Toggle Movement on this Practical and Handy Tool Works Easily and Rapidly. It may be carried in the Pocket and will Prove a Very Useful Tool for Outside Work

Each

No. 790—Size 4x7½ in.; Depth of Throat 1 in.....$5.00

Weight Each About 2½ Lbs.



PORTABLE LEVER PUNCHES

Manufactured expressly to meet the requirements of all Steel and Sheet Metal Work; will Punch Clean Cut Holes, without burrs, from ⅛ to ⅞ in. by ⅛ in. The Die is divided, can be easily and instantly changed, or adjusted, and is Self-centering.

Each

No. 2—Capacity, ⅞ in. Hole Through ⅛ in. Iron; or its equivalent; Drop Forged Parts; Length Over-All 23 in...$20.00

Weight Each About 18 Lbs.

Extra Dies					
		1/64 Oversize			
Size, in.	⅛	3/16	¼	5/16	⅜
Each					$9.00
Extra Punches					
Size, in.	⅛	3/16	¼	5/16	⅜
Each					$3.65

METAL PUNCHES

ELM CITY

Compound Leverage; Interchangeable Dies

This Tool Embodies a new Movement in Compound Leverage which gives it Power far beyond any other tool yet invented for this purpose. Each Tool is Equipped with One Set of Dies, one Male and one Female Die in a Set. Die Open ⅛ in. and Reach 1 in. from Edge of Metal.

Highly Tempered Steel Dies; Polished Steel Head with Sliding Gauge Controlled by Knurled Brass Nut; Black Enameled Handles.

Nos.			
Size Dies In	17–⅛	17–$\frac{3}{16}$	17–¼
Inches, In	⅛	$\frac{3}{16}$	¼
Per Dozen	0	0	0
	$30.00	30.00	30.00

One in a Box; Weight per Dozen About 19½ Lbs.

EXTRA DIES

Size, In	⅛	$\frac{3}{16}$	¼	$\frac{5}{16}$	⅜	$\frac{7}{16}$	½
Per Sheet Iron, Gauge Nos	14	14	14	14	14	14	14
Per Dozen Sets	$7.00	7.00	7.00	7.00	7.00	7.00	7.00

One Male and One Female Die in a Set; Packed One Dozen Sets in a Box

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

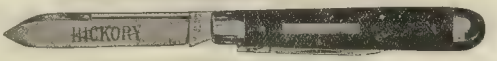
UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

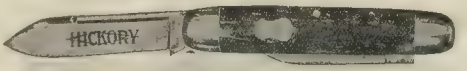
Per Dozen

No. 3389—3¼ in. Cocobolo Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters, Three Blades, 1 Spear Point, 1 Pen and 1 Nail, Half Polished.....$14.00



Per Dozen

No. 12126—3⅝ in. Ebony Handle, Jack Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$12.00



Cut No. 42156

Equal End Jack Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

No. 42156—3½ in. Stag Handle.....$12.00
No. 1233 —3½ in. Ebony Handle.....11.00

Per Dozen

No. 12127—3⅞ in. Ebony Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Extra Heavy Clip and 1 Pen, Half Polished.....$12.00

Cut No. 4283

Equal End Cattle Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

No. 4283 —4¼ in. Stag Handle.....$13.00
No. 12122—4¼ in. Ebony Handle.....12.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

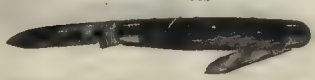
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

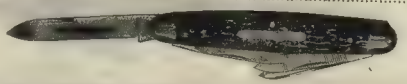
UNCONDITIONALLY GUARANTEED

~~HICKORY~~

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)



No. 42165—3⅝ in. Stag Handle, Candle Pattern, German Silver Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished..... Per Dozen $9.00



No. 4446—3¼ in. Stag Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters, Four Blades, 1 Spear Point, 1 Nail and 2 Pens, Half Polished..... Per Dozen $15.30

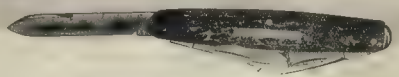
No. 1377—3⅝ in. Ebony Handle, Balloon Pattern, Brass Lined, Double German Silver Bolsters; Three Blades, 1 Large Spear Point and 2 Pens, Half Polished..... Per Dozen $14.40

Cut No. 12217

No. 12217—4 in. Ebony Handle, Canoe Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Large Clip, Half Polished..... Per Dozen $12.00

No. 42189—4 in. Stag Handle, Canoe Pattern, Brass Lined, Double German Silver Bolsters; Three Blades, 1 Large Clip, 1 Sheep Foot and 1 Pen, Half Polished..... 18.00

No. 53212—3¾ in. Cocobolo Handle, Candle Pattern, Brass Lined, Double German Silver Bolsters, Three Blades, 1 Large Spear Point and 2 Pens, Half Polished..... Per Dozen $13.00



No. 44117—3¼ in. Stag Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters; Four Blades, 1 Spear Point, 1 Nail and 2 Pens, Half Polished..... Per Dozen $16.00

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

All Above, Half Dozen in a Cardboard Box

POCKET KNIVES

AMERICAN CUTLERY is now recognized as the finest product in the World and it is with much pride that we announce our connection with the Napanoch Knife Company of Napanoch, N Y., who are considered the most reliable manufacturers in America and whose product is recognized without equal in this country. "GOODS OF QUALITY" is continually their motto, and it is with this in mind that our Pocket Knives are manufactured, according to our own specifications, as it is our aim to furnish under the Hickory and Napanoch Brands, the HIGHEST QUALITY of Pocket Cutlery that can be produced.

Our Pocket Cutlery has gained a wide reputation for itself and the confidence of many buyers has been won through the merits of these goods, which will build up a profitable business and establish the most satisfactory trade. We have prepared several detailed paragraphs calling special attention to individual points that we claim exclusively for our goods, and we are confident that after careful inspection, you will agree that our line is without an equal in every possible detail.

QUALITY.

This is the most important feature of any high grade article and in this a dealer places great confidence. We claim our Knives are full value for the reason they are not skimped in any way, and will stand the test of the most exacting buyers. The Blades are made from the Highest Grade of English Crucible Steel, and are forged by hand from the Bar. The guage is extra heavy and as noticeable, the blades are full size and not drawn out like most imported Knives. Every detail is followed out closely in the Coverings, Linings, Bolsters, Rivets, Shields, and Back Springs, and only the finest products are used that are adapted to its individual purpose.

FINISH.

The workmanship in our factory is one of the most noticeable features upon examining our Line. This is inspected by experts, who examine carefully each pattern to see that it is perfect. The Knives are trimmed neatly and have no rough edges or imperfect handles to mar their beauty. The finish of the blades has the most perfect and uniform crocus, that can be appreciated only by seeing the goods themselves.

GUARANTEE.

It is unconditional, and we absolutely guarantee every Pocket Knife against all defects of temper or flaws. It is universal among dealers in the Northwest, that a Pocket Knife with our brand is backed by a positive guarantee, and with such a confidence that a Montana dealer will accept willingly goods sold by a Michigan firm, if they proved defective. Let it be understood we hereby authorize any dealer to replace defective goods bearing our brand.

NUMBERING SYSTEM.

It is arranged for the convenience of those coming in contact with our Pocket Knives, so the patterns can be recognized at a glance by the numbers which specify the covering and the number of blades by the first, and second figures respectively. The first figure represents the covering as indicated from the following table.

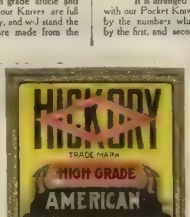
No. 1	signifies	Ebony Handle
No. 2	"	Rosewood Handle.
No. 3	"	Cocobolo Handle.
No. 4	"	Stag Handle.
No. 5	"	Bone Handle.
No. 6	"	Horn Handle.
No. 7	"	Pearl Handle.
No. 8	"	Composition Handle.
No. 9	"	Iron Handle.

The second figure signifies the number of blades as shown in the following:

Example—No. 1248—This pattern has an Ebony handle and two blades.

Example—No. 43178—This pattern has a Stag handle with three blades.

The figures following the first two digits are stock numbers.



The above reproduction shows the label used on the Hickory Brand of Pocket Knives.

STAMPING

This has been added mostly for the convenience of the dealer who has a positive check on all patterns received. The number of each Knife is stamped on the tang or heel of the large blade and the many advantages of this arrangement can only be appreciated by those coming in daily contact with Pocket Knives. When making up a mail order and you desire a few more patterns that is low in your stock, simply open the large blade and get the correct number.

SPECIAL FEATURES.

Examine carefully one of our large Jack Knives, and note the reversed large blade, is placed on the inside so it can be opened easily and quickly. Where it is practical in the large patterns, the inside lining has been partially cut out. This prevents the lodging of dirt which dulls the blade, and with this feature the knife can easily be kept clean, thus insuring a perfect edge at all times.

PATTERNS OF BLADES.

The line, as shown in the following illustrations, contain the most practical shapes adapted to all purposes of pocket knife use.

CARE OF A KNIFE.

Many Knives prove unsatisfactory from the lack of proper care and attention. A Knife should be cleaned and oiled well at the joints, and taken care of the same as any delicate mechanism. Do not use it for a screw driver chisel or nail puller as our guarantee does not cover such abuse. We are confident that every Pocket Knife with our Brand will give perfect satisfaction, with the proper care and usage.

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

~~HICKORY~~

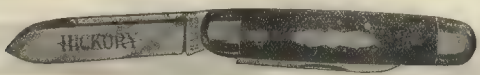
Per Dozen
No. 42164—2⅝ in. **Stag Handle,** Candle Pattern, German Silver Lined; Two Blades, 1 Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 4281—3 in. **Stag Handle,** Serpentine Pen Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 4288—5⅝ in. **Ebony Handle,** Candle Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 32213—3½ in. **Cocobolo Handle,** Swell Center Jack Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished....$11.00

Per Dozen
No. 42213—3½ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear and 1 Pen, Half Polished....$12.00



Cut No. 1219

Equal End Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 1219—3⅝ in. **Ebony Handle**	$ 9.00
No. 3241—3⅝ in. **Cocobolo Handle**	9.30
No. 4242—3⅝ in. **Stag Handle**	16.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

Per Dozen

No. 3210—3¼ in. **Cocobolo Handle,** Equal End Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Cut No. 42x1

Swell Center Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

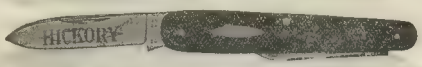
No. 32175—3⅝ in. **Cocobolo Handle**.....$8.00
No. 4291—3⅝ in. **Stag Handle**.....8.00

Per Dozen

No. 1284—3¾ in. **Ebony Handle,** Serpentine Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 32111—3½ in. **Cocobolo Handle,** Equal End Jack Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$9.50



Per Dozen

No. 42118—3⅝ in. **Stag Handle,** Shadow Pattern, Brass Lined; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished $8.00

Senator Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished

Per Dozen

No. 42244—3½ in. **Stag Handle**.....$10.00
No. 72243—3½ in. **Pearl Handle**.....16.00

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HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

HICKORY

Per Dozen

No. 42186—3⅞ in. **Stag Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$6.00

Per Dozen

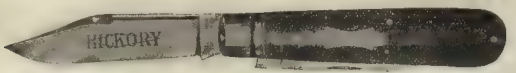
No. 2211—3½ in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$6.00

Per Dozen

No. 32124—3⅞ in. **Cocobolo Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$5.00

Per Dozen

No. 2244—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$8.00



Per Dozen

No. 2222—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glased Finish.....$8.00

Per Dozen

No. 2223—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

NUMERICAL LIST OF POCKET KNIVES

Giving Page Numbers for Illustration of Different Patterns

Pages 2210 to 2240

HICKORY AND NAPANOCH PATTERNS

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225	2210	7475	222	73137	2240	72195	2233
126	2210	7476	2226	72138	2227	72196	2230
427	2219	1377	2219	44139	2231	72197	2230
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3210	2214	7280	2237	33142	2223	42200	2217
2211	2211	4281	2215	41143	2240	42201	2218
2217	2219	7382	2223	41145	2240	12202	2218
1218	2212	4283	2210	21146	2227	72203	2239
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4321	2221	1288	2219	43149	2224	12206	2218
2222	2211	3389	2216	42150	2231	22207	2212
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1229	2223	1394	2222	43155	2228	33212	2215
4330	2224	4395	2222	42156	2216	42213	2215
1231	2211	4396	2227	04157	2235	21214	2210
1233	2215	7297	2226	74158	222	32215	2215
4334	2227	7398	222	73159	2231	12216	2229
1235	2211	7299	222	54160	2225	12217	2219
1236	2217	73100	2228	32161	2211	72218	2231
1237	2215	72101	2227	82163	2227	73219	2232
1238	2217	72102	222	42164	2212	74221	2234
1239	2212	74103	2231	42165	221	72222	2232
3240	2215	82104	2225	42166	2211	74223	2233
3241	2218	82105	2226	73167	2233	76224	2236
4242	2215	52106	2225	73168	2233	74225	2233
1243	2236	82107	2225	72169	2227	73226	2226
2244	2211	32108	227	7270	2233	73227	2234
7345	2227	32111	2214	13172	2221	73228	2232
4446	2219	72112	2231	32175	2214	72229	2232
1247	2213	72113	2229	42176	2215	72230	2233
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1252	2212	43119	2224	91180	2226	12235	2223
4253	2212	42120	2220	21181	2216	42236	2223
2254	2210	32121	2226	21182	2214	43237	2224
2255	2210	12122	2216	22183	2237	73238	2224
1256	2237	3223	2217	73186	2235	72239	2213
7259	2228	32124	2211	43185	2215	44240	2239
4262	2221	12125	2216	72186	2215	41241	2239
7463	2229	12127	2216	74187	2224	72243	2235
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Kelley-How-Thomson Co. of Duluth

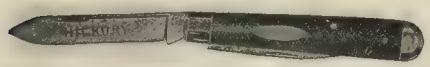
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

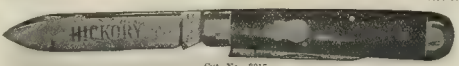
UNCONDITIONALLY GUARANTEED

~~HICKORY~~ Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)



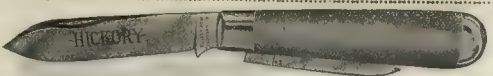
No. 1239—3¼ in. **Ebony Handle,** Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished — Per Dozen $8.00



Cut No. 3217

Regular Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 3217—3⅝ in. **Cocobolo Handle**	$7.20
No. 1218—3⅝ in. **Ebony Handle**	8.00



Cut No. 22207

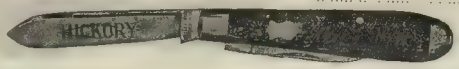
Regular Jack Pattern, Iron Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish

	Per Dozen
No. 22257—3⅞ in. **Rosewood Handle**	$7.20
No. 12206—3⅞ in. **Ebony Handle**	7.50

Cut No. 4253

Regular Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 3251—3⅝ in. **Cocobolo Handle**	$8.00
No. 1252—3⅝ in. **Ebony** Handle	8.00
No. 4253—3⅝ in. **Stag** Handle	8.00



No. 42147—3⅝ in. **Stag Handle,** Regular Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished — Per Dozen $8.00

No. 3240—3⅝ in. **Cocobolo Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish — Per Dozen $9.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

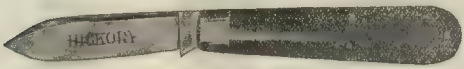
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

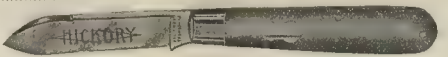


Per Dozen

No. 211 —3 7/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish $3.50

No. 21181—3 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish 3.25

No. 21182—3 1/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish 3.75

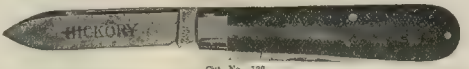


Per Dozen

No. 21214—3 1/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish $3.00

Per Dozen

No. 2219—3 1/8 in. **Rosewood Handle,** Swell End Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $3.00



Cut No. 126

Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish

Per Dozen

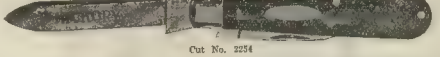
No. 126—3 1/4 in. Ebony Handle $4.00
No. 427—3 1/2 in. Stag Handle 4.50

Cut No. 225

Per Dozen

No. 224—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $4.00

No. 225—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glazed Finish 4.00



Cut No. 2254

Per Dozen

No. 2254—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $4.00

No. 2253—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glazed Finish 4.00

All Above, Half Dozen in a Cardboard Box

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POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

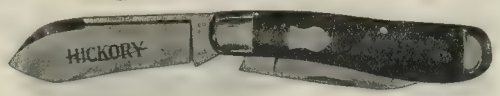
(Cuts Two-Thirds Size)

Per Dozen

No. 42132—3½ in. Stag Handle, Serpentine Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$11.00

Per Dozen

No. 42133—3½ in. Ebony Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Spear and 1 Pen, Half Polished.....$11.60



Cut No. 1223

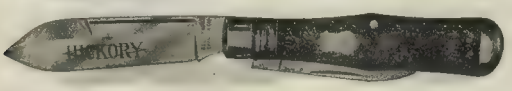
Serpentine Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and Pen, Half Polished

Per Dozen

No. 42232—3½ in. Ebony Handle.....$11.00
No. 42201—3½ in. Stag Handle..... 12.00
No. 4223 —3½ in. Ebony Handle..... 12.00
No. 4202 —3½ in. Stag Handle..... 13.00

Per Dozen

No. 4216 3½ in. Stag Handle, Coffin Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Spear Point and 1 Pen, Half Polished.....$12.00



Per Dozen

No. 42148—3¾ in. Stag Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Extra Heavy Sabre and 1 Pen, Half Polished.....$72.00

All Above, Half Dozen in a Cardboard Box

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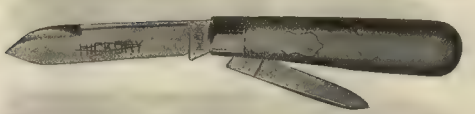
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

~~HICKORY~~



Per Dozen

No. 22239—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; **Two Blades, 1 Large Saber and 1 Pen,** Half Polished.....$6.00

Cut No. 3266

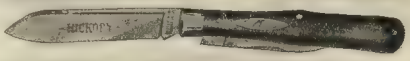
Mackerel Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, Spear and Pen, Half Polished

Per Dozen

No. 3266—3¾ in. **Cocobolo Handle.**.....$8.00
No. 4267—3⅛ in. **Stag Handle**.....8.50

Per Dozen

No. 1237—3⅞ in. **Ebony Handle,** Serpentine Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00



Per Dozen

No. 3281—3 in. **Cocobolo Handle,** Swell Center Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 1247—3¾ in. **Ebony Handle,** Equal End Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 42178—3¾ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Double Bolsters; **Two Blades, 1** Large Spear Point and 1 Pen, Half Polished.....$12.00

All Above, Half Dozen in a Cardboard **Box**

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POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

~~HICKORY~~

Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

Cut No. 1238

Per Dozen

No. 1268—3½ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$10.00

No. 1238—3¾ in. **Ebony Handle,** Balloon Pattern, Steel Lined, Steel Bolster and Cap; Two Blades, 1 Extra Heavy Saber and 1 Pen, Half Polished..... 10.00

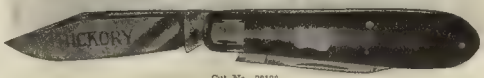
Cut No 1240

Per Dozen

No. 1231—3⅝ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished.....$11.00

No. 1236—3¾ in. **Ebony Handle,** Balloon Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished..... " 00

No. 1249—3¾ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished..... 10.00



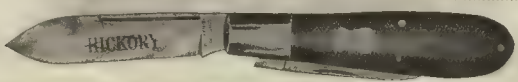
Cut No. 32130

Per Dozen

No. 12131—3½ in. **Ebony Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

No. 32123—3½ in **Cocobolo Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished..... 8.00

No. 22130—3½ in. **Cocobolo Handle,** Swell End Jack Pattern, Steel Lined, German Silver Bolster; Two Blades, 1 Large Clip and 1 Pen, Half Polished..... 8.00



Per Dozen

No. 1235—3¾ in. **Ebony Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished.....$12.00

Per Dozen

No. 42200—3¼ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$12.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

AMERICAN CUTLERY is now recognized as the finest product in the World and it is with much pride that we announce our connection with the Napanoch Knife Company of Napanoch, N Y., who are considered the most reliable manufacturers in America and whose product is recognized without equal in this country. "GOODS OF QUALITY" is continually their motto, and it is with this in mind that our Pocket Knives are manufactured, according to our own specifications, as it is our aim to furnish under the Hickory and Napanoch Brands, the HIGHEST QUALITY of Pocket Cutlery that can be produced.

Our Pocket Cutlery has gained a wide reputation for itself and the confidence of many buyers has been won through the merits of these goods, which will build up a profitable business and establish the most satisfactory trade. We have prepared several detailed paragraphs calling special attention to individual points that we claim exclusively for our goods, and we are confident that after careful inspection, you will agree that our line is without an equal in every possible detail.

QUALITY.

This is the most important feature of any high grade article and in this a dealer places great confidence. We claim our Knives are full value for the reason they are not skimped in any way, and will stand the test of the most exacting buyers. The Blades are made from the Highest Grade of English Crucible Steel, and are forged by hand from the Bar. The guage is extra heavy and as noticeable, the blades are full size and not drawn out like most imported Knives. Every detail is followed out closely in the Coverings, Linings, Bolsters, Rivets, Shields, and Back Springs, and only the finest products are used that are adapted to its individual purpose.

FINISH.

The workmanship in our factory is one of the most noticeable features upon examining our Line. This is inspected by experts, who examine carefully each pattern to see that it is perfect. The Knives are trimmed neatly and have no rough edges or imperfect handles to mar their beauty. The finish of the blades has the most perfect and uniform crocus, that can be appreciated only by seeing the goods themselves.

GUARANTEE.

It is unconditional, and we absolutely guarantee every Pocket Knife against all defects of temper or flaws. It is universal among dealers in the Northwest, that a Pocket Knife with our brand is backed by a positive guarantee, and with such a confidence that a Montana dealer will accept willingly goods sold by a Michigan firm, if they proved defective. Let it be understood we hereby authorize any dealer to replace defective goods bearing our brand.

NUMBERING SYSTEM.

It is arranged for the convenience of those coming in contact with our Pocket Knives, so the patterns can be recognized at a glance by the numbers which specify the covering and the number of blades by the first, and second figures respectively. The first figure represents the covering as indicated from the following table.

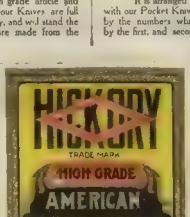
No. 1	signifies	Ebony Handle
No. 2	"	Rosewood Handle.
No. 3	"	Cocobolo Handle.
No. 4	"	Stag Handle.
No. 5	"	Bone Handle.
No. 6	"	Horn Handle.
No. 7	"	Pearl Handle.
No. 8	"	Composition Handle.
No. 9	"	Iron Handle.

The second figure signifies the number of blades as shown in the following:

Example—No. 1248—This pattern has an Ebony handle and two blades.

Example—No. 43178—This pattern has a Stag handle with three blades.

The figures following the first two digits are stock numbers.



The above reproduction shows the label used on the Hickory Brand of Pocket Knives.

STAMPING

This has been added mostly for the convenience of the dealer who has a positive check on all patterns received. The number of each Knife is stamped on the tang or heel of the large blade and the many advantages of this arrangement can only be appreciated by those coming in daily contact with Pocket Knives. When making up a mail order and you desire a few more patterns that is low in your stock, simply open the large blade and get the correct number.

SPECIAL FEATURES.

Examine carefully one of our large Jack Knives, and note the reversed large blade, is placed on the inside so it can be opened easily and quickly. Where it is practical in the large patterns, the inside lining has been partially cut out. This prevents the lodging of dirt which dulls the blade, and with this feature the knife can easily be kept clean, thus insuring a perfect edge at all times.

PATTERNS OF BLADES.

The line, as shown in the following illustrations, contain the most practical shapes adapted to all purposes of pocket knife use.

CARE OF A KNIFE.

Many Knives prove unsatisfactory from the lack of proper care and attention. A Knife should be cleaned and oiled well at the joints, and taken care of the same as any delicate mechanism. Do not use it for a screw driver chisel or nail puller as our guarantee does not cover such abuse. We are confident that every Pocket Knife with our Brand will give perfect satisfaction, with the proper care and usage.

NUMERICAL LIST OF POCKET KNIVES

Giving Page Numbers for Illustration of Different Patterns

Pages 2210 to 2240

HICKORY AND NAPANOCH PATTERNS

Nos.	Page	Nos.	Page	Nos.	Page	Nos.	Page
211	2219	1370	2220	42102	2218	73192	2236
118	2240	4372	2221	12133	2218	72193	2239
224	2210	7273	2220	43136	2221	72194	2235
225	2210	7475	222	73137	2240	72195	2233
126	2210	7476	2226	72138	2227	72196	2230
427	2219	1377	2219	44139	2231	72197	2230
748	2235	7378	2228	42140	2237	73198	2234
129	2237	1279	2221	41141	2240	22199	2210
3210	2214	7280	2237	33142	2223	42200	2217
2211	2211	4281	2215	41143	2240	42201	2218
2217	2219	7382	2223	41145	2240	12202	2218
1218	2212	4283	2210	21146	2227	72203	2239
1219	2215	1284	2214	42147	2214	72204	2231
3320	2224	2286	2231	42148	2211	72205	2229
4321	2221	1288	2219	43149	2224	12206	2218
2222	2211	3389	2216	42150	2231	22207	2212
2223	2211	4390	222	12151	2233	74208	2236
7224	2234	4291	2214	13152	2223	73209	2235
4226	2214	4292	2238	81153	2238	72210	2230
4227	2234	1293	2215	44154	2224	73211	2231
1229	2223	1394	2222	43155	2228	33212	2215
4330	2224	4395	2222	42156	2216	42213	2215
1231	2211	4396	2221	44157	2235	21214	2210
1233	2215	7297	2226	74158	222	32215	2215
4334	2227	7398	222	73159	2233	12216	2229
1235	2211	7299	222	54160	2225	12217	2219
1236	2217	73100	2228	32161	2211	72218	2231
1237	2215	72101	2227	82163	2227	73219	2232
1238	2217	72102	222	42164	2212	74221	2234
1239	2212	74103	2231	42165	221	72222	2232
3240	2215	82104	2225	42166	2211	74223	2233
3241	2218	82105	2226	73167	2233	76224	2236
4242	2215	52106	2225	73168	2233	74225	2233
1243	2236	82107	2225	72169	2227	73226	2226
2244	2211	32108	227	7270	2233	73227	2234
7345	2227	32111	2214	13172	2221	73228	2232
4446	2219	72112	2231	32175	2214	72229	2232
1247	2213	72113	2229	42176	2215	72230	2233
1248	2238	73115	2229	42177	2234	73231	2232
1249	2217	44117	2216	43178	2231	72232	2233
3251	2212	42118	2214	43179	2234	75233	2234
1252	2212	43119	2224	91180	2226	12235	2223
4253	2212	42120	2220	21181	2216	42236	2223
2254	2210	32121	2226	21182	2214	43237	2224
2255	2210	12122	2216	22183	2237	73238	2224
1256	2229	3123	2217	73186	2235	72239	2213
7259	2228	32124	2211	43185	2235	44240	2239
4262	2221	12125	2216	72186	2235	41241	2229
7463	2229	12127	2216	74187	2224	72243	2235
3266	2213	12128	2229	44188	2224	72243	2214
4267	2213	42129	2221	43189	2219	42244	2214
1268	2217	32130	2217	72199	2231	4040	2239
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HHH—Combination	2246
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01477	2245
016—Steel Office Eraser	2246
02852	2245
1 -Swedish	2241
41	2242
42	2243
57	2242
62	2243
76	2243
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80	2243
83	2243
85	2243
100—Campers' Table Sets	2243
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317—Ladies' Slipper	2246
545	2242
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42—Marble's	2242
57—Marble's	2242
62—Marble's	2243
76—Marble's Safety Carver	2243
78—Marble's Safety Fish Knife	2243
80—Marble's Handy Fish Knife	2243
83—Marble's	2243
85—Marble's	2243
113—Hickory and Napanoch	2240
168	2241
545—Marble's	2242
556—Marble's	2242
1000—Invincible	2241
2188	2241
6656	2240
6702	2240
6929—Deer Foot	2241
41141—Hickory and Napanoch	2240
41143—Hickory and Napanoch	2240
41145—Hickory and Napanoch	2240
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2990	2246
150—Assorted	2247

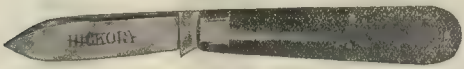
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

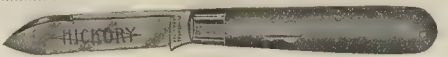


Per Dozen

No. 211 —3 7/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish $3.50

No. 21181—3 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish 3.25

No. 21182—3 1/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish 3.75

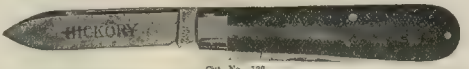


Per Dozen

No. 21214—3 1/8 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; One Large Spear Point Blade, Glazed Finish $3.00

Per Dozen

No. 2219—3 1/8 in. **Rosewood Handle,** Swell End Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $3.00



Cut No. 126

Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish

Per Dozen

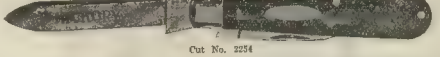
No. 126—3 1/4 in. Ebony Handle $4.00
No. 427—3 1/2 in. Stag Handle 4.50

Cut No. 225

Per Dozen

No. 224—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $4.00

No. 225—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glazed Finish 4.00



Cut No. 2254

Per Dozen

No. 2254—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish $4.00

No. 2253—3 1/4 in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glazed Finish 4.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

HICKORY

Per Dozen

No. 42186—3⅞ in. **Stag Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$6.00

Per Dozen

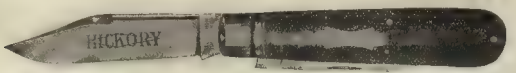
No. 2211—3½ in. **Rosewood Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$6.00

Per Dozen

No. 32124—3⅞ in. **Cocobolo Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$5.00

Per Dozen

No. 2244—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glased Finish.....$8.00



Per Dozen

No. 2222—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; Two Blades, 1 Large Clip Point and 1 Pen, Glased Finish.....$8.00

Per Dozen

No. 2223—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

All Above, Half Dozen in a Cardboard Box

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Kelley-How-Thomson Co. of Duluth

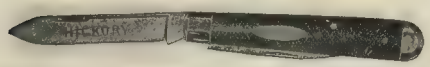
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

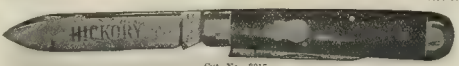
UNCONDITIONALLY GUARANTEED

~~HICKORY~~ Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)



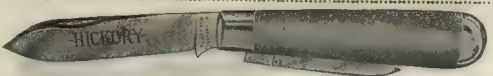
No. 1239—3¼ in. **Ebony Handle,** Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished — Per Dozen $8.00



Cut No. 3217

Regular Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 3217—3⅝ in. **Cocobolo Handle**	$7.20
No. 1218—3⅝ in. **Ebony Handle**	8.00



Cut No. 22207

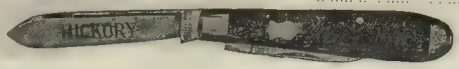
Regular Jack Pattern, Iron Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish

	Per Dozen
No. 22257—3⅞ in. **Rosewood Handle**	$7.20
No. 12206—3⅞ in. **Ebony Handle**	7.50

Cut No. 4253

Regular Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 3251—3⅝ in. **Cocobolo Handle**	$8.00
No. 1252—3⅝ in. **Ebony** Handle	8.00
No. 4253—3⅝ in. **Stag** Handle	8.00



No. 42147—3⅝ in. **Stag Handle,** Regular Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished — Per Dozen $8.00

No. 3240—3⅝ in. **Cocobolo Handle,** Regular Jack Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Glazed Finish — Per Dozen $9.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

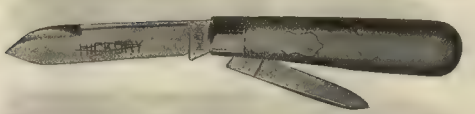
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

~~HICKORY~~



Per Dozen

No. 22239—3⅝ in. **Rosewood Handle,** Regular Jack Pattern, Brass Lined, Steel Bolster; **Two Blades, 1 Large Saber and 1 Pen,** Half Polished.....$6.00

Cut No. 3266

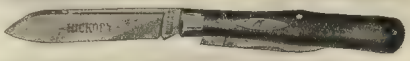
Mackerel Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, Spear and Pen, Half Polished

Per Dozen

No. 3266—3¾ in. **Cocobolo Handle.**.....$8.00
No. 4267—3⅛ in. **Stag Handle**.....8.50

Per Dozen

No. 1237—3⅞ in. **Ebony Handle,** Serpentine Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00



Per Dozen

No. 3281—3 in. **Cocobolo Handle,** Swell Center Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 1247—3¾ in. **Ebony Handle,** Equal End Jack Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 42178—3¾ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Double Bolsters; **Two Blades, 1** Large Spear Point and 1 Pen, Half Polished.....$12.00

All Above, Half Dozen in a Cardboard **Box**

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

Per Dozen

No. 3210—3¼ in. **Cocobolo Handle,** Equal End Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Cut No. 42x1

Swell Center Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

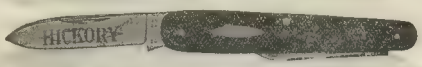
No. 32175—3⅝ in. **Cocobolo Handle**.....$8.00
No. 4291—3⅝ in. **Stag Handle**.....8.00

Per Dozen

No. 1284—3¾ in. **Ebony Handle,** Serpentine Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

Per Dozen

No. 32111—3½ in. **Cocobolo Handle,** Equal End Jack Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$9.50



Per Dozen

No. 42118—3⅝ in. **Stag Handle,** Shadow Pattern, Brass Lined; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished $8.00

Senator Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished

Per Dozen

No. 42244—3½ in. **Stag Handle**.....$10.00
No. 72243—3½ in. **Pearl Handle**.....16.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)

~~HICKORY~~

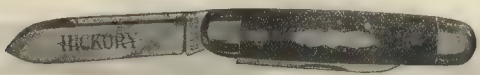
Per Dozen
No. 42164—2⅝ in. **Stag Handle,** Candle Pattern, German Silver Lined; Two Blades, 1 Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 4281—3 in. **Stag Handle,** Serpentine Pen Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 4288—5⅝ in. **Ebony Handle,** Candle Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Spear Point and 1 Pen, Half Polished....$8.00

Per Dozen
No. 32213—3½ in. **Cocobolo Handle,** Swell Center Jack Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished....$11.00

Per Dozen
No. 42213—3½ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear and 1 Pen, Half Polished....$12.00



Cut No. 1219

Equal End Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

	Per Dozen
No. 1219—3⅝ in. **Ebony Handle**	$ 9.00
No. 3241—3⅝ in. **Cocobolo Handle**	9.30
No. 4242—3⅝ in. **Stag Handle**	16.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

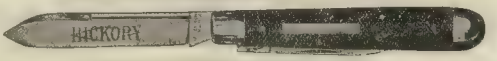
UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

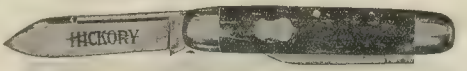
Per Dozen

No. 3389—3¼ in. Cocobolo Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters, Three Blades, 1 Spear Point, 1 Pen and 1 Nail, Half Polished.....$14.00



Per Dozen

No. 12126—3⅝ in. Ebony Handle, Jack Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$12.00



Cut No. 42156

Equal End Jack Pattern, Brass Lined, Double German Silver Bolsters, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

No. 42156—3½ in. Stag Handle.....$12.00
No. 1233 —3½ in. Ebony Handle.....11.00

Per Dozen

No. 12127—3⅞ in. Ebony Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Extra Heavy Clip and 1 Pen, Half Polished.....$12.00

Cut No. 4283

Equal End Cattle Pattern, Brass Lined, Steel Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished

Per Dozen

No. 4283 —4¼ in. Stag Handle.....$13.00
No. 12122—4¼ in. Ebony Handle.....12.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

~~HICKORY~~

Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

(Cuts Two-Thirds Size)

Cut No. 1238

Per Dozen

No. 1268—3½ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$10.00

No. 1238—3¾ in. **Ebony Handle,** Balloon Pattern, Steel Lined, Steel Bolster and Cap; Two Blades, 1 Extra Heavy Saber and 1 Pen, Half Polished..... 10.00

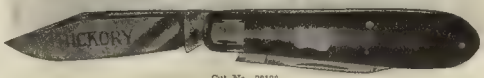
Cut No 1240

Per Dozen

No. 1231—3⅝ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished.....$11.00

No. 1236—3¾ in. **Ebony Handle,** Balloon Pattern, Steel Lined, Steel Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished..... " 00

No. 1249—3¾ in. **Ebony Handle,** Balloon Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished..... 10.00



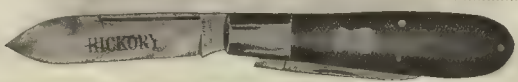
Cut No. 32130

Per Dozen

No. 12131—3½ in. **Ebony Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$8.00

No. 32123—3½ in **Cocobolo Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished..... 8.00

No. 22130—3½ in. **Cocobolo Handle,** Swell End Jack Pattern, Steel Lined, German Silver Bolster; Two Blades, 1 Large Clip and 1 Pen, Half Polished..... 8.00



Per Dozen

No. 1235—3¾ in. **Ebony Handle,** Swell End Jack Pattern, Brass Lined, German Silver Bolster; Two Blades, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished.....$12.00

Per Dozen

No. 42200—3¼ in. **Stag Handle,** Serpentine Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$12.00

All Above, Half Dozen in a Cardboard Box

As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

UNCONDITIONALLY GUARANTEED

HICKORY Highest Grade Crucible Steel Blades, Carefully Tempered Sharpened and Whetted, Ready for Use

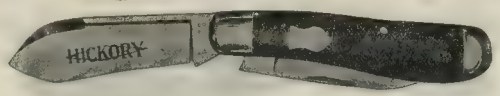
(Cuts Two-Thirds Size)

Per Dozen

No. 42132—3½ in. Stag Handle, Serpentine Pattern, Brass Lined, German Silver Bolster and Cap, Two Blades, 1 Large Spear Point and 1 Pen, Half Polished.....$11.00

Per Dozen

No. 42133—3½ in. Ebony Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Spear and 1 Pen, Half Polished.....$11.60



Cut No. 1223

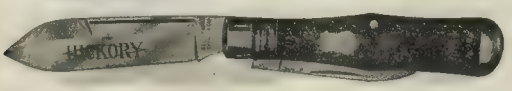
Serpentine Jack Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Large Spear Point and Pen, Half Polished

Per Dozen

No. 42232—3½ in. Ebony Handle.....$11.00
No. 42201—3½ in. Stag Handle..... 12.00
No. 4223 —3½ in. Ebony Handle..... 12.00
No. 4202 —3½ in. Stag Handle..... 13.00

Per Dozen

No. 4216 3½ in. Stag Handle, Coffin Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Spear Point and 1 Pen, Half Polished.....$12.00



Per Dozen

No. 42148—3¾ in. Stag Handle, Balloon Pattern, Brass Lined, German Silver Bolster and Cap; Two Blades, 1 Extra Heavy Sabre and 1 Pen, Half Polished.....$72.00

All Above, Half Dozen in a Cardboard Box

As we Handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

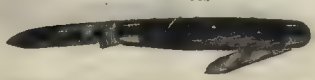
POCKET KNIVES

HICKORY AND NAPANOCH BRANDS

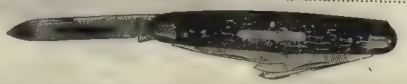
UNCONDITIONALLY GUARANTEED

~~HICKORY~~

Highest Grade Crucible Steel Blades, Carefully Tempered
Sharpened and Whetted, Ready for Use
(Cuts Two-Thirds Size)



No. 42165—3⅝ in. Stag Handle, Candle Pattern, German Silver Lined, Double German Silver Bolsters; Two Blades, 1 Spear Point and 1 Pen, Half Polished..... Per Dozen $9.00



No. 4446—3¼ in. Stag Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters, Four Blades, 1 Spear Point, 1 Nail and 2 Pens, Half Polished..... Per Dozen $15.30

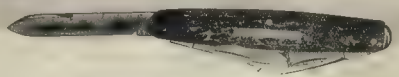
No. 1377—3⅝ in. Ebony Handle, Balloon Pattern, Brass Lined, Double German Silver Bolsters; Three Blades, 1 Large Spear Point and 2 Pens, Half Polished..... Per Dozen $14.40

Cut No. 12217

No. 12217—4 in. Ebony Handle, Canoe Pattern, Brass Lined, Double German Silver Bolsters; Two Blades, 1 Large Spear Point and 1 Large Clip, Half Polished..... Per Dozen $12.00

No. 42189—4 in. Stag Handle, Canoe Pattern, Brass Lined, Double German Silver Bolsters; Three Blades, 1 Large Clip, 1 Sheep Foot and 1 Pen, Half Polished..... 18.00

No. 53212—3¾ in. Cocobolo Handle, Candle Pattern, Brass Lined, Double German Silver Bolsters, Three Blades, 1 Large Spear Point and 2 Pens, Half Polished..... Per Dozen $13.00



No. 44117—3¼ in. Stag Handle, Senator Pattern, Brass Lined, Double German Silver Bolsters; Four Blades, 1 Spear Point, 1 Nail and 2 Pens, Half Polished..... Per Dozen $16.00

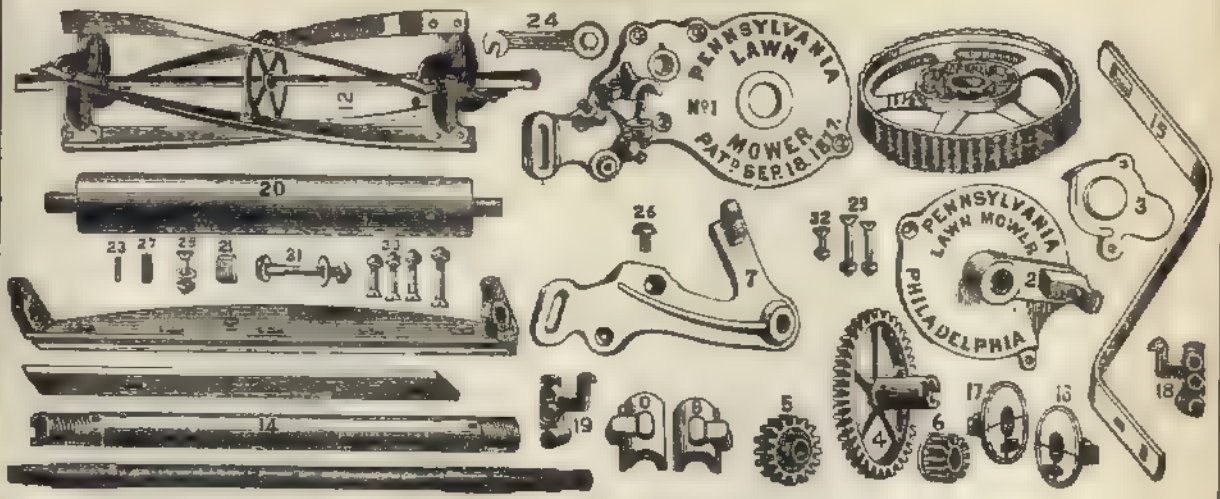
As we handle both the HICKORY and NAPANOCH Brands under the same number, SPECIFY BRAND WANTED

All Above, Half Dozen in a Cardboard Box

LAWN MOWER PARTS
PENNSYLVANIA LOW WHEEL

Prices on Request

THE STANDARD—4 KNIVES



Sizes 10, 12, 14, 16 and 18 Inches

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine.

Third.—If you have no open account with us cash must accompany the order, including mailing charges, if parts can be mailed

No	Article	Weight	Each
1	Inside Left Hand Side Plate	3¼ pounds	$2 40
2	Outside Left Hand Side Plate	1½ pound	2 00
3	Shield Left Hand Side Plate	8 ounces	50
4	Master Gear, ¼ Hole	1¼ pound	1 20
5	Intermediate Gear, ¼ Hole 20 Cogs	7 ounces	70
6	Pinion, ¼ Hole, 12 Cogs	4 ounces	50
7	Right Hand Side Plate	2¼ pounds	1 40
8	Right Hand Cylinder Cap.	4 ounces	40
9	Left Hand Cylinder Cap	4 ounces	40
10	Cast Back for Stationary Knife, 10 in.	2 pounds	1 70
	Cast Back for Stationary Knife, 12 in.	2¼ pounds	1 90
	Cast Back for Stationary Knife, 14 in.	2½ pounds	2 10
	Cast Back for Stationary Knife, 16 in.	3¼ pounds	2 30
	Cast Back for Stationary Knife, 18 in.	3½ pounds	2 50
11	Driving Wheel, Right Hand	3½ pounds	2 00
11½	Driving Wheel, Left Hand	3½ pounds	2 00
12	Cylinder complete, 3 Knives, 10 in.	3½ pounds	8 00
	Cylinder, complete, 3 Knives, 12 in.	4½ pounds	9 00
	Cylinder complete, 4 Knives, 14 in.	5¼ pounds	10 00
	Cylinder, complete, 4 Knives, 16 in.	5¾ pounds	11 00
	Cylinder, complete, 4 Knives, 18 in.	6¼ pounds	12 00
13	Shaft for Frame, 10 in.	2 pounds	1 20
	Shaft for Frame, 12 in.	2¼ pounds	1 40
	Shaft for Frame, 14 in	2½ pounds	1 60
	Shaft for Frame, 16 in.	14 ounces	1 80
	Shaft for Frame, 18 in.	2¾ pounds	2 00
14	Driving Tube, 10 in.	3 pounds	1 10
	Driving Tube 12 in.	1 pound	1 20
	Driving Tube, 14 in.	1¼ pound	1 30
	Driving Tube, 16 in	1½ pound	1 40
	Driving Tube, 18 in.	1¾ pound	1 50
15	Handle Brace, both alike, each, 10 in	1 pound	40
	Handle Brace both alike, each, 12 in	1¼ pound	50
	Handle Brace, both alike, each, 14 in.	1½ pound	.60
	Handle Brace, both alike, each, 16 in	1¾ pound	.70
	Handle Brace both alike, each, 18 in.	1½ pound	80
16	Left Hand Pawl Holder	1¼ pound	.70
17	Right Hand Pawl Holder	1¼ pound	.70
18	Left Hand Roller Bracket	7 ounces	30
19	Right Hand Roller Bracket	7 ounces	.30

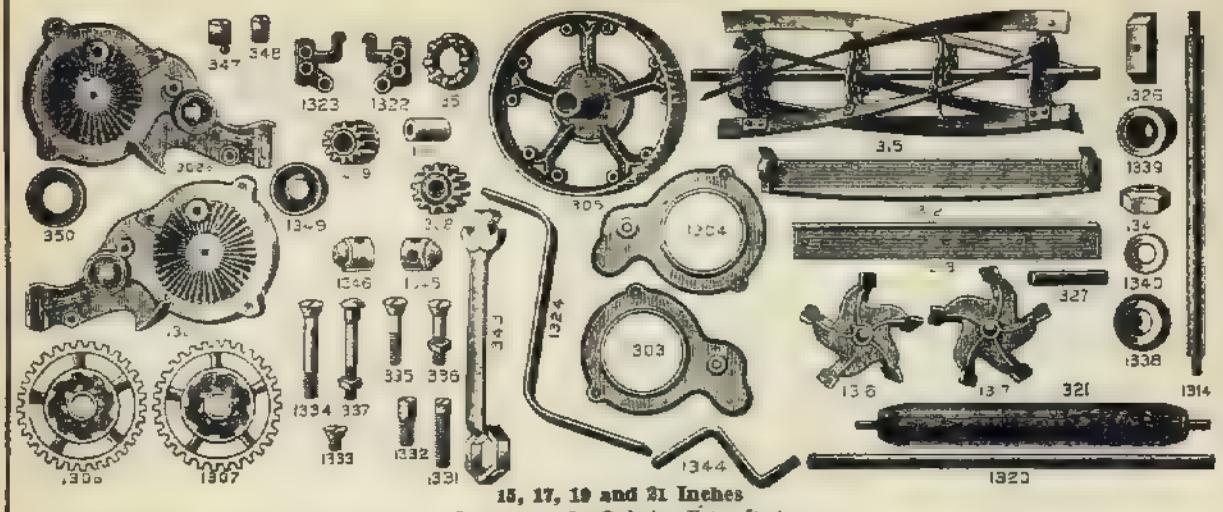
No.	Article	Weight	Each
20	Wood Roller, 10 in.	1 pound	$ 70
	Wood Roller 12 in.	1¼ pound	80
	Wood Roller, 14 in.	1½ pound	90
	Wood Roller 16 in.	1¾ pound	1 00
	Wood Roller, 18 in.	2¼ pounds	1 10
21	Steel Pawl for Pawl Holder	1 ounce	10
23	Steel Pin for Pinion, ⅛ x ¼	1 ounce	05
24	Wrench	6 ounces	10
25	Steel Stationary Blade, 10 in.	8 ounces	1.00
	Steel Stationary Blade, 12 in.	10 ounces	1 20
	Steel Stationary Blade, 14 in.	12 ounces	1 40
	Steel Stationary Blade, 16 in	14 ounces	1 60
	Steel Stationary Blade, 18 in.	16 ounces	1 80
26	Machine Screw, ¼ x ¼, Round Head	1 ounce	10
27	Set Screw for Stationary Knife, and Cylinder Cap, ⅛ x ¼	1 ounce	.10
28	Bolt for Roller Bracket and Stationary Knife, ¼ x 1¼	1 ounce	.05
29	Bolt for Gear Box, 1¼ x ¼	1 ounce	.05
30	Bolt for Gear Box, 1¼ x ¼	1 ounce	05
31	Bolt for Wood Handle, ¼ x 2¼	2 ounces	.10
32	Bolt for Ratchet, ¼ x 1¼	1 ounce	.05
33	Wood Handle	3¼ pounds	1 50
34	Sharpening Crank	5 ounces	20
35	Spiral Blade for Cylinder, 10 in.	8 ounces	1 10
	Spiral Blade for Cylinder, 12 in	10 ounces	1.20
	Spiral Blade for Cylinder, 14 in.	12 ounces	1.40
	Spiral Blade for Cylinder, 16 in.	14 ounces	1.60
	Spiral Blade for Cylinder 18 in.	16 ounces	1.80
36	Nut for End of Shaft, Hexagon	1 ounce	.10
37	Roller Pins each	2 ounces	15
38	Cylinder Rings, each	5 ounces	60
39	Cylinder Ends, each (state if Right or Left Hand)	1¼ pound	2.00
40	Bolt for Pawl Holder, ¼ x 1¼	1 ounce	.10
41	Set Screws for Pawl Holder ⅛ x ⅛	1 ounce	.10
42	Rivets for Dead Knife Blade, ⅛ x ⅛	1 ounce	05
	Steel Pin for L H Side Plate No. 2	1 ounce	05
	Handle Rings, each	7 ounces	.20
	Bolt for Handle Rings, ¼ x 2¼	1 ounce	.05

LAWN MOWER PARTS

Prices on Request

PENNSYLVANIA JUNIOR BALL BEARING HIGH WHEEL

FIVE KNIVES



15, 17, 19 and 21 Inches

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine.
Third.—If you have no open account with us, cash must accompany the order, including mailing charges, if parts can be mailed.

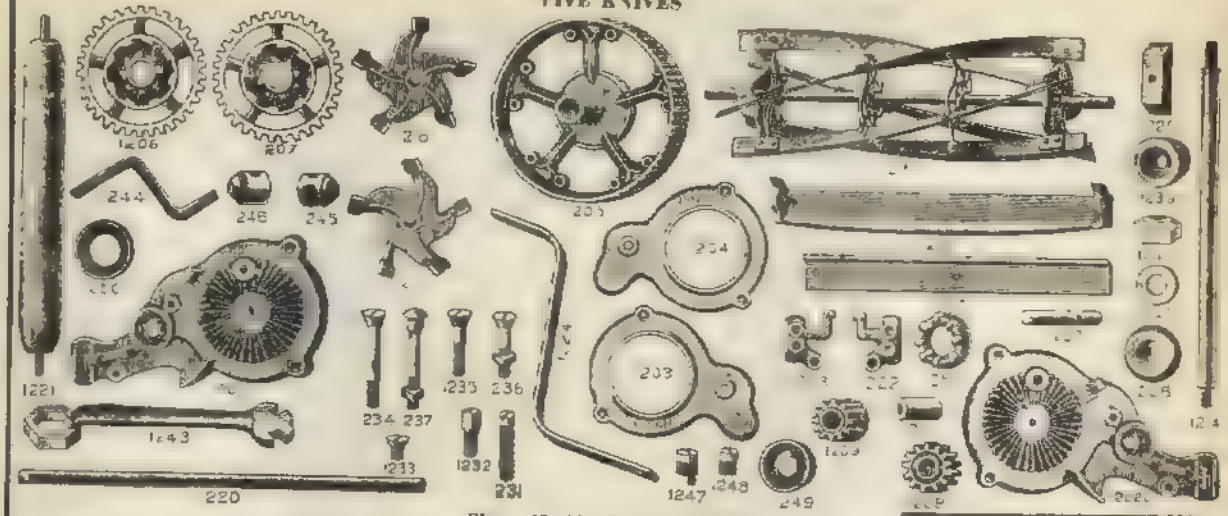
No.	Article	Weight	Each
B1301	Left Hand Side Plate, with Cup	4½ pounds	$4.00
B1302	Right Hand Side Plate, with Cup	4½ pounds	4.00
1303	Left Hand Shield	1½ pound	2.00
1304	Right Hand Shield	1½ pound	2.00
1305	Driving Wheels, both alike, each	4½ pounds	2.50
1306	Left Hand Master Gear, 1½ Hole	2 pounds	1.40
1307	Right Hand Master Gear, 1½ Hole	2 pounds	1.40
1308	Intermediate Gear, both alike, ½ Hole, 20 cogs, each	4 ounces	.80
1309	Pinion, both alike, ½ Hole, 13 cogs, each	4 ounces	50
1311	Bushing for Intermediate Gear, each	2 ounces	.40
1312	Cast Back for Stationary Knife, 15 in.	3 pounds	2 20
	Cast Back for Stationary Knife, 17 in.	3½ pounds	2.40
	Cast Back for Stationary Knife, 19 in.	4 pounds	2.60
	Cast Back for Stationary Knife, 21 in.	4½ pounds	2.80
1313	Steel Stationary Blade, 15 in.	12 ounces	1.50
	Steel Stationary Blade, 17 in.	1 pound	1.70
	Steel Stationary Blade, 19 in.	1½ pound	1.90
	Steel Stationary Blade, 21 in.	1½ pound	2.10
1314	Shaft for Frame, 15 in	2 pounds	1.60
	Shaft for Frame, 17 in.	2½ pounds	1.80
	Shaft for Frame, 19 in.	2½ pounds	2 00
	Shaft for Frame, 21 in.	2½ pounds	2.20
1315	Cylinder, complete, 5 Knives, 15 in.	7½ pounds	11.00
	Cylinder, complete, 5 Knives 17 in.	8½ pounds	12 00
	Cylinder, complete, 5 Knives, 19 in.	9 pounds	13 00
	Cylinder, complete, 6 Knives, 21 in.	9½ pounds	14 00
1316	Left Hand Cylinder Head	1 pound	2 40
1317	Right Hand Cylinder Head	1 pound	2.40
1318	Ring for Cylinder	7 ounces	1.20
1319	Spiral Knife for Cylinder, 15 in	12 ounces	1.60
	Spiral Knife for Cylinder, 17 in	14 ounces	1.80
	Spiral Knife for Cylinder, 19 in.	1 pound	2 00
	Spiral Knife for Cylinder, 21 in.	1½ pound	2.20
1320	Shaft for Cylinder, 15 in.	1¼ pound	80
	Shaft for Cylinder, 17 in.	1½ pound	95
	Shaft for Cylinder, 19 in.	2 pounds	1 05
	Shaft for Cylinder, 21 in.	2½ pounds	1 15
1321	Wood Roller, 15 in.	1½ pound	.90
	Wood Roller, 17 in.	1¾ pound	1 00
	Wood Roller, 19 in.	1¾ pound	1.10
	Wood Roller, 21 in.	2 pounds	1.20

No.	Article	Weight	Each
1322	Left Hand Roller Bracket	7 ounces	$ .30
1323	Right Hand Roller Bracket	7 ounces	.30
1324	Handle Brace, 15 in., each	1½ pound	70
	Handle Brace, 17 in., each	1¾ pound	.80
	Handle Brace, 19 in., each	1¾ pound	.90
	Handle Brace, 21 in., each	1¾ pound	1 00
1325	Wood Handle	3½ pounds	1.50
1326	Steel Pawl	1 ounce	10
1327	Steel Pin for Pinion, ½ x ½	1 ounce	05
1331	Set Screw for Adjusting Cast Back, ⅜ x 1½	1 ounce	10
1332	Set Screw for Fastening Cylinder Head to Shaft, square head, ⅜ x ½	1 ounce	.10
1333	Machine Screw for Stationary Knife Blade, Flat Head	1 ounce	.10
1334	Machine Screw for Wheel Bearing, ⅜ x 3½	2 ounces	.10
1335	Machine Screw for Bushing on Intermediate Gear, ⅜ x 1½	1 ounce	.10
1336	Bolt for Roller Bracket and Gear Box, ½ x 1½	1 ounce	.05
1336½	Bolt for Cast Back, ⅜ x 1½	1 ounce	.10
1337	Bolt for Handle Brace, ½ x 2½	1 ounce	10
1338	Washer for Wheel Bearing	1 ounce	.05
1339	Washer for Cast Back	1 ounce	.05
1340	Washer for Roller Bracket and Wood Handle, ½	1 ounce	05
1341	Nut for End of Frame Shaft, Hexagon	1 ounce	10
1343	Wrench	4 ounces	20
1344	Sharpening Crank	4 ounces	.20
1345	Left Hand Cone	4 ounces	.80
1346	Right Hand Cone	4 ounces	80
1347	Eccentric Screw for Adjusting Cone, ½ x 7/16	1 ounce	.25
1348	Set Screw for Cone, both alike, each, ⅜ x 7/16	1 ounce	.10
1349	Ball Cup (without balls)	2 ounces	60
1350	Dust Cap for Ball Cup	1 ounce	20
1351	One Set Balls with Retainer	2 ounces	.60
1352	Roller Pins	2 ounces	15
1353	Rivets for Cylinder Knives, ½ x 11/32	1 ounce	.06
	Handle Rings	7 ounces	.20
	Bolt for Handle Rings, ½ x 2½	1 ounce	.06

LAWN MOWER PARTS

PENNSYLVANIA JUNIOR BALL BEARING LOW WHEEL

FIVE KNIVES



Sizes, 12, 14, 16 and 18 Inches

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine.

Third.—If you have no open account with us, cash must accompany the order, including mailing charges, if parts can be mailed.

PRICES ON REQUEST

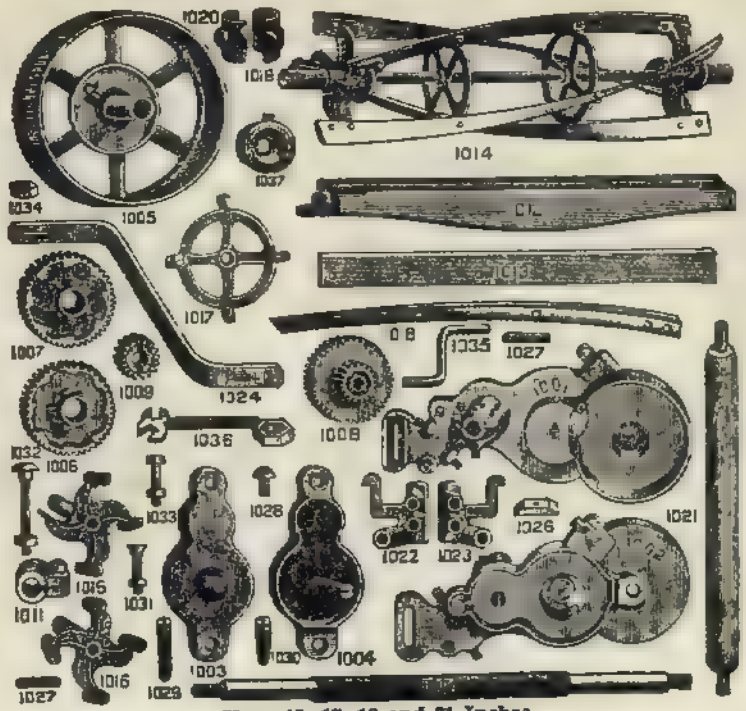
No.	Article	Weight	Each
B1201	Left Hand Side Plate, with Cup	4 pounds	$2 40
B1202	Right Hand Side Plate, with Cup	4 pounds	2 40
1203	Left Hand Shield	1¼ pound	1 40
1204	Right Hand Shield	1¼ pound	1 40
1205	Driving Wheel, (both alike, each	3¾ pounds	2 00
1206	Left Hand Master Gear, ¾ Hole	1¾ pound	1 20
1207	Right Hand Master Gear, 1¼ Hole	1¾ pound	1 20
1208	Intermediate Gear (both alike), ¾ hole, 20 cogs, each	4 ounces	80
1209	Pinion, both alike, ¾ hole, 12 Cogs each	3 ounces	50
1211	Bushing for Interior Gear, each	2 ounces	40
1212	Cast Back for Stationary Knife, 12 in	2½ pounds	1 00
	Cast Back for Stationary Knife, 14 in	2½ pounds	2 10
	Cast Back for Stationary Knife, 16 in	3 pounds	2 30
	Cast Back for Stationary Knife, 18 in	3½ pounds	2 50
1213	Steel Stationary Blade, 12 in	1 pound	80
	Steel Stationary Blade, 14 in	1 pound	1 20
	Steel Stationary Blade, 16 in	1 pound	1 40
	Steel Stationary Blade, 18 in	1¼ pound	1 60
1214	Shaft for Frame, 12 in	1½ pound	1 40
	Shaft for Frame, 14 in	1¾ pound	1 60
	Shaft for Frame, 16 in.	2 pounds	1 80
	Shaft for Frame, 18 in	2¼ pounds	2 00
1215	Cylinder complete, 5 Knives, 12 in	6¼ pounds	9 30
	Cylinder complete, 5 Knives, 14 in	6¾ pounds	10 00
	Cylinder, complete, 5 Knives, 16 in.	7¼ pounds	11 00
	Cylinder, complete, 5 Knives, 18 in.	8¼ pounds	12 00
1216	Left Hand Cylinder Head	1 pound	2 00
1217	Right Hand Cylinder Head	1 pound	2 00
1218	Ring for Cylinder	7 ounces	80
1219	Spiral Knife for Cylinder, 12 in.	10 ounces	1.20
	Spiral Knife for Cylinder, 14 in.	12 ounces	1 40
	Spiral Knife for Cylinder, 16 in.	14 ounces	1 60
	Spiral Knife for Cylinder, 18 in.	1 pound	1.80
1220	Shaft for Cylinder, 12 in.	1½ pound	60
	Shaft for Cylinder 14 in.	1¾ pound	70
	Shaft for Cylinder, 16 in.	1¾ pound	80
	Shaft for Cylinder, 18 in.	2 pounds	90
1221	Wood Roller 12 in.	1 pound	80
	Wood Roller 14 in.	1¼ pound	90
	Wood Roller, 16 in.	1½ pound	1 00
	Wood Roller, 18 in.	1½ pound	1 10

No.	Article	Weight	Each
1222	Left Hand Roller Bracket	2 ounces	$ 30
1223	Right Hand Roller Bracket	2 ounces	30
1225	Wood Handle	3½ pounds	1 50
1224	Handle Brace, 12 in	1 pound	50
	Handle Brace, 14 in	1½ pound	60
	Handle Brace, 16 in	1½ pound	70
	Handle Brace, 18 in	1½ pound	80
1226	Steel Pawl	1 ounce	.10
1227	Steel Driver Pivot, ¼ x ¾	1 ounce	05
1231	Set Screw for Adjusting Cast Back, ⅝ x 1¼	1 ounce	10
1232	Set Screw for Fastening Cylinder Head to Shaft, square head, ⅜ x ¾	1 ounce	10
1233	Machine Screw for Stationary Knife Blade, Flat Head, ¼ x ¾	1 ounce	.10
1234	Machine Screw for Wood Bearing, ⅜ x 5¼	2 ounces	10
1235	Machine Screw for Bushing or Intermediate Gear, ¼ x ⅝	2 ounce	10
1236	Bolt for Roller Bracket and Gear, Bolt ¼ x ⅝	1 ounce	05
1238½	Bolt for Cast Back, ⅜ x 1¾	1 ounce	10
1237	Rest for Handle Brace, ⅜ x 2½	1 ounce	10
1238	Washer for Wood Bearing	1 ounce	05
1239	Washer for Cast Back	1 ounce	05
1240	Washer for Roller Bracket and Wood Handle	1 ounce	05
1241	Nut for Frame Shaft, Hexagon	1 ounce	10
1243	Wrench	4 ounces	.20
1244	Sharpening Crank	4 ounces	.20
1245	Left Hand Cone	4 ounces	.80
1246	Right Hand Cone	4 ounces	.80
1247	Adjusting Screw for Left Hand Cone, ⅜ x ...	1 ounce	.25
1248	Set Screw for Cones, both alike, each, ⅜ x ⅝	1 ounce	.10
1249	Ball Cup (without balls)	2 ounces	.60
1250	Dust Cap for Ball Cup	1 ounce	.20
1251	One Set Balls with Retainer	2 ounces	.60
1252	Roller Pins	1 ounce	.15
1253	Rivets for Cylinder Knives, ⅛ x ¾	1 ounce	.05
	Handle Rings	7 ounces	20
	Bolt for Handle Rings, ¼ x 2½	1 ounce	05

LAWN MOWER PARTS

CONTINENTAL HIGH WHEEL—4 KNIVES

PRICES ON REQUEST



Sizes, 15, 17, 19 and 21 Inches

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine.
Third.—If you have no open account with us, cash must accompany the order, including mailing charges if parts can be mailed.

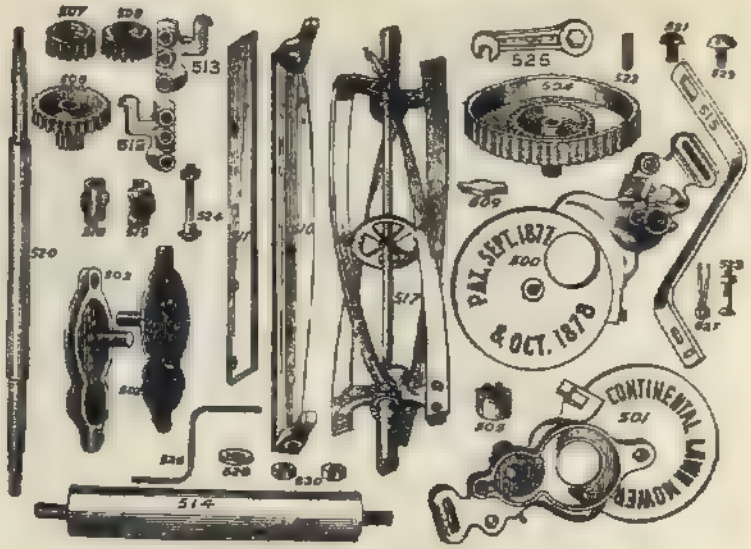
No.	Article	Weight	Each
1001	Left Hand Side Plate	4½ pounds	$4 00
1002	Right Hand Side Plate	4½ pounds	4.00
1003	Left Hand Shield	1½ pound	1.40
1004	Right Hand Shield	1½ pound	1 40
1005	Driving Wheels, both alike, each	5 pounds	2.50
1006	Left Hand Ratchet Gear, 1¼ Hole	1½ pound	.80
1007	Right Hand Ratchet Gear, 1¼ Hole	1½ pound	.80
1008	Double Gears, ¾ Hole, both alike, each	1½ pound	.80
1009	Pinion, ¾ Hole, 17 cogs, both alike	7 ounces	50
1010	Shaft, for frame, 15 in.	2½ pounds	1.60
	Shaft, for frame, 17 in.	3½ pounds	1.80
	Shaft, for frame, 19 in.	3½ pounds	2.00
	Shaft, for frame, 21 in.	3½ pounds	2.20
1011	Collar on Shaft	7 ounces	40
1012	Cast Back for Stationary Knife, 15 in.	3½ pounds	2.20
	Cast Back for Stationary Knife, 17 in.	3½ pounds	2 40
	Cast Back for Stationary Knife, 19 in.	4½ pounds	2.60
	Cast Back for Stationary Knife, 21 in.	5½ pounds	2.80
1013	Steel Stationary Blade, 15 in.	12 ounces	1 50
	Steel Stationary Blade, 17 in.	14 ounces	1 70
	Steel Stationary Blade, 19 in.	1 pound	1 90
	Steel Stationary Blade, 21 in.	1½ pound	2 10
1014	Cylinder complete, 15 in.	6½ pounds	11 00
	Cylinder, complete, 17 in.	7½ pounds	12 00
	Cylinder, complete, 19 in.	8½ pounds	13 00
	Cylinder, complete, 21 in.	9½ pounds	14 00
1015	Left Hand Cylinder Head	1½ pound	2.40
1016	Right Hand Cylinder Head	1½ pound	2.40
1017	Cylinder Rings, each	8 ounces	1.00
1018	Spiral Knives, each, 15 in.	12 ounces	1.60
	Spiral Knives, each, 17 in.	14 ounces	1.80
	Spiral Knives, each, 19 in.	1 pound	2.00
1018	Spiral Knives, each, 21 in.	1½ pound	$2 20
1019	Left Hand Cylinder Cap	4 ounces	40
1020	Right Hand Cylinder Cap	4 ounces	40
1021	Wood Roller, 15 in.	1¼ pound	90
	Wood Roller, 17 in.	1½ pound	1.00
	Wood Roller, 19 in.	1¾ pound	1.10
	Wood Roller, 21 in.	2 pounds	1.20
1022	Left Hand Roller Bracket	7 ounces	.30
1023	Right Hand Roller Bracket	7 ounces	.30
1024	Handle Braces, 15 in	1½ pound	.60
	Handle Braces, 17 in	1½ pound	.70
	Handle Braces, 19 in	1½ pound	80
	Handle Braces, 21 in	1¾ pound	90
1025	Wood Handle	3½ pounds	1.50
1026	Steel Pawl	1 ounce	10
1027	Steel Pin for Pinion	1 ounce	.05
1028	Machine Screw for Stationary Knife, ¼ x ⅜, Round Head	1 ounce	.10
1029	Set Screw for Stationary Knife, ¼ x 1¼	1 ounce	.10
1030	Set Screw for Cylinder Cap, ¼ x ½	1 ounce	.10
1031	Bolt for Roller Bracket, Stationary Knife or Shield, ¼ x 1¼	1 ounce	.05
1032	Bolt for Wood Handle, ¼ x 2½	1 ounce	.10
1033	Bolt for Split Collar, ¼ x 1½	1 ounce	.10
1034	Nut for end of Shaft, Hexagon	1 ounce	.10
1035	Sharpening Crank	5 ounces	.20
1036	Wrench	6 ounces	.40
1037	Washer for Cast Back, ¼ Hole	1 ounce	.05
1038	Roller Pins	2 ounces	.15
1039	Rivets for Cylinder Knives, ¼ x ¼	1 ounce	.05
	Handle Rings, each	7 ounces	.10
	Bolt for Handle Rings, ¼ x 2½	1 ounce	.05

LAWN MOWER PARTS

PRICES ON REQUEST

CONTINENTAL LOW WHEEL

FOUR KNIVES



Sizes, 10, 12, 14, 16 and 18 Inches

Instructions for Ordering Extra Parts

First. Give **Number** with description of Parts. **Second.** Always give **Width of Cut** and **Name of Machine**
Third.—If you have no open account with us, cash must accompany the order including mailing charges if parts can be mailed

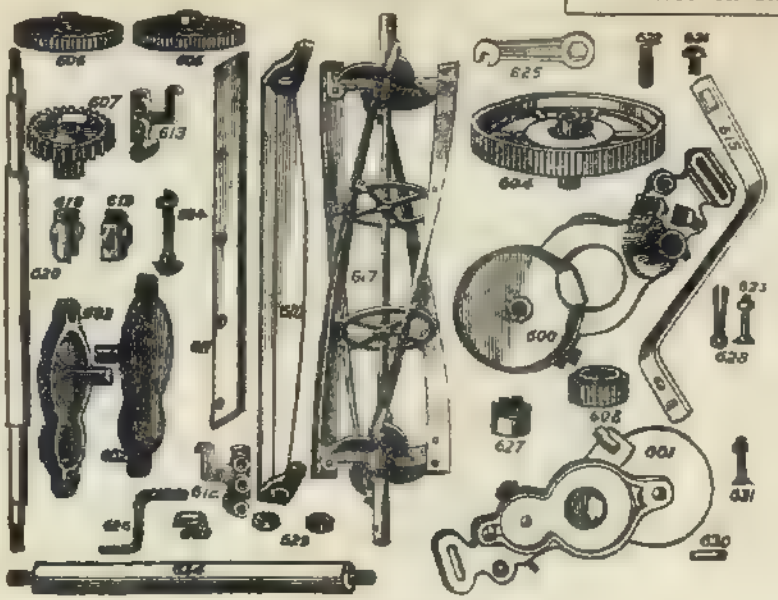
No.	Article	Weight	Each
500	Left Hand Side Plate	4 pounds	$3 40
501	Right Hand Side Plate	4 pounds	3.40
502	Left Hand Shield	1½ pound	.80
503	Right Hand Shield	1½ pound	80
504	Driving Wheel, both alike, each	3¾ pounds	2.00
505	Collar on Shaft	2 ounces	.20
506	Intermediate Double Gear, ½ Hole	1 pound	80
507	Right Hand Pinion, ½ Hole, 17 Cogs	8 ounces	50
508	Left Hand Pinion, ½ Hole, 17 Cogs	8 ounces	50
509	Steel Pawl	1 ounce	10
510	Cast Back for Stationary Knife, 10 in.	2 pounds	1 70
	Cast Back for Stationary Knife, 12 in.	2¼ pounds	1 90
	Cast Back for Stationary Knife, 14 in.	2½ pounds	2 10
	Cast Back for Stationary Knife, 16 in.	2¾ pounds	2.30
	Cast Back for Stationary Knife, 18 in.	3¼ pounds	2.50
511	Steel Stationary Blade, 10 in.	8 ounces	1 00
	Steel Stationary Blade, 12 in.	10 ounces	1 20
	Steel Stationary Blade, 14 in.	12 ounces	1 40
	Steel Stationary Blade, 16 in.	14 ounces	1 60
	Steel Stationary Blade, 18 in.	1 pound	1 80
512	Right Hand Roller Bracket	7 ounces	.30
513	Left Hand Roller Bracket	7 ounces	.30
514	Wood Roller 10 in.	1 pound	.70
	Wood Roller, 12 in.	1¼ pound	.80
	Wood Roller, 14 in.	1¼ pound	90
	Wood Roller, 16 in.	1½ pound	1 00
	Wood Roller 18 in.	1¾ pound	1.10
515	Handle Brace, each, 10 in.	1 pound	.40
	Handle Brace, each, 12 in.	1 pound	50
	Handle Brace, each, 14 in.	1¼ pound	60
	Handle Brace, each, 16 in.	1¼ pound	.70
	Handle Brace, each, 18 in.	1½ pound	.80
516	Wood Handle	3¼ pounds	1 50
517	Cylinder, complete, 3 Knives, 10 in.	4 pounds	8.00
	Cylinder, complete, 3 Knives, 12 in.	4¼ pounds	9.00
	Cylinder, complete, 4 Knives, 14 in.	5¼ pounds	10.00
517	Cylinder, complete, 4 Knives, 16 in.	5¼ pounds	$11.00
	Cylinder, complete, 4 Knives, 18 in.	6¼ pounds	12 00
518	Right Hand Cylinder Cap	4 ounces	40
519	Left Hand Cylinder Cap	4 ounces	40
520	Shaft for Frame, 10 in.	2 pounds	1.20
	Shaft for Frame, 12 in.	2¼ pounds	1.40
	Shaft for Frame, 14 in.	2¼ pounds	1.60
	Shaft for Frame, 16 in.	2¾ pounds	1.80
	Shaft for Frame, 18 in.	3¼ pounds	2 00
521	Machine Screw, ¼ x ½, Round Head	1 ounce	.10
522	Set Screws for Adjusting Stationary Knife and Cyl Cap, ¼ x 1¼	1 ounce	.10
523	Bolt for Roller Bracket and Stationary Knife, ¼ x 1¼	1 ounce	10
524	Bolt for Wood Handle, ¼ x 2¼	2 ounces	10
525	Wrench	6 ounces	40
526	Sharpening Crank	4 ounces	20
527	Split Pin	1 ounce	.05
528	Washer for Cylinder End, ¼	1 ounce	.10
529	Machine Screw for Cylinder End, ¼ x ¾	1 ounce	.20
530	Nut for End of Shaft, Hexagon	1 ounce	.10
531	Spiral Blade for Cylinder, 10 in.	8 ounces	1.00
	Spiral Blade for Cylinder, 12 in.	10 ounces	1.20
	Spiral Blade for Cylinder, 14 in.	12 ounces	1.40
	Spiral Blade for Cylinder, 16 in.	14 ounces	1 60
	Spiral Blade for Cylinder, 18 in.	1 pound	1.80
532	Cylinder Ends, state if Right or Left Hand	1½ pound	2 00
533	Cylinder Rings	6 ounces	.60
534	Roller Pins	2 ounces	.15
535	Rivets for Cylinder, ¼ x ⅜	1 ounce	05
1037	Cast Washer for Cast Back	1 ounce	.05
	Handle Rings, each	7 ounces	.20
	Bolts for Handle Rings ¼ x 2¼	1 ounce	.05

LAWN MOWER PARTS

CONTINENTAL HIGH WHEEL—PRIOR TO 1900

FOUR KNIVES

Prices on Request



Sizes, 15, 17, 19 and 21 Inches

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts **Second.**—Always give **Width of Cut** and **Name** of Machine.
Third.—If you have no open account with us, cash must accompany the order, including mailing charges, if parts can be mailed

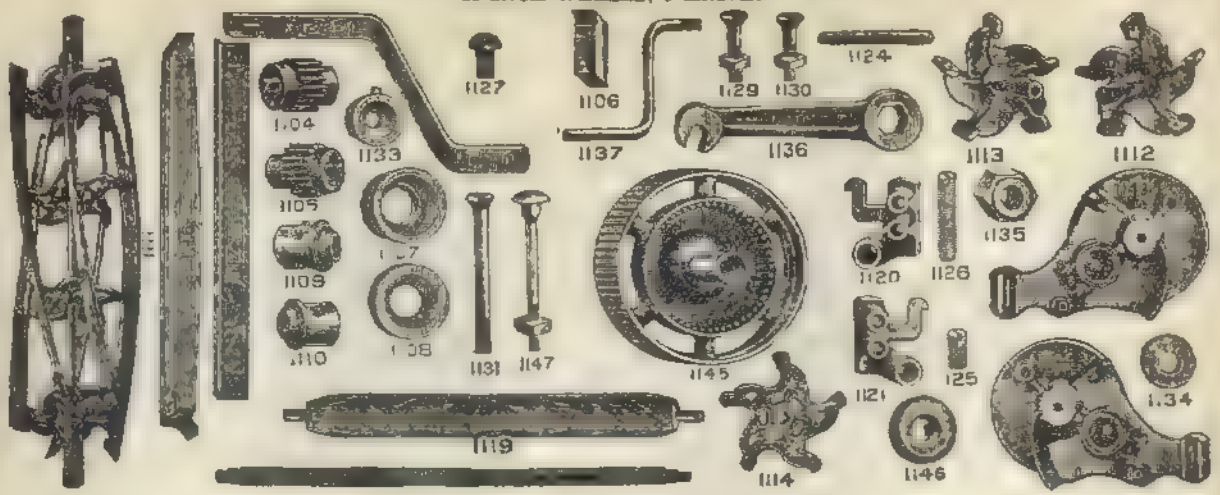
No.	Article	Weight	Each
600	Left Hand Side Plate	4¼ pounds	$4 30
601	Right Hand Side Plate	4¼ pounds	4 00
602	Left Hand Shield	1½ pound	1 40
603	Right Hand Shield	1½ pound	1 40
604	Driving Wheel, both alike, each	5 pounds	2 50
605	Left Hand Ratchet Gear, 1¼ Hole	1½ pound	80
606	Right Hand Ratchet Gear, 1¼ Hole	1½ pound	80
607	Double Gear, both alike, each ¾ Hole	1¼ pound	80
608	Pinion, both alike, each ¾ Hole, 17 Cogs	17 ounces	.50
609	Steel Pawl	1 ounce	10
610	Cast Back for Stationary Knife, 15 in	3½ pounds	2.20
	Cast Back for Stationary Knife, 17 in	3¾ pounds	2 40
	Cast Back for Stationary Knife, 19 in.	4¼ pounds	2 60
	Cast Back for Stationary Knife, 21 in.	5¼ pounds	2 80
611	Steel Stationary Blade, 15 in.	12 ounces	1 50
	Steel Stationary Blade, 17 in.	14 ounces	1 70
	Steel Stationary Blade 19 in.	1 pound	1 90
	Steel Stationary Blade 21 in.	1¼ pound	2 10
612	Left Hand Roller Bracket	7 ounces	30
613	Right Hand Roller Bracket	7 ounces	30
614	Wood Roller, 15 in	1¾ pound	90
	Wood Roller, 17 in.	1¾ pound	1 00
	Wood Roller, 19 in.	1¾ pound	1 10
	Wood Roller, 21 in	2 pounds	1.20
615	Handle Brace, 15 in	1¼ pound	.60
	Handle Brace, 17 in	1½ pound	70
	Handle Brace, 19 in	1¾ pound	.80
	Handle Brace, 21 in	1¾ pound	.90
616	Wood Handle	3¼ pounds	1 50
617	Cylinder, complete, 4 Knives, 15 in	6¼ pounds	11 00
	Cylinder, complete, 4 Knives, 17 in	7¼ pounds	12 00
	Cylinder, complete, 4 Knives, 19 in	8¼ pounds	13 00
617	Cylinder, complete, 4 Knives, 21 in.	9¼ pounds	$14 00
618	Left Hand Cylinder Cap	4 ounces	40
619	Right Hand Cylinder Cap	4 ounces	40
620	Shaft for Frame, 15 in	2¾ pounds	1 60
	Shaft for Frame, 17 in	3¼ pounds	1 80
	Shaft for Frame, 19 in..	3½ pounds	2 00
	Shaft for Frame, 21 in...	3¾ pounds	2 20
621	Machine Screw for Dead Knife, ¼ x ½, Round Head	1 ounce	.10
622	Set Screw for Adjusting Stationary Knife, ¼ x 1½	1 ounce	.10
623	Bolt for Roller Bracket and Stationary Knife, ¼ x 1½	1 ounce	.05
624	Bolt for Wood Handle, ¼ x 2½	1 ounce	10
625	Wrench	6 ounces	40
626	Sharpening Crank	3 ounces	20
627	Cast Collar on Shaft	3 ounces	40
628	Split Pin	2 ounces	05
629	Nut for End of Shaft, Hexagon	1 ounce	10
630	Pin for Pinion, ⅛ x 1	1 ounce	05
631	Bolt for Box, ¼ x 1¼	1 ounce	.05
632	Spiral Blade for Cylinder, 15 in	12 ounces	1.60
	Spiral Blade for Cylinder, 17 in.	12 ounces	1.80
	Spiral Blade for Cylinder 19 in	1 pound	2.00
	Spiral Blade for Cylinder, 21 in	1¼ pound	2.20
633	Cylinder Ring	8 ounces	1.00
634	Cylinder End State Whether Right or Left.	1¼ pound	2.40
635	Roller Pin	2 ounces	.15
636	Rivet for Cylinder, ¼ x ⅛	1 ounce	.05
1037	Cast Washer for Cast Back	1 ounce	05
	Handle Rings, each	7 ounces	.20
	Bolt for Handle Rings, ¼ x 2½	1 ounce	05

LAWN MOWER PARTS

GREAT AMERICAN BALL BEARING

10 INCH WHEELS, 5 KNIVES

Prices on Request



15, 17, 19 and 21 inches

Instructions for Ordering Extra Parts

1ST. Give NUMBER with description of Parts.

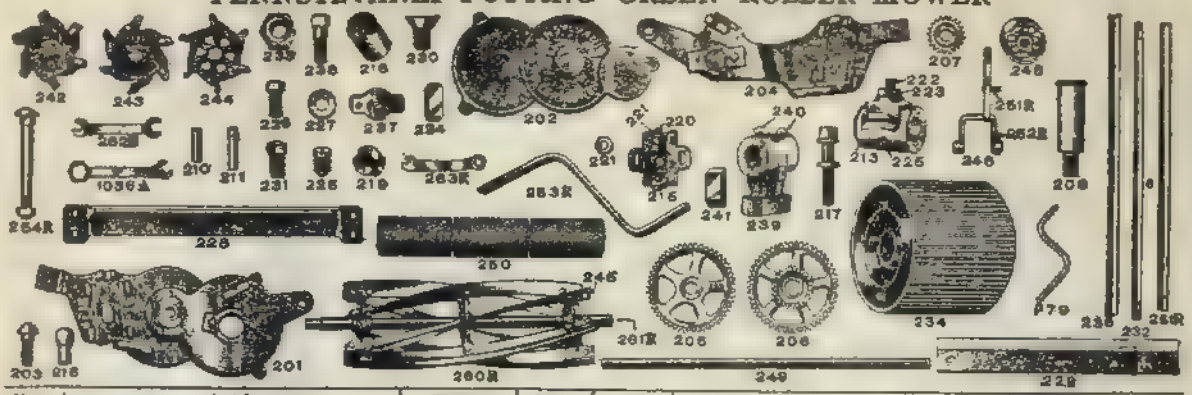
2ND. Always give WIDTH OF CUT and NAME of Machine.

3RD. If you have no open account with us cash must accompany the order, including mailing charges, if parts can be mailed.

No.	Article	Weight	Each
1143	Left Hand Side Plate, with Cup	4 pounds	$4.00
1144	Right Hand Side Plate, with Cup	4 pounds	4.00
1145	Driving Wheel (both alike)	7 pounds	2.50
1104	Left Hand Pinion, ⅜ Hole, 13 Cogs	4 ounces	.50
1105	Right Hand Pinion, ⅜ Hole, 13 Cogs	4 ounces	.50
1106	Steel Pawl (both alike)	1 ounce	.10
1107	Ball Cup alike, without Balls	3 ounces	.60
1108	Dust Cap for Ball Cup	1 ounce	.20
1109	Left Hand Cone	4 ounces	.80
1110	Right Hand Cone	4 ounces	.80
1111	Cylinder, complete, 15 in.	7 pounds	11.00
	Cylinder, complete, 17 in	7½ pounds	12.00
	Cylinder, complete, 19 in	8½ pounds	13.00
	Cylinder, complete, 21 in	9 pounds	14.00
1112	Left Hand Cylinder Head	1½ pound	2.40
1113	Right Hand Cylinder Head	1½ pound	2.40
1114	Cylinder Ring	8 ounces	.60
1115	Cylinder Knife, 15 in	9 ounces	1.60
	Cylinder Knife, 17 in.	10 ounces	1.80
	Cylinder Knife, 19 in	12 ounces	2.00
	Cylinder Knife, 21 in	15 ounces	2.20
1116	Cast Back for Stationary Knife, 15 in	3½ pounds	2.20
	Cast Back for Stationary Knife, 17 in	4 pounds	2.40
	Cast Back for Stationary Knife, 19 in	4½ pounds	2.60
	Cast Back for Stationary Knife 21 in	5½ pounds	2.80
1117	Steel Stationary Blade, 15 in	1 pound	1.50
	Steel Stationary Blade, 17 in	1½ pound	1.70
	Steel Stationary Blade, 19 in.	1½ pound	1.90
	Steel Stationary Blade, 21 in	1⅞ pound	2.10
1118	Shaft for Frame, 15 in	2 pounds	1.20
	Shaft for Frame, 17 in	2½ pounds	1.40
	Shaft for Frame, 19 in	2⅞ pounds	1.60
	Shaft for Frame, 21 in	3 pounds	1.80
1119	Wood Roller, 15 in	1¼ pound	1.00
	Wood Roller, 17 in	1½ pound	1.10
	Wood Roller, 19 in	1¾ pound	$1.20
	Wood Roller, 21 in	2 pounds	1.30
1120	Left Hand Roller Bracket	7 ounces	.30
1121	Right Hand Roller Bracket	7 ounces	.30
1122	Handle Brace 15 in	1½ pound	.70
	Handle Brace 17 in	1½ pound	.80
	Handle Brace, 19 in	1½ pound	.90
	Handle Brace, 21 in	1½ pound	1.00
1123	Wood Handle	3¼ pounds	1.50
1124	Steel Pin for Cone, ½ x 1¼	1 ounce	.10
1125	Steel Set Screw for Cone, ⅜ x ⅜	1 ounce	.10
1126	Set Screw for Regulating Cast Back, ⅜ x 1½	1 ounce	.10
1127	Machine Screw for Stationary Knife Blade, ¼ x ½	1 ounce	.10
1128	Bolt for Wood Handle, ¼ x 2½	2 ounces	.10
1129	Bolt for Cast Back, ¼ x 1¼	1 ounce	.05
1130	Bolt for Roller Bracket, ¼ x 1¼	1 ounce	.05
1131	Bolt for Wheel, 1103, old style, ⅜ x 3	2 ounces	.20
1132	Washer for Wheel, 1103, old style	1 ounce	.05
1133	Washer for Cast Back, ½	1 ounce	.05
1134	Washer for Roller Bracket Bolt, ¼	1 ounce	.05
1135	Nut for End of Shaft, Hexagon	1 ounce	.10
1136	Wrench	6 ounces	.20
1137	Sharpening Crank	4 ounces	.20
1138	Balls complete Set for one Cup, with Retainer	2 ounces	.60
1139	Rivets for Cylinder Knives, ⅛ x ½	1 ounce	.05
1140	Roller Pins, each	2 ounces	.15
1141	Shaft for Cylinders, 15 in	8 ounces	1.00
	Shaft for Cylinders, 17 in	12 ounces	1.20
	Shaft for Cylinders, 19 in	14 ounces	1.40
	Shaft for Cylinders, 21 in	1 pound	1.60
1146	Washer for Wheel, 1145	1 ounce	.05
1147	Bolt for Wheel, 1145, ¼ x 3½	2 ounces	.20
1148	Steel Stud for Side Plates 1143 and 1144	7 ounces	.80
	Handle Rings each	7 ounces	.20
	Bolt for Handle Rings, ¼ x 2½	1 ounce	.05

LAWN MOWER PARTS Prices on Request

PENNSYLVANIA PUTTING GREEN ROLLER MOWER

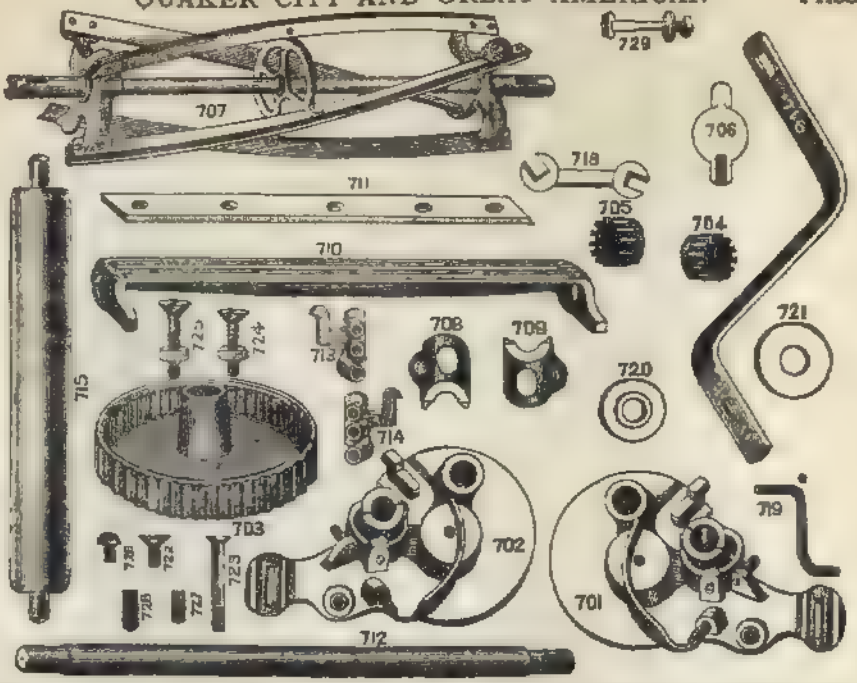


No.	Article	Weight	Price
201	Right Hand Side Plate	5½ pounds	$5.00
202	Right Hand Shield	2½ pounds	2.50
203	Round Head Machine Screw ⅜ x ½ in.	1 ounce	.10
204	Left Hand Side Plate	4 pounds	4 00
205	Master Gear	1½ pound	1 40
206	Double Gear	1¾ pound	1 60
207	Pinion for Cylinder	8 ounces	50
208	Stud for Double Gear	8 ounces	.80
210	Key for Master Gear	1 ounce	.05
211	Steel Pin for Pinion	1 ounce	05
212	Univ. Jour Box with Bushing, Right	10 ounces	1 30
213	Univ. Jour Box with Bushing, Left	10 ounces	1.30
214	Hanger for Bearing, Right Hand	1¼ pound	.80
215	Hanger for Bearing, Left Hand	1½ pound	80
216	Brs Bush. for Univ. Jour. Box (alike)	4 ounces	80
217	Regulating Screw to Adjust Cylinder	3 ounces	30
218	Lower Support for Univ Jour. Box	1 ounce	10
219	Upper Support for Univ Jour. Box	1 ounce	10
220	Set Screw for Upper Support	2 ounces	20
221	Jamb Nut	1 ounce	.05
222	Set Screw to Adjust Bushing	1 ounce	05
223	Jamb Nut for same	1 ounce	.05
224	Steel Shoe inside Univ Jour. Box	1 ounce	.10
225	Headless Set Screw to hold Bushing in Universal Journal Box.	1 ounce	05
226	Cap Screw to attach Hanger, ¼x½ in.	1 ounce	10
227	Washer for same	1 ounce	.05
228	Cast Back only 10 in.	3½ pounds	1.70
	Cast Back only 12 in.	3¾ pounds	1.90
	Cast Back only 14 in.	4 pounds	2 10
	Cast Back only 16 in.	4½ pounds	2.30
	Cast Back only 18 in.	4¾ pounds	2.50
229	Steel Blade only 10 x 2⅛ in.	¾ pound	.80
	Steel Blade only 12 x 2⅛ in.	1 pound	1.00
	Steel Blade only 14 x 2⅛ in.	1¼ pound	1 20
	Steel Blade only 16 x 2⅛ in	1½ pound	1 40
	Steel Blade only 18 x 2⅛ in.	1¾ pound	1.60
230	Flat Head Screw for same ⅜ x ½ in	1 ounce	05
231	S H Screw attach Cast Back ½ x ⅜ in.	1 ounce	.10
232	Shaft for Frame, 10 in.	1½ pound	1.20
	Shaft for Frame, 12 in.	1¾ pound	1.40
	Shaft for Frame, 14 in.	1¾ pound	1.60
	Shaft for Frame, 16 in.	1¾ pound	1.80
	Shaft for Frame, 18 in.	2 pounds	2.00
233	Hexagon Nut for same, Stud No. 208	2 ounces	.10
234	Right Hand Driving Drum, 10 in	7½ pounds	2 00
	Right Hand Driving Drum, 12 in.	8½ pounds	2 50
	Right Hand Driving Drum, 14 in.	9½ pounds	3 00
	Right Hand Driving Drum, 16 in.	10½ pounds	3.50
	Right Hand Driving Drum, 18 in.	11½ pounds	4.00
235	Left Hand Driving Drum, 10 in	8 pounds	2.00
	Left Hand Driving Drum, 12 in.	9 pounds	2.50
	Left Hand Driving Drum, 14 in.	10 pounds	3.00
	Left Hand Driving Drum, 16 in.	10½ pounds	3.50
	Left Hand Driving Drum, 18 in.	11½ pounds	4.00
236	Shaft for Driving Drum, 10 in.	2 pounds	1.20
	Shaft for Driving Drum, 12 in.	2½ pounds	$1.40
	Shaft for Driving Drum, 14 in.	2½ pounds	1 60
	Shaft for Driving Drum, 16 in.	2½ pounds	1 80
	Shaft for Driving Drum, 18 in.	3 pounds	2 00
237	Bearings (both alike)	10 ounces	1 00
238	Cap Bolt to fasten same, ⅜ x ⅞ in.	1 ounce	10
239	Pawl Holder	13 ounces	1.20
240	Set Screw for same, ⅞ x ⅜ in.	1 ounce	.10
241	Steel Pawl	1 ounce	10
260R	Cylinder, complete, 10 in.	5½ pounds	10.00
	Cylinder, complete, 12 in.	6½ pounds	11 00
	Cylinder, complete, 14 in.	7½ pounds	12 00
	Cylinder, complete, 16 in.	8 pounds	13 00
	Cylinder, complete, 18 in.	8½ pounds	14 00
261R	Steel Shaft, 10 in.	1¼ pound	1.30
	Steel Shaft, 12 in.	1½ pound	1.50
	Steel Shaft, 14 in.	2 pounds	1 70
	Steel Shaft, 16 in.	2½ pounds	1 90
	Steel Shaft, 18 in.	2½ pounds	2.10
242	Left Hand Cylinder Head	1½ pound	2 60
243	Right Hand Cylinder Head	1½ pound	2 60
244	Ring for Cylinder	8 ounces	80
245	Spiral Knife, 10 in.	9 ounces	1 20
	Spiral Knife, 12 in.	10 ounces	1 40
	Spiral Knife, 14 in.	11 ounces	1.60
	Spiral Knife, 16 in.	12 ounces	1 80
	Spiral Knife, 18 in.	13 ounces	2.00
P91	Rivets for Cylinder Blades, ¼ x ⅞ in.	1 ounce	05
P79	Sharpening Crank, ⅞ in	4 ounces	20
246	Right Hand Castor Fork (Malleable)	12 ounces	1.60
247	Left Hand Castor Fork (Malleable)	12 ounces	1.60
248	Castor Wheel only	13 ounces	50
249	Shaft Wood Roller and Castor, 10 in.	1 pound	50
	Shaft Wood Roller and Castor, 12 in.	1¼ pound	70
	Shaft Wood Roller and Castor, 14 in.	1¾ pound	90
	Shaft Wood Roller and Castor, 16 in.	1¾ pound	1 10
	Shaft Wood Roller and Castor, 18 in.	1¾ pound	1.30
250	Front Wood Roller (3 sections), 10 in.	7 ounces	.80
	Front Wood Roller (3 sections), 12 in.	8 ounces	1.00
	Front Wood Roller (3 sections), 14 in.	11 ounces	1.20
	Front Wood Roller (3 sections), 16 in.	13 ounces	1.40
	Front Wood Roller (3 sections), 18 in.	15 ounces	1.60
251R	Bolt to fasten Castor, ⅜ x ⅞ in.	2 ounces	.10
252R	Cotter Pin for Shaft.	1 ounce	.05
253R	Handle Brace (both alike), 10 in.	1 pound	.50
	Handle Brace (both alike), 12 in.	1¼ pound	.60
	Handle Brace (both alike), 14 in.	1½ pound	.70
	Handle Brace (both alike), 16 in.	1¾ pound	.80
	Handle Brace (both alike), 18 in.	1¾ pound	.90
254R	Bolt for same, ⅜ x 2¼ in.	2 ounces	.10
255R	Washer for same	1 ounce	.05
256R	Wood Handle	3¼ pounds	1.60
262R	Wrench for Hexagon Nuts (Mall.)	4 ounces	.40
263R	Socket Wrench (Malleable)	5 ounces	.40
1036A	Wrench (Malleable)	5 ounces	.40
	Bolts for handle rings, ⅜ x 2¼	1 ounce	.05

LAWN MOWER PARTS

QUAKER CITY AND GREAT AMERICAN

Prices on Request



3 AND 4 KNIVES

Sizes 10, 12, 14 16 and 18 inches

Note.—Parts for the 10 and 12 inch Mowers are numbered 801 up, corresponding to the 701 line below. If right hand side plate for 10 or 12 inch is wanted, order number 802. Right hand pinion 805, etc.

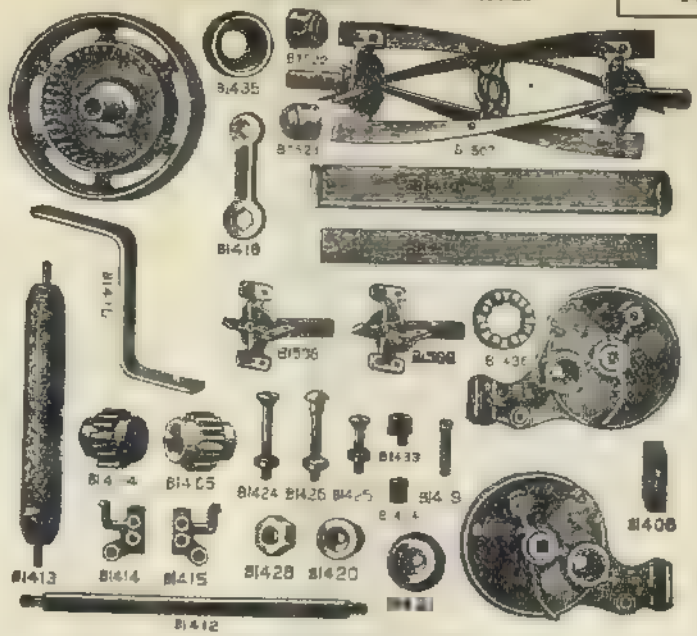
No.	Article	Weight	Each
701	Left Hand Side Plate	3½ pounds	$3 00
702	Right Hand Side Plate	3½ pounds	3 00
703	Driving Wheels, both alike, each	3½ pounds	1 50
704	Left Hand Pinion, 14 Cogs	6	50
705	Right Hand Pinion, 14 Cogs	6 ounces	50
706	Pawls, both alike, each	1 ounce	10
807	Cylinder Complete (state if solid or open) 3 Knives, 10 in.	4½ pounds	7 00
	Cylinder Complete (state if solid or open) 3 Knives, 12 in.	4¾ pounds	8 00
707	Cylinder, complete (state if solid 3 Knives or open 4 Knives), 14 in	5½ pounds	10 00
	Cylinder, complete (state if solid 3 Knives or open 4 Knives), 16 in	5½ pounds	11 00
	Cylinder, complete (state if solid 3 Knives or open 4 Knives), 18 in	6¼ pounds	12 00
708	Left Hand Cylinder Cap	3 ounces	40
709	Right Hand Cylinder Cap	3 ounces	40
810	Cast Back for Stationary Knife, 10 in.	1½ pound	1 40
	Cast Back for Stationary Knife, 12 in.	1¾ pound	1.50
716	Cast Back for Stationary Knife, 14 in.	2½ pounds	1 70
	Cast Back for Stationary Knife, 16 in.	3½ pounds	1 90
	Cast Back for Stationary Knife, 18 in.	3½ pounds	2 10
811	Steel Stationary Knife 10 in.	4 ounces	70
	Steel Stationary Knife, 12 in.	5 ounces	.80
711	Steel Stationary Blade, 14 in	7 ounces	90
	Steel Stationary Blade, 16 in	8 ounces	1 00
	Steel Stationary Blade, 18 in	10 ounces	1 10
812	Shaft, for frame, 10 in	1½ pound	60
	Shaft, for frame 12 in	1½ pound	70
712	Shaft, for frame, 14 in.	2 pounds	.80
	Shaft, for frame, 16 in.	2½ pounds	1.00
	Shaft, for frame, 18 in	2⅔ pounds	1.20
713	Left Hand Roller Bracket	7 ounces	30
714	Right Hand Roller Bracket	7 ounces	.30
815	Wood Roller, 10 in.	1 pound	70
	Wood Roller, 12 in.	1¼ pound	.80
715	Wood Roller, 14 in.	1½ pound	90
715	Wood Roller, 16 in.	1½ pound	$1 00
	Wood Roller, 18 in.	1¾ pound	1.10
816	Hand e Brace, both alike, 10 in., each	12 ounces	.40
	Handle Brace, both alike, 12 in., each	1 pound	.50
716	Handle Brace, both alike, 14 in., each	1 pound	.60
	Handle Brace, both alike, 16 in., each	1¼ pound	.70
	Handle Brace, both alike, 18 in., each	1½ pound	.80
817	Wood Handle	2¾ pounds	1.50
718	Wrench	4 ounces	20
720	Cast Inside Washers for Dead Knife,	1 ounce	.05
721	Cast Washers for Pinion	1 ounce	.05
721½	Cast Washers for Wheel	1 ounce	05
722	Mach. Screws for end Cylinder, ⅜ x ⅛	1 ounce	10
723	Machine Screws, for end of Driving Wheel, 3 x ⅜	2 ounces	.20
724	Bolts for Dead Knife, ¼ x 1¼	1 ounce	.05
725	Bolts for Roller Bracket, ¼ x 1¼	1 ounce	.05
726	Machine Screw for Dead Knife, ¼ x ⅛ Round Head	1 ounce	10
727	Set Screw for Adjusting Cylinder Cap, both alike, each ⅜ x ⅛	1 ounce	.10
728	Set Screw for Adjusting Dead Knife, both alike, each ⅜ x 1⅜	1 ounce	.10
729	Bolts for Wood Handle, ¼ x 2½	1 ounce	.10
830	Spiral Knife (state if open or solid), 10 in.	8 ounces	1.00
	Spiral Knife (state if open or solid), 12 in.	9 ounces	1.20
730	Spiral Knife (state if open or solid), 14 in.	12 ounces	1.40
	Spiral Knife (state if open or solid), 16 in.	14 ounces	1.60
	Spiral Knife (state if open or solid), 18 in.	1 pound	1.80
731	Cylinder Rings	5 ounces	.60
732	Cylinder Ends (state if Right or Left)	1¾ pound	1.50
733	Roller Pins, each,	2 ounces	.15
734	Rivets for Cylinder Knives, ¼ x ⅛	1 ounce	.05

LAWN MOWER PARTS

TEN INCH WHEEL, FOUR KNIVES

Prices on Request

RED CLOUD
BALL BEARING



PANAMA
PLAIN BEARING

Sizes, 14, 16 and 18 Inches

Note.—The letter B in front of the number denotes that part is for the Ball Bearing machine only.

Instructions for Ordering Extra Parts

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine **Third.**—If you have no open account with us cash must accompany the order including mailing charges if parts can be mailed.

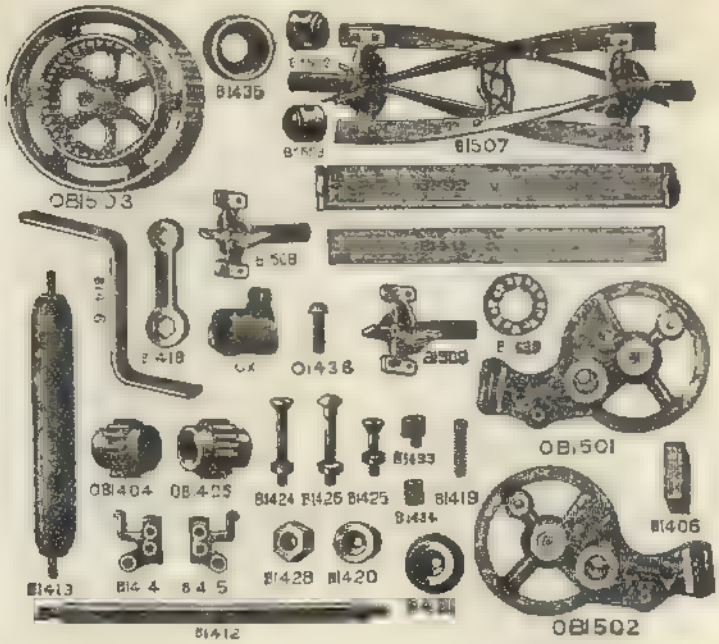
No.	Article	Weight	Each
B1501	Left Hand Side Plate, with Ball Cup	3½ pounds	$3.00
B1502	Right Hand Side Plate, with Ball Cup	3½ pounds	3.00
1501	Left Hand Side Plate, for Plain Bearing	3½ pounds	2.00
1502	Right Hand Side Plate, for Plain Bearing	3½ pounds	2.00
1503	Driving Wheel both alike, 10 in. diameter, each	6½ pounds	2.50
1404	Left Hand Pinion, ½ 13 Cogs	4 ounces	.50
1405	Right Hand Pinion ½, 13 Cogs	4 ounces	.50
1406	Pawl, both alike each	1 ounce	.10
B1507	Cylinder, complete, with cones, 14 in.	5½ pounds	7.20
	Cylinder, complete, with cones, 16 in.	6 pounds	7.80
	Cylinder, complete with cones, 18 in.	6½ pounds	8.40
1507	Cylinder, complete, for Plain Bearing 14 in.	5½ pounds	6.—
	Cylinder complete, for Plain Bearing 16 in.	5½ pounds	7.00
	Cylinder complete, for Plain Bearing, 18 in.	6½ pounds	7.60
1508	Left Hand Cylinder Head	1½ pounds	1.60
1509	Right Hand Cylinder Head	1½ pounds	1.60
1410	Stationary Knife, complete, 14 in.	2½ pounds	1.80
	Stationary Knife, complete, 16 in.	2½ pounds	2.00
	Stationary Knife, complete, 18 in.	3½ pounds	2.20
1411	Steel Stationary Blade, 14 in.	8 ounces	.80
	Steel Stationary Blade, 16 in.	9 ounces	.90
	Steel Stationary Blade, 18 in.	10 ounces	1.00
1412	Shaft for Frame, 14 in.	1½ pound	.70
	Shaft for Frame, 16 in.	1½ pound	.80
	Shaft for Frame, 18 in.	1½ pound	.90
1413	Wood Roller, 14 in.	1 pound	.90
	Wood Roller, 16 in.	1½ pound	1.00
	Wood Roller, 18 in.	1½ pound	1.10
1414	Left Hand Roller Bracket	7 ounces	.30
1415	Right Hand Roller Bracket	7 ounces	.30
1416	Handle Braces, each, 14 in.	14 ounces	.60
	Handle Braces, each 16 in.	1 pound	.70
	Handle Braces, each, 18 in.	1½ pound	.80
1417	Wood Handle	2½ pounds	1.00
1418	Wrench	4 ounces	.20
1419	Set Screws for Adjusting Dead Knife, ⅜ x 1½	1 ounce	.10
1420	Washer for Dead Knife Bolt, ½	1 ounce	.05
1421	Washer for Wheel	1 ounce	.05
B1522	Left Hand Cone	4 ounces	.80
B1523	Right Hand Cone	4 ounces	.80
1424	Bolt for Wheel Bearing, ½ x 2½	2 ounces	.10
1425	Bolt for Roller Bracket and Dead Knife, ½ x 1½	1 ounce	.05
1426	Bolt for Handle ½ x 2½	2 ounces	.10
1527	Cylinder Knives each, 14 in.	11 ounces	1.40
	Cylinder Knives, each, 16 in.	12 ounces	1.60
	Cylinder Knives, each, 18 in.	14 ounces	1.80
1428	Hexagon Nut on Shaft	1 ounce	.10
1429	Roller Pin	2 ounces	.15
1430	Rivets for Cylinder Knives, ⅜ x ½	1 ounce	.05
1431	Rivets for Dead Knife Blade, ⅜ x ½	1 ounce	.05
1532	Cylinder Rings	5 ounces	.60
B1433	Eccentric Screws for Adjusting Cone, ⅜ x ⅞	1 ounce	.25
B1434	Set Screw for Cone, ⅜ x ⅞	1 ounce	.10
B1435	Ball Cup, without Balls	2 ounces	.60
B1436	Retainer, with Balls	2 ounces	.60

LAWN MOWER PARTS

ORCHID

Prices on Request

10-INCH OPEN WHEEL, BALL BEARING, 4 KNIVES



14, 16 and 18 Inches

INSTRUCTIONS FOR ORDERING EXTRA PARTS

First.—Give **Number** with description of Parts. **Second.**—Always give **Width of Cut** and **Name** of Machine.
Third.—If you have no open account with us, cash must accompany the order, including mailing charges, if parts can be mailed.

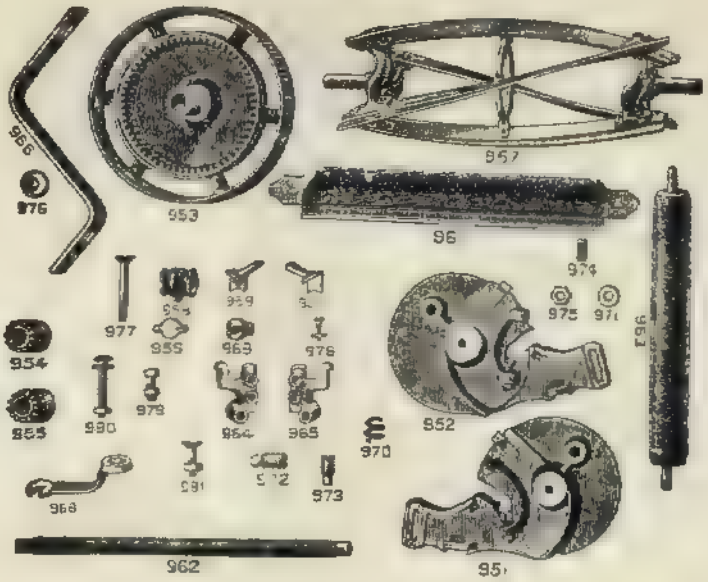
No.	Article	Weight	Each
OB1501	Left Hand Side Plate, with Ball Cup	3½ pounds	$3 00
OB1502	Right Hand Side Plate, with Ball Cup	3½ pounds	3 00
OB1503	Driving Wheel, both alike, 10 in. diameter, each,	6½ pounds	2.50
O1404	Left Hand Pinion, ½, 13 Cogs	4 ounces	.50
O1405	Right Hand Pinion, ½, 13 Cogs	4 ounces	50
1406	Pawl, both alike, each	1 ounce	10
B1507	Cylinder complete, with cones, 14 in	5½ pounds	7 20
	Cylinder complete, with cones, 16 in	6 pounds	7 80
	Cylinder complete, with cones, 18 in	6½ pounds	8 40
1508	Left Hand Cylinder Head	1½ pound	1 60
1509	Right Hand Cylinder Head	1½ pound	1 60
1410	Stationary Knife, complete, 14 in.	2½ pounds	1 80
	Stationary Knife, complete, 16 in.	2½ pounds	2 00
	Stationary Knife, complete, 18 in.	3½ pounds	2.20
1411	Steel Stationary Blade, 14 in.	8 ounces	.80
	Steel Stationary Blade, 16 in.	9 ounces	90
	Steel Stationary Blade, 18 in.	10 ounces	1 00
1412	Shaft for Frame, 14 in	1½ pound	70
	Shaft for Frame, 16 in.	1½ pound	.80
	Shaft for Frame, 18 in.	1½ pound	.90
1413	Wood Roller, 14 in	1 pound	90
	Wood Roller, 16 in	1½ pound	1 00
	Wood Roller, 18 in.	1½ pound	1 10
1414	Left Hand Roller Bracket	7 ounces	.30
1415	Right Hand Roller Bracket	7 ounces	30
1416	Handle Braces, each, 14 in	14 ounces	.60
	Handle Braces, each, 16 in.	1 pound	70
1416	Handle Braces, each, 18 in	1½ pound	$ 80
1417	Wood Handle	2½ pounds	1 00
1418	Wrench	4 ounces	20
1419	Set Screws for Adjusting Dead Knife, ⅜ x 1½	1 ounce	10
1420	Washer for Dead Knife Bolt, ½	1 ounce	05
1421	Washer for Wheel	1 ounce	05
B1522	Left Hand Cone	4 ounces	80
B1523	Right Hand Cone	4 ounces	80
1424	Bolt for Wheel Bearing, ½ x 2½	2 ounces	10
1425	Bolt for Roller Bracket and Dead Knife, ½ x 1½	1 ounce	05
1426	Bolt for Handle, ½ x 2½	2 ounces	10
1527	Cylinder Knives, each, 14 in	11 ounces	1 40
	Cylinder Knives, each, 16 in.	12 ounces	1 60
	Cylinder Knives, each, 18 in.	14 ounces	1 80
1428	Hexagon Nut on Shaft	1 ounce	10
1429	Roller Pin	2 ounces	15
1430	Rivets for Cylinder Knives, ⅛ x ⅜	1 ounce	05
1431	Rivets for Dead Knife Blade, ⅛ x ⅜	1 ounce	.05
1532	Cylinder Rings	5 ounces	60
B1433	Eccentric Screws for Adjusting Cone, ⅜ x ⅝	1 ounce	.10
B1434	Set Screw for Cone, ⅛ x ⅛	1 ounce	.10
B1435	Ball Cup, without Balls	2 ounces	60
B1436	Retainer, with Balls	2 ounces	60
OX	Shield for Cap for Pinion	4 ounces	20
O1438	Machine Screw to Fasten Shield	1 ounce	.05

LAWN MOWER PARTS

NEW DEPARTURE HIGH WHEEL

Prices on Request

FOUR KNIVES



Sizes, 15, 17 and 19 Inches

Instructions for Ordering Extra Parts

First.—Give *Number* with description of Parts. *Second.*—Always give *Width of Cut* and *Name of Machine*
Third.—If you have no open account with us, cash must accompany the order, including mailing charges, if parts can be mailed

No.	Article	Weight	Each
951	Left Hand Side Plate	4½ pounds	$2.50
952	Right Hand Side Plate	4½ pounds	2.50
953	Driving Wheel, both alike	5½ pounds	2.00
954	Left Hand Pinion, ⅜ Hole, 13 Cogs	4 ounces	.50
955	Right Hand Pinion, ⅜ Hole, 13 Cogs	4 ounces	.50
956	Pawl	1 ounce	.10
957	Cylinder, complete, 15 in	6½ pounds	9.00
	Cylinder, complete, 17 in	7½ pounds	10.00
	Cylinder, complete, 19 in	7¾ pounds	11.00
958	Cylinder Journal	5 ounces	.40
959	Left Hand Cap to cover Cylinder Opening	2 ounces	.20
960	Right Hand Cap to cover Cylinder Opening	2 ounces	.20
961	Stationary Knife, complete, 15 in	4 pounds	2.40
	Stationary Knife, complete, 17 in	4½ pounds	2.60
	Stationary Knife, complete, 19 in.	4¾ pounds	2.80
962	Shaft for Frame, 15 in	1¾ pound	.90
	Shaft for Frame, 17 in	2 pounds	1.00
	Shaft for Frame, 19 in	2¼ pounds	1.10
963	Wood Roller, 15 in	1¼ pound	.90
	Wood Roller, 17 in	1½ pound	1.00
	Wood Roller, 19 in	1¾ pound	1.10
964	Left Hand Roller Bracket	7 ounces	.30
965	Right Hand Roller Bracket	7 ounces	.30
966	Handle Braces, each, 15 in	1 pound	.60
	Handle Braces, each, 17 in.	1¼ pound	.70
	Handle Braces, each, 19 in.	1½ pound	.80

No.	Article	Weight	Each
967	Wood Handle	2½ pounds	$1.00
968	Wrench	4 ounces	.20
969	Spiral Spring Plug	1 ounce	.20
970	Spiral Spring	1 ounce	.10
971	Washer top of Spring, ½	1 ounce	.05
972	Lower Set Screws for Cylinder Journal, ⅞ x 1¼	1 ounce	.20
973	Upper Set Screws for Cylinder Journal, ⅞ x 1⅞	1 ounce	.20
974	Set Screw for Springing up Dead Knife, ⅞ x 1	1 ounce	.10
975	Jamb Nut for Lower Set Screws	1 ounce	.10
976	Cast Washer for Wheel Bearing	1 ounce	.05
977	Screw for Wheel Bearing, ⅞ x 3½	2 ounces	.20
978	Bolt for Cap, ⅞ x ⅝	1 ounce	.05
979	Bolt for Dead Knife End, ⅞ x 1¼	1 ounce	.10
980	Bolt for Wood Handle, ½ x 2½	1 ounce	.10
981	Bolt for Roller Bracket, ½ x 1¼	1 ounce	.05
982	Left Hand Cylinder Head	1¾ pound	1.80
983	Right Hand Cylinder Head	1¾ pound	1.80
984	Cylinder Knife each, 15 in	11 ounces	1.60
	Cylinder Knife, each, 17 in	13 ounces	1.80
	Cylinder Knife, each, 19 in	14 ounces	2.00
985	Cylinder Rings	6 ounces	.60
986	Roller Pins	2 ounces	.15
987	Rivets for Cylinder Knife, ⅛ x ⅜	1 ounce	.05
988	Rivets for Dead Knife Blade, ⅛ x ⅜	1 ounce	.05
989	Steel Stationary Knife, 15 in	12 ounces	1.50
	Steel Stationary Knife, 17 in	14 ounces	1.70
	Steel Stationary Blade, 19 in	1 pound	1.90

UNITED STATES FLAGS

Made of Genuine Wool Bunting as called for by United States Government specifications. They are Sewed and Finished in a First Class manner Throughout and we guarantee the workmanship to be unexcelled. The small sizes have Canvas Headings and Brass Grommets, but the Larger Sizes from 15x10 feet and Upward, have Strong Canvas Headings with Manila Ropes Inserted. A Full Complement of Stars on each Union, except on the 3 and 4-foot sizes, which have but 13 real stars.

Size	Each	Size	Each	Size	Each
2 x 3	$ 2 72	9x12	$21 60	12½x25	$ 65 20
2½x 4	3 60	8x15	26 00	15 x24	75 40
3 x 5	4 60	8x16	28 20	15 x25	78 00
3 x 6	5 40	9x14	27 60	15 x30	93 60
4 x 6	6 40	9x15	29 40	18 x27	96 00
4 x 7	7 40	9x16	31 20	20 x30	122 40
4 x 8	8 32	9x18	34 80	20 x35	145 40
5 x 8	10 00	10x15	32 80	20 x40	161 20
5 x 9	11 20	10x16	34 80	24 x35	170 00
5 x10	12 20	10x18	38 80	24 x40	192 00
6 x 9	12 80	10x20	42 80	25 x40	204 00
6 x10	14 00	11x22	51 00	25 x45	224 00
6 x12	17 20	12x18	45 32	25 x50	240 00
7 x13	17 40	12x20	50 20	30 x50	288 00
7 x12	19 40	12x22	55 00	40 x80	500 00
7 x14	22 20	12x24	60 60	50 x75	800.00

Kelley-How-Thomson Co. of Duluth
ACCESSORIES FOR FORD AUTOMOBILES

STEWART SPEEDOMETER AND INSTRUMENT BOARD

Takes Vibration out of Steering Wheel, Improves Appearance. No Bolts, No Screws, No Brackets. Instantaneous Installation. Can be Installed in One Minute.

Every Ford owner wants one of these handsome, new Instrument Boards on his car. This has proven one of the fastest selling accessories on the market.

Anyone can install it in a minute's time. Merely exert a downward pull on the steering column, slip the board into place, and it is there to stay. The lower edge rests tight against the steering column—eliminates every bit of vibration from the steering wheel. Makes driving a pleasure—no more tired arms, no matter how long you drive.

You can install on the Stewart Instrument Board a clock, headlight control, priming lever, starting control, and any other accessories you desire.

The Stewart Instrument Board is made of wood, with black satin, egg-shell finish. It is an exclusive Stewart feature, and the many patented features can't be imitated.

Each

No. 160B—Stewart Instrument Board, furnished Complete with Speedometer and Driving Equipment ready to install.....$15 25

STEWART SPEEDOMETER AND INSTRUMENT BOARD

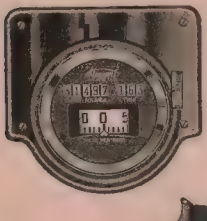
For Ford Sedan and Coupelet Models

A Handsome Instrument which will appeal to every owner of a Ford Sedan and Coupelet Car.

Instrument can be easily installed without altering the car in any manner. Simply fasten the plate to the dash by means of the four wood screws furnished. No cutting is necessary.

Each

No. 160C—60 mile capacity rotating speed size; Stewart Odometer, consisting of 100,000-mile Season Register and 100-mile Trip Register. The trip register can be easily reset to any mile or tenth of a mile without disturbing the season register. Speedometer has Black Dial Face and Black Enamel Bezel Ring. Complete with Instrument Board and Driving Equipment.....$16.25



STEWART SPEEDOMETERS

Magnetic Type. Special for 1919-20 Ford Cars.

This Model is Especially Designed for use on the Instrument Board provided in the Newer Ford Cars.

It is Built on the Magnetic Principle. None but a Stewart can be so constructed. It is the same type of instrument accepted by automotive engineers as the most accurate and trustworthy. Installation is remarkably easy. No round hole necessary. Simply cut out section of board.

Each

No. 160A—3-in. Dial Face, 60-mile capacity Rotating Speed Dial, 100,000-mile Season Odometer and 100-mile Trip Register, which resets to any tenth of a mile. Has a Tungsten Steel Magnet. Jewelled pivots. Flange matches starter switch plate. Furnished in Black Enamel. Complete with all Fittings and Driving Equipment for Ford Cars with built-in instrument board

$15 00

J. M. SPEEDOMETER AND INSTRUMENT BOARD

Furnished only with the New Instrument Board Suitable for Ford Cars. The Board is made of Strong Veneered Wood. Finished in Dull Black to Match Ford Bodies, and a Special Feature is the Adjustable Metal End Brackets provided to compensate for the variations in Ford Bodies. The Instrument Board also permits of Easily Mounting other Instruments, such as Clocks, Starter Switches, Carburetor Controls etc.

Each

No. 3009—Complete Instrument Board, Speedometer and Fittings $12 00
No. 3011—**With Swivel Joint** on Speedometer; otherwise same as above 12 00

One in a Box; Weight, 15½ Lbs. Each

ACCESSORIES FOR FORD AUTOMOBILES

RAYFIELD CARBURETORS
Ford Special

The Rayfield Carburetor for Ford Cars is a Complete Outfit as shown in the illustration, consisting of a Special Rayfield Carburetor adapted to the Ford Motor, a Special Hot Air Attachment and Dash Adjustment.

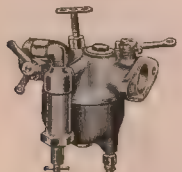
The Carburetor is packed complete in a box, ready for installation, which can be done quickly by any ordinary mechanic as the Carburetor is interchangeable with that which comes standard with every Ford.

All Rayfield Carburetors are guaranteed against ordinary defects, such as poor workmanship or faulty material, for a period of one year from date of purchase. All Carburetors found defective will be repaired and refinished free of charge on receipt prepaid at Factory.

Regardless of the type of Carburetor now in use, the Rayfield on a Ford will give the following results: Easier Starting, Quicker Pick-up, More Speed; A Lower Throttled Motor, Greater Power on the Hills, a Smoother, More Flexible Motor; and at the same time 20 per cent to 50 per cent more miles per gallon. Each

No. FS—Complete with all Fittings.....$21 00

Weight Each about 20 Lbs.



KINGSTON CARBURETORS

This is a New Carburetor (Model L2S), specially designed by Kingston for Ford users. It carries many exceptional features, including a Gasoline Strainer, and Integral Part of the Device. In these days of constantly lowering fuel values the need of strainers is apparent, and the addition will be appreciated by all Ford users. Like all of the Kingston line, this is a guaranteed product.

Each

Model L2S—Kingston Carburetors $7 50

STROMBERG CARBURETORS
Ford Special

This is the best of all instruments ever produced for the Ford car. It is sent to you just as is shown in the picture—complete—ready for installation. One screw puts on the hot-air housing, no change is necessary in the gasoline and the carburetor itself goes right on to the old manifold.

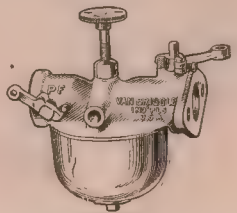
The adjustments are extremely simple and anyone can make them—high speed and idling. The carburetor is of the plain tube type and is equipped with what is known as an economizer. It controls the needle valve which regulates the gasoline flow so that at all times the mixture is cut down to minimum.

In bringing out this carburetor, one of the primary requirements was that it be made to start easier than any other one on the market. In order to obtain easy starting, it is necessary to be able to shut off all air inlets to the carburetor. By doing so the high vacuum which is in the manifold is transferred to the carburetor and this vacuum draws the gasoline off of the nozzle holes, breaking it up in a very fine spray and carrying it direct to the cylinders. Without this high vacuum in the carburetor, the gasoline enters the manifold in heavy drops but can not reach the cylinders. This is what causes a flooded carburetor and makes starting practically impossible.

In order to further facilitate starting when the weather is extremely cold, this Stromberg Carburetor is equipped with a priming plunger, operated by a wire running to the front of the radiator.

Each

Stromberg Ford Carburetor. $21.50

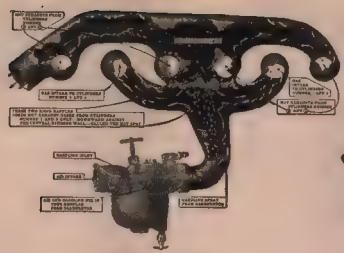


VAN BRIGGLE

As the Velocity of air through the Carburetor increases it Automatically decreases the consumption of Gasoline; This new principle of Carburetion used only in the Van Briggle Carburetors has been tested and approved by one of the Government's best Technical Engineers.

Each

No. P. F.—Van Briggle Carburetor $10.00



"THE PRINCIPLE IS RIGHT"

ANCO ON FORD ENGINE

ANCO "EVENHEAT" MANIFOLDS

The Anco "Evenheat" Manifold is a finely finished combined intake and exhaust manifold cast in one rigid piece and put on easily, with a wrench only, in twenty minutes, in the exact place of the regular Ford manifolds now on your engine. No other part of your car is changed in any way. No holes to drill. No cutting and fitting. Nothing to adjust. Nothing to wear out. The ANCO is trouble proof and is guaranteed to outlast your car.

THE PRINCIPLE IS RIGHT

The Illustration—in which the front of the ANCO is broken away to show the inner construction — tells its own simple story. The hot dividing wall, or "hot spot," which completely separates the exhaust and intake channels, is located centrally directly above the vertical section of the intake. Gasoline spray from the carburetor strikes this "hot spot" squarely and is transformed instantly into a fog of perfect gas—swept uniformly into all the cylinders along the easy bends of the ANCO.

The cooling effect of the intake air and vapor, always in direct proportion to the heat of the exhaust, keeps this "hot spot" constantly at the right temperature.

Note carefully how each half of the "hot spot" and therefore each division of the intake—right and left—gets exactly the same amount of heat.

This vital "evenheat" feature of the ANCO—not licensed nor found in any other manifold for Fords—loads each cylinder uniformly for every shot with a quick-firing, clean-burning, full-powered gas. The ANCO transforms every particle of fuel into a perfect "high-tension" explosive. Power flows smoothly and gasoline gives up its last inch of mileage.

NO ADJUSTMENTS

Gas savers requiring adjustment by the driver while operating the car may be sold safely perhaps to a few expert Ford mechanics but even they soon tire of watching the adjustment on such devices and discard them—as you have seen. The average Ford driver, who as you know will not attempt even the simple adjustment of his carburetor, and who is unable to notice anything less than a very pronounced irregularity in engine performance, certainly cannot be expected to keep out of trouble with gas savers requiring adjustment.

The Anco Evenheat Manifold, like the even heat "Hot Spot," manifolds on the Liberty Motor, the new war truck motors and on the engines of Studebaker, Chalmers, Hupmobile, Cole and other good cars, has no moving parts—nothing to adjust—nothing to watch—nothing to cause confusion or disappointment to any Ford driver. The ANCO makes no demands on the time or attention of the user and therefore does not tire him and annoy him to the point of discarding it. **The ANCO stays sold.**

	Each
Anco "Evenheat" Manifold—Shipping Weight 13 Lbs.	$9 75

One in a Paper Carton with Full Instructions, and Seven Copper Gaskets, One Dozen in a Case

Note.—If there ever occurs a case when the ANCO upon such a test (See guarantee enclosed in each Carton) may appear not to meet this guarantee, the car disorder reason ble will be found for you and at once corrected, or the Anderson Company, South Bend, Indiana, manufacturers, will refund promptly and without question the full purchase price in cash on return of the manifold, charges collect, at any time within Thirty days from date of purchase.

Kelley-How-Thomson Co. of Duluth
ACCESSORIES FOR FORD AUTOMOBILES.

RADIATORS
For 1909 to 1916 Fords
(Equipped with Peerless Core)

Radiator Shell or Casing Finished with Two Heavy Coats of Black Japan; Honeycomb Brass Core in Gray. Heavy Tinned Malleable Iron Water Connection; All Parts coming into contact with water are of Brass; Heavy Wrought Steel Side Brackets.

	Each
No. 10—Peerless Radiator.	$24 00

Weight Boxed, 40 Lbs.

RADIATORS
For 1917-1918 Ford Cars
(Equipped with Peerless Core)

Radiator Shell or Casing Finished with Two Heavy Coats of Black Japan; Honeycomb Brass Core in Gray. Heavy Tinned Malleable Iron Water Connector; All Parts coming into contact with water are of Brass; Heavy Wrought Steel Side Brackets.
Filler Neck 2 in. Diameter.

	Each
No. 11—Peerless Radiator.	$24.00

Weight Boxed, 50 Lbs.

COMBINATION RADIATOR HOOD AND DUST SHIELD
To Convert 1915 and 1916 Ford Cars Into Latest Model
(Equipped with Peerless Core)

It Gives the Car a Streamline effect, which is so much desired on automobiles. To obtain this appearance the hood is tapered so as to insure the proper fit.

Finished with Two Heavy Coats of Black Enamel; Honeycomb Brass Core in Gray; Heavy Tinned Malleable Iron Water Connector. All Parts coming into contact with water are of Brass.

	Each
No. 12—Comb, Radiator, Hood and Shield	$35 00

Shipping Weight about 75 Lbs.

PERFEX RADIATORS

Leak Proof—Patented, locked, banded connections of Core, a sealing that is uniform and far superior to the old usual single or lapped soldered joints, resulting in PERFEX cores having the unique feature of JOINTS CONSTITUTING THE STRONGEST PART OF THE RADIATOR instead of the weakest as in other types. Will actually stand freezing without injury.

Channel Plates—Metal of special alloy, the highest grade material obtainable for its purpose.

Efficiency—100%, as every cubic inch in positive water and air circulation, with no dead water pockets and no FINS.

Cooling—25% to 50% greater than other types of cellular or tubular radiators.

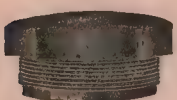
Water—20% to 50% greater than other radiators.

Water Channels—Two to three times larger than in other cellular radiators and volume of water correspondingly greater. Free and positive circulation in each channel, thus clogging is reduced to a minimum.

Perfex—Is a real Honeycomb, Direct Cellular cooling radiator.

Perfex Radiators—Are subjected to a final test of 20 lbs. of steam pressure, whereas the usual test for other types is not to exceed 8 lbs. of air pressure.

	Each
No. 20—Perfex Radiator for 1909 to 1916 Fords; Weight about 46 Lbs.... ..	$30 00
No. 22—Perfex Radiator for 1917, 1920 Fords; Weight about 50 Lbs.....	40 00

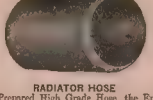


RADIATOR CAPS

Cast of Heavy Brass, Covered with Black Hard Rubber, will not Heat as does Regular Cap and is Much Easier to Remove.

	Each
No. 143B—Black Hard Rubber Finish.....	$0.36

Weight Each, about ¼ Lb.



RADIATOR HOSE

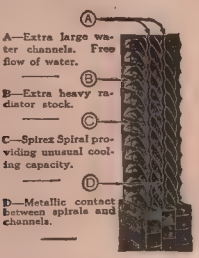
A Specially Prepared High Grade Hose, the Ends of which are Specially Finished. No Fabric Showing; Nothing to Unravel or Deteriorate.

	Per Dozen
No. 1—1 in. to 1¼ in. in Diameter, 2¾ in. Long; for Lower Connection; Weight about 3 Oz. ..	$1 80
No. 2—2 in. in Diameter; 3¼ in. Long; for Upper Connection; Weight about 4 Oz...	2 00

ACCESSORIES FOR FORD AUTOMOBILES

PEERLESS

For Late Models



SPIREX RADIATORS

A Radiator with 42 per cent greater Cooling Capacity than the regular equipment and easily 25 per cent more Capacity than any other Radiator designed for use on Ford cars. The additional cooling capacity is due to the peculiar construction of the Spirex Core. This is an exclusive patented Spirex feature. Because of the spiral construction of the air cells, producing greater cooling efficiency, Spirex cores need not be as thick and as heavy as other Radiators. The Spirex Core is 1¼ in. Thick, it has a frontal area of 300 square inches as compared with 270 square inches found in most other Radiators for Fords. The filler cup is nickel plated brass, not steel; the stay rod fastening is a casting with twelve threads; The water channels and tanks are made of brass; Spirex Radiators are not damaged by freezing. Every Radiator is guaranteed; Packed in individual boxes; Weight, 1916 type, 36 Lbs., 1917 type, 40 Lbs.

	Each
No. 1—Spirex Special Radiator, 1909-1916 Cars	$30 00
No. 2—Spirex Special Radiator, 1917-1920 Cars	30 00

TWO BLADED FAN

The Juelson Two-Bladed Fan opens up a vast field for new uses: This Fan is so constructed that the air currents are directed and driven over all of the surfaces of all the cylinders; A shaft of swiftly moving cool air just wide enough to bathe completely the engine, keeping the motor and water cool under all climate conditions; The Juelson Fan is well built, and will last indefinitely without repair or adjustment of any kind, a cone shaped hub protects the bushings against dirt, the blades and bushings are instantly detachable; It is so well balanced that very little power is required to turn the fan; Vibration and fan noises are entirely eliminated; Has 50 per cent more cooling efficiency as proven by repeated tests in nationally known laboratories.

	Each
Juelson Fan—For Ford Cars	$1.20

TEST PLUGS

These Test Plugs may also be purchased separately, as follows:

	Each
R-1—Radiator Cap Test Plug	$30 0
R-2—Inlet Test Plug	2 00
R-3—Outlet Test Plug	2 00
Set of 3 Rubbers for R-2 and R-3	50

ACCESSORIES FOR FORD AUTOMOBILES

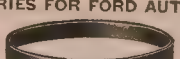
FAN BELTS

Endless; Oak Tanned Leather

Oak Tanned Leather; Securely Cemented, Waterproofed Lap; Two Rows of Stitching Across Lap.

Width, 1¼ in.; Treated by a Special Process making it Water, Steam and Oil Proof.

	Each
No. 16—For Car up to 1916	$0.50
No. 17—For 1917 to 1920 Cars	.50



FAN BELTS

Detachable; Oak Tanned Leather

Oak Tanned Leather; Width, 1¼ in.; Will Not Shrink nor Stretch and is impervious to both water and oil.

Equipped with a Special Fastener which means that it can be put on or taken off the car in an instant so that replacements can be made without soiling the hands.

	Each
No. 16D—For Cars up to 1916	$0 75
No. 17D—For 1917 to 1920 Cars	75

VULCO-CORD FAN BELTS

Every Vulco-Cord Belt is oil-proof, heat-proof, non-stretch and built by a patented process to conform to the pulleys, so that there is equal tension on each of the ten plies.

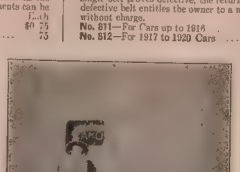
Each belt is positively guaranteed to outwear any other leather, webbing or fabric belt on the market, and under this guarantee if a single belt proves defective, the return of the defective belt entitles the owner to a new one without charge.

	Each
No. 811—For Cars up to 1916	$0 45
No. 812—For 1917 to 1920 Cars	50

FAN BELT RETAINERS

On some Ford cars the fan is out of alignment enough so that the Belt is off most of the time. This Retainer will Prevent this and the installation is only a question of a few minutes with a wrench.

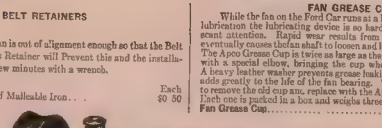
	Each
Fan Belt Retainers—Made of Malleable Iron	$0 50



FAN GREASE CUP

While the fan on the Ford Car runs at a high speed and needs frequent lubrication the lubricating device is so hard to get at that it really gets scant attention. Rapid wear results from lack of lubrication and this eventually causes the fan shaft to loosen and lets the fan strike the radiator. The Apco Grease Cup is twice as large as the one on the car and it is fitted with a special elbow, bringing the cup where it can be reached easily. A heavy leather washer prevents grease leaking and a turn every few days adds greatly to the life of the fan bearing. To apply it is only necessary to remove the old cup and replace with the Apco, a matter of five minutes. Each one is packed in a box and weighs three ounces.

	Each
Fan Grease Cup	$0.35



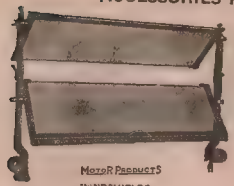
WATER CIRCULATING PUMPS

Make Powerful Fords

The one piece body casting insures perfect alignment of both bearings for all time. Its bearings are ample to take the wear of continuous running. Made to run with and last with motor; Centrifugal in principle, the only principle for continuous service. We guarantee to accomplish it. Machine made carefully put up throughout. Not merely an agitator but a high grade force pump. Permanent in every way. No set collars to loosen up. Nothing to get out of order, out of place, out of gear or out of line. Anybody who runs a Ford car or truck can install this pump with the aid of a small wrench, cut, substitute new belt supplied with each pump, fill oil cup with hard oil; Belt used is standard. Valve Cord No. 835, same as used on Buick and Dodge cars, readily renewable.

	Each
Perfection—Water Circulating Pumps	$10 00

Pumps packed in Individual Cardboard Cartons, each Complete with Belt and Cap Screws to Attach.



MOTOR PRODUCTS

WINDSHIELDS
Adjustable Type

For 1915, 1916, 1917, 1918 and 1919 Ford Cars

Adapted to all the Latest Models of Ford Cars that have Cowl Bodies and Straight, Non-Ventilating Shields as Regular Equipment.

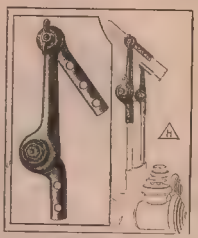
Furnished Complete with Brackets and Cross Bar assembled, this arrangement is an improvement and superior to others as the Cross Bar is fitted with a Rubber Filler Strip which comes in contact with the lower frame and makes the Shield Absolutely Weatherproof when closed. Another advantage is that the holes in the Brackets are Oblong, so that the Shield is Adjusted without the necessity of the Body, Radiator or Otherwise marring and short cuts and bad Jogs for Top Straps in Top position are provided. The Stanchions or Side Members of these Models are Extra Heavy Steel, which prevents breaking where inserted in the Brackets.

Each

No. Z17 Plate Glass, 30¾ in. Wide, 24 in. High $19.00

Shipping Weight about 50 Lbs.

Note: Can be furnished with Studs and Top Fasteners for One Man Top at an extra charge of $2.00.



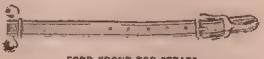
VENTILATING WINDSHIELD ATTACHMENT

Designed to replace the Hinges Originally Supplied on Ford Windshield, converting it into a Rain Vision and Ventilating Shield, providing safety and comfort in all kinds of weather. Easily and quickly applied by the use of a screw driver only. No holes to be bored or other changes necessary

Per Set

No. 1500—Ebony Enamel Finish $2.50

One Complete Set in a Carton, Weight 5 Lbs.



FORD FRONT TOP STRAPS

Web, Single Strap with Spud and Footman Loop; Adjustable Hook Buckle

Per Dozen Pairs

No. 117—Length 15 in.; Width ⅞ in. $4.32

TOP PROP NUTS

Per Dozen

No. 296—Prop Nuts $0.50

RUBBER MATS

High Grade Rubber, ¼ in. Thick, Exact Fit, Lays Evenly on Floor and has Openings Suitable for Models 1915, 1916, 1917 and 1918 Fords

Each

No. 53—Size 28x29½ in. $2.00

Weight Each about 2¾ Lbs.

HOOD FASTENERS

A neat and positive fastener; can be applied to any car. More convenient and satisfactory than a screw fastener

Each

No. A—Made of Steel; Black Finish; Weight each about 6 Oz. $0.60

FORD BUMPERS

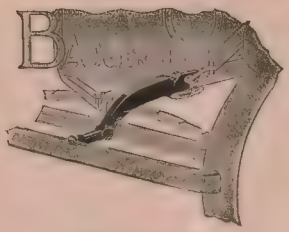
With Clamp-On Fittings Special for the Ford Car

Made of the Highest Quality Alloy Steel carefully Oil Tempered, the Springs overlap in the front and are held together with two retainers which permit ready adjustment for different width of Frame: 54 to 60 in. adjustment.

Can be attached, without drilling or altering the car in any way. The Brackets are extra long and are attached under the car out of sight, they insure the Bumper an Eelim inate vibration.

Each

No. 8 Front; Nickel Bar, Black Clips $12 00
No. 58—Rear; Nickel Bar, Black Clips 14 00

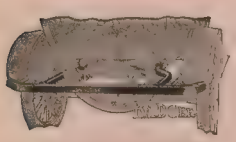


BADGER FORD FRONT BUMPER

This Bumper attaches very rigidly to the front of the Ford car, and owing to its frameike design gives the car a somewhat massive appearance. The radiator of the car may be seen without lifting the Bumper. Ample room for cranking is allowed. Brackets are attached by means of a hook bolt over the under bracket, and an eyebolt over the castellated nut on the underside of the car frame.

Each

No. 628N—1¾ in. Channel; Nickel Plated $9 00

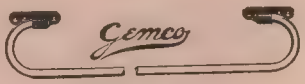


BADGER NEW FORD REAR BUMPER

This Bumper was designed especially for the new Ford cars which are being equipped with a rear tire carrier as standard equipment, but will also fit on all other models of the Ford. The brackets are very easily bolted over the rear cross channel frame member of the Ford. An offset in the brackets allows plenty of clearance for the rear tire carrier.

Each

No. 500N—1¾ in. Channel; Nickel Plated $10 00



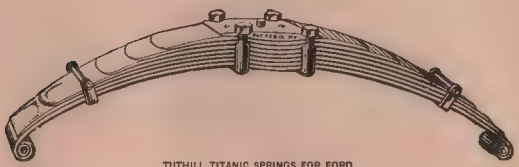
ROBE RAILS

Swinging Pattern for Ford Cars

1¼ in. Seamless Tube, 20 in. to 4 ft., can be swung out from body 4 in.

Each

No. 1190—All Black, Hard Rubber Finish..... $0 90



TUTHILL TITANIC SPRINGS FOR FORD

Guaranteed Forever Against Center Breakage

There is an insistent demand for high quality front springs for Ford Cars to replace the many thousands which break annually. The No. 102 Spring illustrated above is the famous Tuthill Titanic patented boltless spring which is guaranteed forever against center breakage. The price is low enough to be competitive with the old-fashioned center bolt spring and the motorist is glad to pay for the extra protection. Titanics mean more pep and goodwill to the dealer.

	Each
No. 102—Titanic Standard Equipment, 7 plates	$6 00
No. 111—Titanic Heavy Duty, 9 plates	7 50

FRONT SPRINGS FOR FORD

No. 100

Made of an excellent quality of High Carbon Steel and representing the very best possible value of any unwarranteed front spring for Ford Car

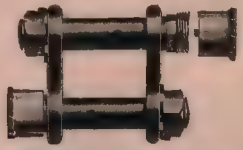
	Each
No. 100—Standard, 7 plates	$4.00

REAR SPRINGS FOR FORD

No. 105

No rear spring made for Ford Cars can give better service than th quality product made by Tuthill Spring Company, America's most successful spring builders.

	Each
No. 105—Standard Equipment, 8 plates	$12 00
No. 112—Heavy Duty, 10 plates	18 00

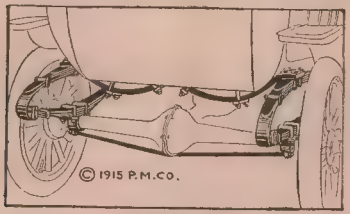


SPRING SHACKLE AND GREASE CUP INTEGRAL

Steel Material Finish, Brass Caps; Will Thoroughly Lubricate Spring Eye Bushings, Preventing Wear and Eliminating Squeaking

	Each
No. 144F—For Front Spring; Size 3¼x2¼ 5/16 in.; Weight ¾ Lb.	$1 6
No. 144R—For Rear Spring; Size 4¾x2⅝ 5/8 in.; Weight 1 Lb.	1 6

Kelley-How-Thomson Co. of Duluth
ACCESSORIES FOR FORD AUTOMOBILES



BETTER-FORD SPRINGS

Will eliminate jars and jolts, giving the car a smooth, easy motion when traveling over rough roads. Indu gres ar rad lity, increasing the power of control and preventing many accidents common to light cars. Lengthen the life of the car by overcoming destructive vibration which racks the engine, transmission, and other vital parts.

The Steel Truss Rods serve to materially strengthen the rear axle and add another big car feature without extra expense.

No Special Tools Necessary

Remove Old Springs. Place Axle Bearings Over Joint on End of Axle. Line up with Front Axle and Tighten securely. When in proper position, axle bearings should strike line about ¾ inch above front axle.

Place Cross Bar in position under body. Fasten with the two old clips and the two additional furnished with spring. Tighten Bolt Springs in position on bearings, making sure that they set parallel.

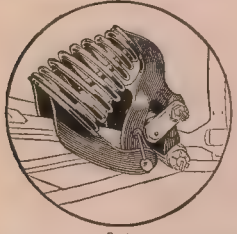
Lower body until ends of cross bar rest in place on top of springs. Fasten with clip.

Note: No shackles or bolts are furnished with springs. Use the old ones.

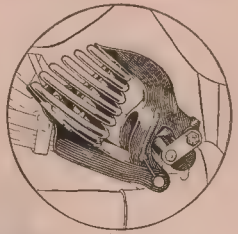
Per Set

Better-Ford Springs—They make the Ford a Better Ford $20 00

Note: When ordering, specify if wanted for Ford Runabout or Touring Car



Front



Rear

MAKES EVERY ROAD A BOULEVARD

The pivoting of the Van Briggle Shock Absorber is from the cycle, of the spring. When the jolt comes down the car spring straightens out, causing the fulcrum in the shock absorber to compress the shock absorber spring. The radius of the Van Briggle Shock Absorber remains the same at all times; there is no change in the axis of the shock absorber for the reason that the base is pivoted at the same point as the upper part of the shock absorber. The rebound is caught by the reverse movement of the shock absorber. The spring base of shock absorbers rests freely on top of the car spring which allows free action of spring leaves and does not cramp or bind spring.

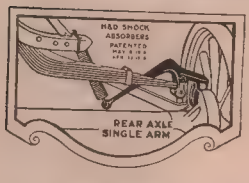
The Van Briggle Shock Absorber protects and cushions the four corners of your car against rebounds, side sways, bumps, jolts and jars. This protection lessens the strain and wrench of your car and increases mileage on tires, and saves in the general upkeep.

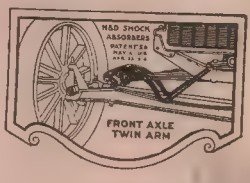
The Van Briggle Shock Absorber is installed without removing any wheel, tie rods or perch hangers. No drilling or tapping necessary. No standard parts removed from car. Van Briggle Shock Absorbers are assembled at the factory. Installation simple and easy.

Per Set of Four

Van Briggle Shock Absorber $15 00

ACCESSORIES FOR FORD AUTOMOILES





SHOCK ABSORBERS

A Simple and Efficient Shock Absorber of the Lever-Fulcrum or Cam-lever Type, sturdy construction and durable, with nothing to get out of order. Eliminates all the side sway and makes the Car easily handled in Rough Mud and Ice Roads. Easily Applied. No Fittings Necessary. Material and Workmanship Fully Guaranteed.

Lever Arms of Finest Grade Close Grained Malleable Iron, Heat Treated and Annealed. Rear Hangers are very best Drop-forged Steel. All Bearings in Lever Arms are Bronze Bushed and can be easily replaced when worn. Highest Quality, Heat-treated, Oil-tempered, Vanadium Steel Springs, will not break or lose their Elasticity. Extra Heavy Steel Hooks for Attaching Springs to Frame; BAKED BLACK ENAMELLED FINISH.

	Per Set of Four
H. & D. Single Arm Shock Absorbers Weight per Set about 20 Lbs.	$10 00

Extra Parts for H. & D. Single Arm Shock Absorbers

	Each
No. 11—Left Front Casting	$2 00
No. 12 Right Front Casting	2 00
No. 13 Right Rear Casting	2 00
No. 14 Left Rear Casting	2 00
No. 15 Casting (perch)	80
No. 4 Touring Car Spring	60
No. 5 Roadster Spring (rear)	60
No. 1—Front Hook	50
No. 2 Rear Hook	50
No. 51—3x⅝ Front Lock Bolt, with Nut	40
No. 52—2¼x⅝ Rear Lock Bolt, with Nut	40
No. 19 Special Hexagon Bolt	30
One Half Set, Front or Rear	3 00

SHOCK ABSORBERS

The H. & D. Twin Arm Shock Absorbers are designed and Built to put comfort into the Ford Car. They are the most sensitive and have the most efficient shock absorbing powers. They eliminate side sway and make steering easy at high or low speeds. By their use a hard rear spring they absolutely prevent the breakage of the main springs and eliminate the body rattle and lever steering [illegible] are [illegible] lbs, nor do they detract from the appearance of the Ford.

Arms are of Specially Annealed Malleable Iron; the Springs are of the Best Spring Steel Wire, Double Dipped Black Enameled Finish.

	Per Set of Four
H. & D. Twin-Arm Shock Absorbers Weight per Set about 23 Lbs.	$10 00

Extra Parts for Twin-Arm Shock Absorbers

	Each
No. 31—Front Casting	$2 00
No. 32 Rear Casting	2 00
No. 18—Casting (perch)	80
No. 7 Taxicab Spring, rear	60
No. 8½ Touring Spring	60
No. 10 Roadster Spring (rear)	60
No. 23 Front Spring Clip	60
No. 24—Hook (2)	60
No. 51—3x⅝ Front Lock Bolt, with Nut	40
No. 52 3½x⅝ Rear Lock Bolt, with Nut	40
No. 19—Special Hexagon Bolt	30
One Half Set, Front or Rear	$8 00

Kelley-How-Thomson Co. of Duluth

ACCESSORIES FOR FORD AUTOMOBILES

HALLADAY SHOCK ABSORBERS

A Shock Absorber that Directly Suspends the Car on Sensitive Springs of sufficient capacity to Absorb the Vibration and Prevent Rebound. No Light Breakable Parts or Parts to be Lost. No Frictional Bearings to Interfere with the Spring Action.

The Springs in the HALLADAY Shock Absorbers are larger than any others ever used for similar purposes and are of ample capacity to absorb all the jolts and jars, thereby removing the cause of rebound.

Put in plain figures, if the axle of a Ford car be raised or the body suddenly dropped three inches, the most of such movement that any other shock absorber will take up is less than one inch with a deflection of the leaf spring of two inches, a recoil of practically four inches resulting therefrom.

Under similar conditions, the HALLADAY will absorb over 2½ inches of the movement, leaving only a small amount of spring displacement from which the recoil is too slight to be noticed.

When the cause does not exist, there can be no result.

If the leaf spring is not noticeably displaced, there can be no recoil.

The HALLADAY removes the cause, therefore the rebound never happens.

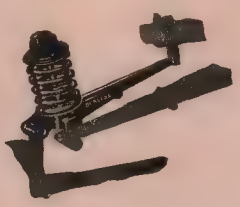
Front

Rear

Per Set of Four

Halladay Shock Absorbers for Ford Cars..... $15.00

Front



Rear

BURGESS REBOUND CHECK AND SHOCK ABSORBER

Will Increase Your Car Mileage 20 to 40 Per Cent. Will Decrease Your Repair Bills and Prolong the Life of Your Car and Every Mile You Ride will be Comfortable

This Quickly Applied, Simple Device, Controls the Rebound and at the same time Absorbs Vibration and Increases the Range of your car. Makes a Ford the Easiest Riding Car. You can Ride Cobbles or Rough Country Roads with Absolute Comfort. The Wheels Stay on the Road. Makes the Car Easier to Steer, and Safer. Increases the Range of your Springs and at the same time controls them.

The Action of this wonderful device is so smooth that it stops the vibration of your steering wheel, mud guards and lamps as if they had been specially braced and in this manner eliminates noise and rattling.

Burgess Rebound Check and Shock Absorbers ride the car and passengers directly on four coil springs, which are so mounted that no guides or other retarding mechanism is required. These springs will absorb thirty periodic vibrations per second, more than twice as many as any other type of spring will absorb.

The arms on which these springs are mounted are arranged to control the recoil of the leaf spring by shifting the load at the moment of recoil from the top of the spring to the center, or the rebound point on. This positively eliminates all rebound. The manner of attaching these arms does not bind the leaves of the car springs, or interfere with the working of any other part of the Ford car, but greatly increases the range of the leaf springs, which, in combination with the coil springs, produces the wonderfully easy riding.

Vibration in the engine of any car. The quick acting conical springs of the Burgess Rebound Check and Shock Absorber smother the jolts before they can reach the vital parts of the motor and body. It is a fact which you can prove to yourself that a Ford equipped with this device does not vibrate when the motor is running idle.

The manufacturers of this device do not deem it a possible to entirely eliminate side sway. If this were the best practice, the engineers who build the Ford would eliminate it. The Burgess Rebound Check and Shock Absorber is designed to reproduce the exact action of the shackles on the Ford. This eliminates all objectionable features often found in shock absorbers for Ford cars. There is no effect on the steering or increase in side sway.

Each set is sold with the guarantee of perfection in material and workmanship and the fulfillment in actual performance of every statement made in their advertising, provided installation is as per instructions.

Each

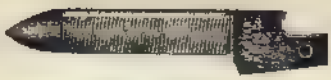
No. BRT—Regular Type for all Regular Touring Cars and Roadsters $18.00

No. BHT—Heavy Type for Sedans and Heavy Bodies on Standard Model "T" Chassis 18.00

POCKET KNIFE BLADE SHAPES

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

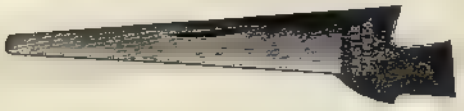
ULSTER KNIFE CO.



NAIL, No. 10

FILE, No 9

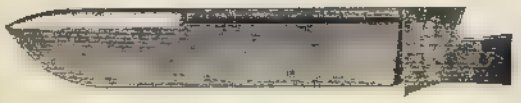
SQUARE POINT PEN, No. 6



BELT OR LEATHER PUNCH, No. 13

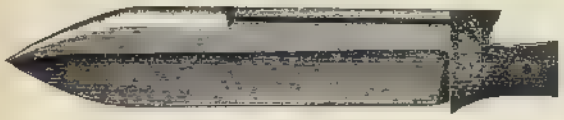
PEN, No. 11

WHARNCLIFFE, No. 5

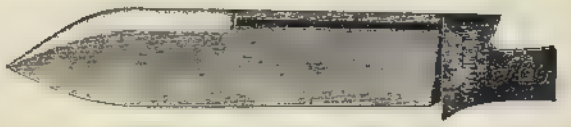


SPEY, No. 8

SHEEP FOOT, No. 4

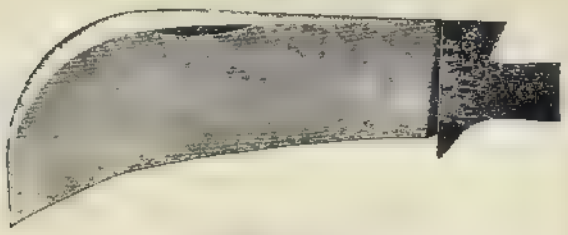


SABER, No. 7



SPEAR, No. 2

CLIP, No. 3



PRUNING, No. 1

SPATULA, No. 12

Ulster Pocket Knives are made of Wardlow's English Crucible Steel, which is considered the highest grade for pocket knife blade purposes. They are made by skilled American workmen and are unexcelled for quality, style and finish.

Every Knife Warranted.

POCKET KNIVES

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

ULSTER KNIFE CO.

Prices on Request

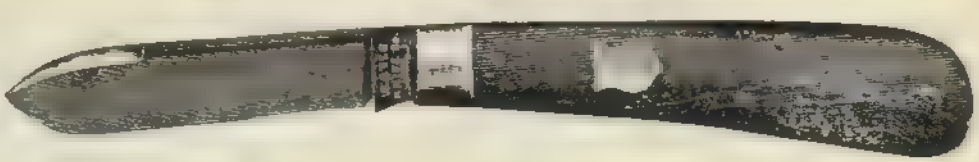
No. 194—1 Blade. 2¾ inches. **Buffalo** Handle. Brass Lined. German Silver Bolster. Polished. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about ½ pound

No. 186—1 Blade. 3 inches. **Stag** Handle. Brass Lined. Steel Bolster. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 1¼ pound

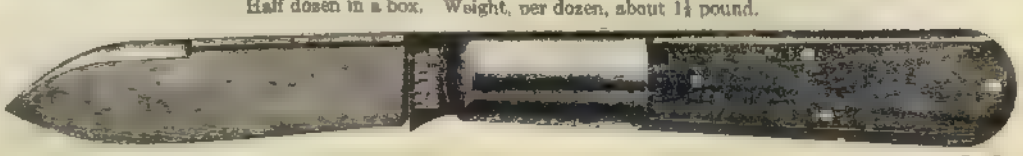
No. 192—1 Blade. 3½ inches. **Stag** Handle. Brass Lined. German Silver Bolster. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about ¾ pound

No. 190—1 Blade. 3 inches. **Cocobolo** Handle. Iron Lined. Steel Bolster. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about ¾ pound

No. 102½—1 Blade. 3½ inches. **Iron** Handle. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 1¼ pound.



No. 183—1 Blade. 3¾ inches. **Cocobolo** Handle. Iron Lined. Steel Bolster. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 1¼ pound.



No. 191—1 Blade. 3¾ inches. **Bone** Handle. Iron Lined. Steel Bolster. Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 1¼ pound.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

POCKET KNIVES

Prices on Request

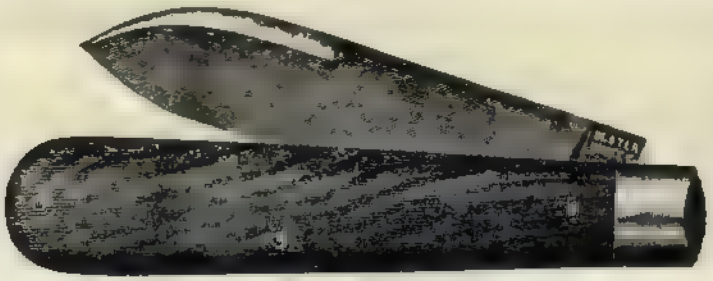
ULSTER KNIFE CO.

							Per Dozen
No. 109	—1 Blade.	3½ inches.	**Cocobolo** Handle.	Brass Lined.	Steel Bolster	**Spear** Blade	$ ¢
No. 109½	—1 Blade.	3½ inches.	**Cocobolo** Handle	Brass Lined	Steel Bolster	**Sheep Foot** Blade	
No. 109¾	—1 Blade	3½ inches.	**Cocobolo** Handle	Brass Lined	Steel Bolster	**Clipped** Blade.	

Half dozen in a box. Weight, per dozen, about 1½ pound.

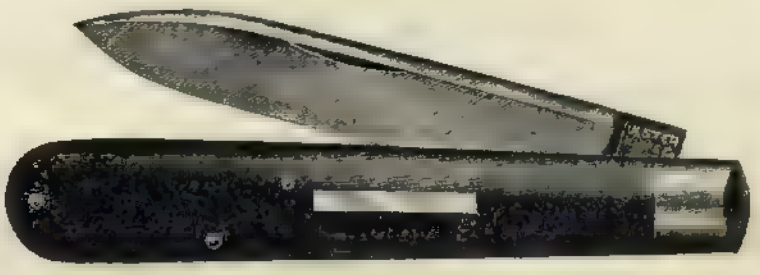
No. 114—1 Blade. 3½ inches. **Cocobolo** Handle. Iron Lined Steel Bolster. . . . . $ ¢ Per Dozen

Half dozen in a box. Weight, per dozen, about 1½ pound.



No. 117—1 Blade. 4 inches. **Cocobolo** Handle. Iron Lined. Steel Bolster . . . . . $ ¢ Per Dozen

Half dozen in a box. Weight, per dozen, about 2 pounds



No. 112 1 Blade 4½ inches. **Buffalo** Handle. Brass Lined. German Silver Bolster Polished. **Lock Back** . . . . . $ ¢ Per Dozen

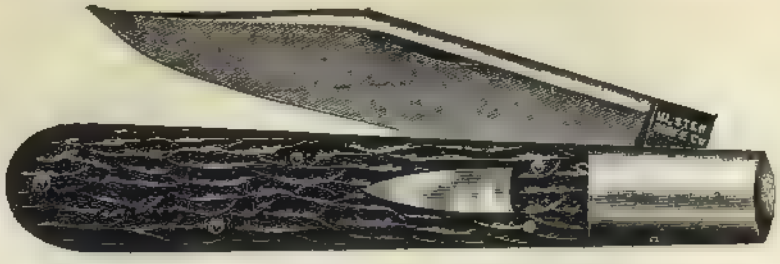
Half dozen in a box. Weight, per dozen, about 2 pounds.

POCKET KNIVES

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE.

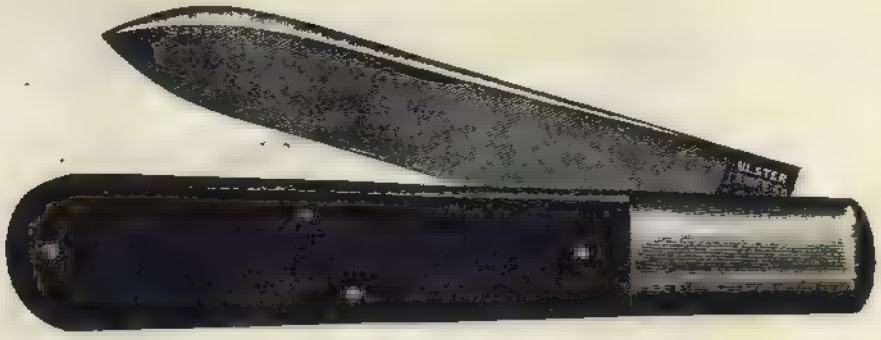
ULSTER KNIFE CO.

Prices on Request



	Per Dozen
No. 113¾—1 Blade 4½ inches. **Stag** Handle Brass Lined German Silver Bolster Polished **Lock Back**	$

Half dozen in a box. Weight, per dozen, about 2½ pounds.



	Per Dozen
No. 115—1 Blade. 5 inches. **Bone** Handle Iron Lined. Steel Bolster **Spear** Blade	$
No. 115¾—1 Blade. 5 inches. **Bone** Handle Iron Lined. Steel Bolster **Clipped** Blade	

Half dozen in a box. Weight, per dozen, about 3½ pounds

	Per Dozen
No. 111¾—1 Blade. 5½ inches. **Ebony** Handle Iron Lined. Steel Bolster. Steel Cap.	$

Half dozen in a box. Weight, per dozen, about 3½ pounds

POCKET KNIVES

Prices on Request

ULSTER KNIFE CO.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

		Per Dozen
No. 230 —2 Blades. 3¼ inches. **Cocobolo** Handle. Brass Lined. Steel Bolster. Polished		$
No. 230X 2 Blades. 3¼ inches. **Cocobolo** Handle. Brass Lined. Steel Bolster. Glazed		
No. 231 —2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolster. Polished		
No. 231X—2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolster. Glazed		

Half dozen in a box. Weight, per dozen, about 2 pounds.

		Per Dozen
No. 246 —2 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. Steel Bolster. Polished		$
No. 246X—2 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. Steel Bolster. Glazed		

Half dozen in a box. Weight, per dozen, about 2 pounds.

		Per Dozen
No. 248—2 Blades. 3¼ inches. **Cocos** Handle. Brass Lined. German Silver Bolster. Polished		$
No. 250—2 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. German Silver Bolster. Polished		

Half dozen in a box. Weight, per dozen, about 2¼ pounds.

		Per Dozen
No. 2105—2 Blades. 3¼ inches. **Buffalo** Handle. Brass Lined. German Silver Bolster. Polished		$

Half dozen in a box. Weight, per dozen, about 2¼ pounds.

		Per Dozen
No. 244—2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolster. Polished		$
No. 245—2 Blades. 3¼ inches. **Genuine Stag** Handle. Brass Lined. German Silver Bolster. Polished		

Half dozen in a box. Weight, per dozen, about 1¼ pound.

POCKET KNIVES

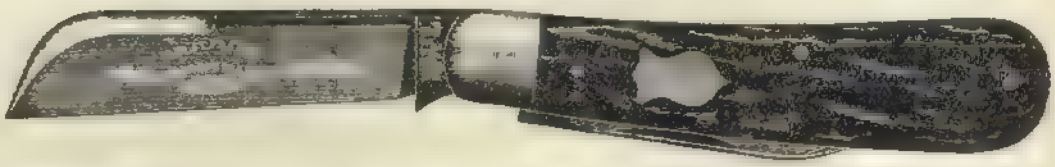
ULSTER KNIFE CO.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request

No. 239 —2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolster. Polished
No. 239X —2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolster. Glazed
Half dozen in a box. Weight, per dozen, about 2¼ pounds.

Per Dozen $



No. 292 —2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolster. Polished
No. 292X —2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolster. Glazed
Half dozen in a box. Weight per dozen about 2¼ pounds

Per Dozen $

No. 240—2 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolster
Half dozen in a box. Weight per dozen, about 2⅝ pounds

Per Dozen $

No. 214 —2 Blades. 3¼ inches. **Cocobolo** Handle. Iron Lined. Steel Bolster. Polished
No. 214X 2 Blades. 3¼ inches. **Cocobolo** Handle. Iron Lined. Steel Bolster
Half dozen in a box. Weight, per dozen, about 2¼ pounds

Per Dozen $

No. 218—2 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. Steel Bolster. Polished.
Half dozen in a box. Weight, per dozen, about 2¼ pounds.

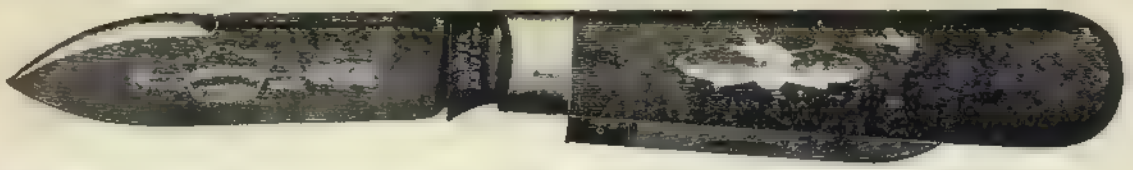
Per Dozen $

POCKET KNIVES

ULSTER KNIFE CO.

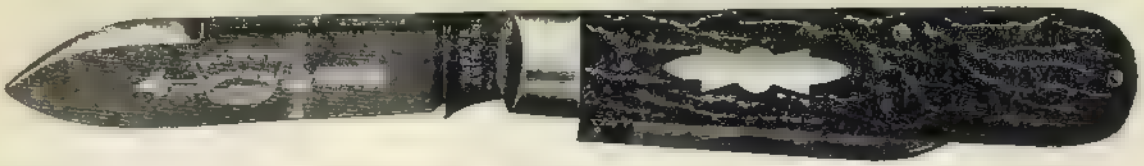
ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request



							Per Dozen
No. 233	2 Blades	3¼ inches.	**Cocoa** Handle.	Brass Lined.	German Silver Bolster.	Polished	$
No. 233X	2 Blades	3¼ inches.	**Cocoa** Handle.	Brass Lined.	German Silver Bolster.	Glazed	
No. 234	2 Blades	3¼ inches.	**Ebony** Handle.	Brass Lined.	German Silver Bolster.	Polished	
No. 234X	2 Blades	3¼ inches.	**Ebony** Handle.	Brass Lined.	German Silver Bolster.	Glazed	

Half dozen in a box. Weight, per dozen, about 2½ pounds.



						Per Dozen
No. 270	2 Blades.	3¼ inches.	**Stag** Handle	Brass Lined	Steel Bolster	$

Half dozen in a box. Weight, per dozen, about 2½ pounds.

								Per Dozen
No. 254	2 Blades.	3¼ inches	**Stag** Handle	Brass Lined	German Silver Bolster	Polished	**Spear** Blade	$
No. 254½	2 Blades	3¼ inches.	**Stag** Handle	Brass Lined	German Silver Bolster.	Polished.	**Sheep Foot** Blade	
No. 255	2 Blades	3¼ inches.	**Genuine Stag** Handle	Brass Lined.	German Silver Bolster.	Polished.	**Spear** Blade.	

Half dozen in a box. Weight, per dozen, about 2½ pounds.

							Per Dozen
No. 236	2 Blades.	4¼ inches.	**Cocoa** Handle	Brass Lined.	Steel Bolster.	Polished.	$
No. 237	2 Blades.	4¼ inches.	**Ebony** Handle	Brass Lined.	Steel Bolster.	Polished	
No. 238	2 Blades.	4¼ inches.	**Stag** Handle.	Brass Lined	Steel Bolster	Polished	

Half dozen in a box Weight, per dozen, about 2¾ pounds.

POCKET KNIVES

ULSTER KNIVES CO.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request

							Per Dozen
No. 2111	2 Blades.	4½ inches.	**Cocoa** Handle.	Iron Lined.	Steel Bolsters.	Glazed.	$ ¢
No. 2112	2 Blades.	4½ inches.	**Ebony** Handle.	Iron Lined	Steel Bolsters	Glazed	
No. 2113	2 Blades.	4½ inches.	**Stag** Handle	Iron Lined.	Steel Bolsters.	Glazed	

Half dozen in a box. Weight, per dozen, about 2½ pounds

No. 297—2 Blades 3¾ inches. **Cocoa** Handle. Brass Lined. German Silver Bolster. Polished. **Extra Thick Back** Per Dozen $ ¢

Half dozen in a box. Weight, per dozen, about 3 pounds

							Per Dozen
No. 252—2 Blades	3½ inches	**Ebony** Handle	Brass Lined	German Silver Bolster	Polished		$ ¢
No. 251	2 Blades	3½ inches.	**Cocobolo** Handle	Brass Lined	German Silver Bolster	Polished	
No. 253—2 Blades	3½ inches	**Stag** Handle	Brass Lined	German Silver Bolster	Polished		

Half dozen in a box Weight, per dozen, about 2¾ pounds

No. 261—2 Blades 4½ inches **Genuine Stag** Handle Brass Lined German Silver Bolster Polished $ Per Dozen ¢

Half dozen in a box Weight, per dozen, about 2¾ pounds

							Per Dozen
No. 2305—2 Blades. Polished	2½ inches	**Stag** Handle.	Brass Lined	German Silver Bolster	German Silver Cap		$ ¢
No. 2304—2 Blades Polished	2½ inches	**Ebony** Handle	Brass Lined	German Silver Bolster	German Silver Cap.		
No. 2306—2 Blades. Full Polished	2½ inches	**Pearl** Handle.	Brass Lined	German Silver Bolster	German Silver Cap.		

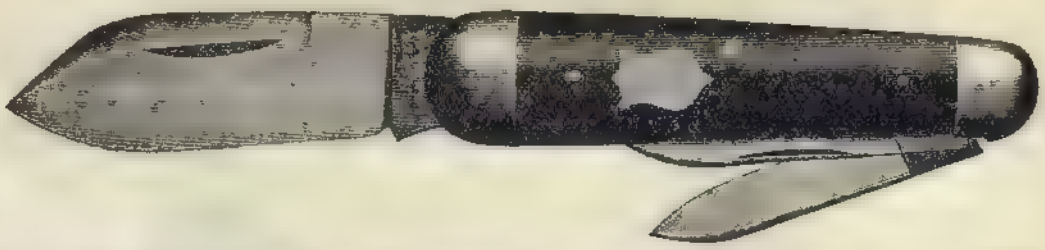
Half dozen in a box. Weight, per dozen, about ¼ pound.

POCKET KNIVES

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request

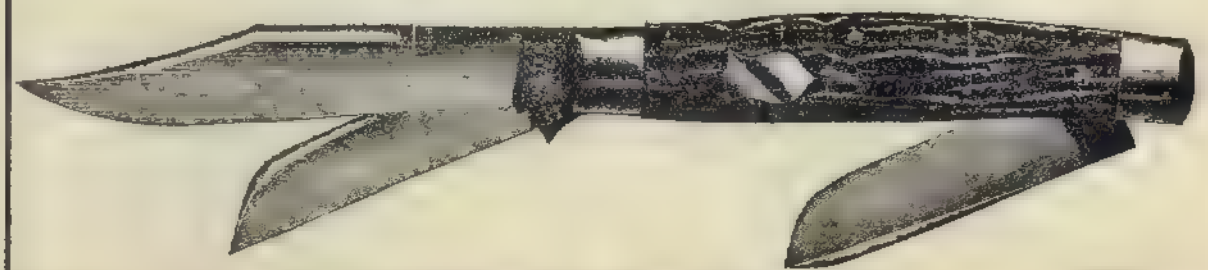
ULSTER KNIFE CO.



No. 3004—3 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. German Silver Bolsters. Polished. . . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 2½ pounds.

No. 3157—3 Blades. 3¼ inches. **Knurled Celluloid** Handle. Brass Lined. German Silver Bolsters. Polished. $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 1½ pound.

No. 3158—3 Blades. 3¼ inches. **Knurled Celluloid** Handle. Brass Lined. German Silver Bolsters. Polished. $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 2 pounds.



No. 3151—3 Blades. 3½ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished. . . . . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 2½ pounds.

POCKET KNIVES

ULSTER KNIFE CO.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request

Per Dozen

No. 3124—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished . . . $ $
Half dozen in a box. Weight, per dozen, about 2¼ pounds.

Per Dozen

No. 3052—3 Blades. 4 inches. **Stag** Handle. Brass Lined. Steel Bolsters. Polished. . . . . $ $
Half dozen in a box. Weight, per dozen, about 1¼ pound

Per Dozen

No. 3053—3 Blades. 4 inches. **Genuine Stag** Handle. German Silver Lined. German Silver Bolsters. Polished. **Engraved Back** . . . . . $ $
Half dozen in a box. Weight, per dozen, about 1¼ pound.

Per Dozen

No. 3043—3 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. German Silver Bolsters. Polished. . . . . $ $
No. 3044—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished. . . . . .
Half dozen in a box. Weight, per dozen, about 1¼ pound.

POCKET KNIVES

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

ULSTER KNIFE CO.

Prices on Request

No. 3119—3 Blades. 3½ inches. **Cocoa** Handle. Brass Lined. German Silver Bolsters. Polished — Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 2 pounds

No. 3123—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Full Polished . . . — Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 2½ pounds.

No. 3045—3 Blades. 3¼ inches. **Ebony** Handle. Brass Lined. Steel Bolsters. Polished — Per Dozen $ ¢
No. 3046—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. Steel Bolsters. Polished
Half dozen in a box. Weight, per dozen, about 2½ pounds.

No. 3047—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished — Per Dozen $ ¢
Half dozen in a box. Weight, per dozen, about 2½ pounds

POCKET KNIVES

ULSTER KNIFE CO.

ILLUSTRATIONS ABOUT NINE TENTHS OF THE ACTUAL SIZE

Prices on Request

No. 3045—3 Blades. 3¾ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished. Per Dozen $ $
Half dozen in a box. Weight per dozen, about 2¼ pounds.

No. 3054—3 Blades. 4¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished .. . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 3¾ pounds.

No. 3134—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished. **Belt Punch** Blade . . . . . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 1¼ pound.

No. 3136—3 Blades. 3¼ inches. **Pearl Celluloid** Handle. Brass Lined. German Silver Bolsters. **Belt Punch** Blade . . . . . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 1¼ pound.

No. 3080—3 Blades. 3¼ inches. **Stag** Handle. Brass Lined. German Silver Bolsters. Polished. **Belt Punch** Blade . . . . . $ Per Dozen $
Half dozen in a box. Weight, per dozen, about 2¼ pounds.

CORN PLANTERS

ACME

Hand Planting Every Bit of Available Soil is Planted and Seed Deposited

No. 307

CORN AND PUMPKIN SEED

Two-hand slide Type, with a Segmental Slide of Pressed Steel. Adjustable Drop. Jaws are Steel, Riveted to Hardwood Sides. Hopper Bottom and Conveyor Tube are Steel and Planter is Finished Handsomely in Natural Wood Color Dipped in Two Coats of Durable Varnish. Has a Pumpkin-device which is Thoroughly Reliable, Made to Drop About Every Fourth Hill with Corn and is not Adjustable. With this Device Pumpkin Seed can be Planted Without Any Additional Labor

Per Dozen

No. 307 . . . . **$25.00**

SEGMENT CORN

Automatic Slide Type . . . mental Pressed Steel Slide . . . Adjustable for Number of Kernels, Running on Segmental Steel Track. Chrome Bristle Brush Cut-off. Double Coil Steel Spring, Adjustable Depth Gauge, Fixed Dump Lever, Galvanized Hopper with Hinged Cover, Galvanized Seed Spout, Hardwood Sides, Finished in Vermilion, pressed Steel Jaws, Smooth Handle, Two Coats of Varnish. Can be Used Also for Planting Beans. Pumpkin Seeds may also be Planted by Operator Dropping Seed into Hole in Spout

Per Dozen

No. 311 **$35.00**

Half dozen in a carton

CORN SHELLERS

GENUINE PATCH BLACK HAWK

Sheller and Separator

Shells Field Corn, Seed Corn and Pop Corn. Clamps to Barrel, Bin or Box. Capacity, 8 to 14 Bushels Per Hour. Throws out the Cob. Japanned Malleable Iron Castings. Hardened Bearings. Chilled Grinders. Adjustable Hopper, Width, 3½ Ins. Depth, 4 Ins. Pressure Regulated by Heavy Wire Coil Spring. Steel Axle with 4-in. Bearings. Diam. of Grinding Plate, 8½ Ins. Studded with ½-in Teeth. Length Over All 12 Ins. Width 10 Ins. Length of Crank, 11 Ins.

Per Dozen

No. 30 Wt., Each About 14 Lbs. **$56.00**

"R. & H."

Old Black Eagle

Capacity, 8 to 14 Bushels Per Hour. Japanned Malleable Iron Strong and Durable Wood Hopper, 3½ Ins Depth, 4 Ins. Diameter of Grinding Plate 8½ Ins. Length Over All, 12 Ins. Width, 10 Ins. Length of Crank, 8½ Ins.

Per Dozen

No. 5 Wt., Each, About 14½ Lbs. **$57.40**

One dozen in a barrel.

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

DUMB WAITER FIXTURES

ACME OR NEW YORK

Pulleys and standards necessary to complete the outfit.

Rope, weight or car not included.

The simplest, most durable and economical waiter ever made. Lifts easily 50 to 75 pounds. Made in one size only, and suitable for openings up to 24 inches square.

No.	8
Weight per set, lbs	75
Per set	$30 00

One set in case.

JUMPER

Pulleys and standards necessary to complete the outfit.

Rope, weight or car not included. Standards, 4 inches; wheels, 3 inches. Adapted to all places where 50 pounds or less are to be carried, especially where there is lack of head room.

No.	1
Weight per set, lbs	31
Per set	$22.50

One set in case.

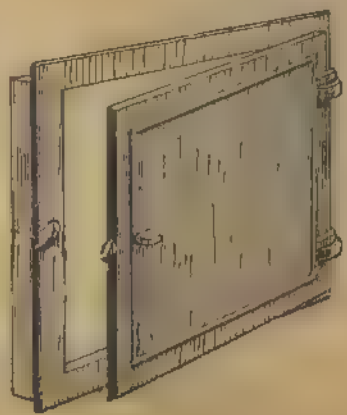
ASH PIT DUMPS

Galvanized iron, unfinished.

Size, inch	7x9
Weight per dozen, lbs	64
Per dozen	$9 50

Loose.

ASH PIT DOORS



Galvanized iron, unfinished

Size, inch	8x10
Weight per dozen lbs	64
Per dozen	$21 00

Loose.

BATHROOM FIXTURES

SHAVING MIRRORS

Adjustable to any position. French plate mirror. Nickel plated mountings.

No.	3
Weight each, lbs	1¾
Diameter, inch	6
Each	$4.00

One in a box, with screws.

Adjustable wall mirror. Can be swung in any direction or angle. May be removed from wall and used as a hand mirror, beveled French plate mirror. All metal of solid brass, nickel plated.

No.	202 N
Diameter, inch	6
Weight dozen, lbs	19½
Per dozen	$36.00

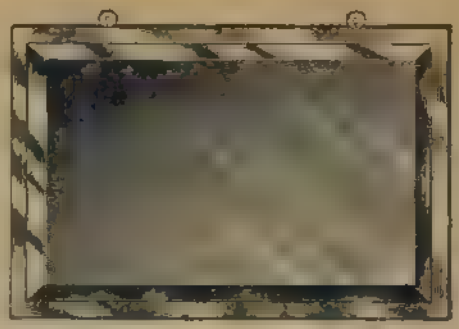
One in a box.

Easel mirror. Can be used as a hand or stand mirror. Can also be hung on the wall. All metal parts nickel plated, beveled French plate mirror.

One-twelfth dozen in a box, knocked down.

No.	401 N
Diameter, inch	6
Weight per dozen, lbs	10½
Per dozen	$21.25

One in a box.



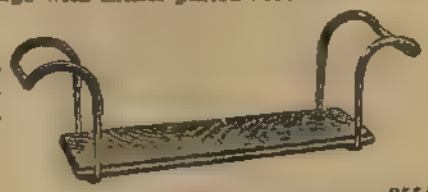
MIRRORS

High grade, beveled French plate mirror. Metal back. Extra heavy plain edge brass frame. Nickel plated.

Nos.	1218	1620
Size, inch	12x18	16x20
Weight each, lbs	7½	10½
Each	$9.50	11.50

One in a package with nickel plated screws.

BATH SEATS



Oak board, white enameled endless rubber covered brackets. Adjustable to any bath tub.

No.	3554
Size board, inch	6x19
Weight dozen, lbs	36
Per dozen	$31.50

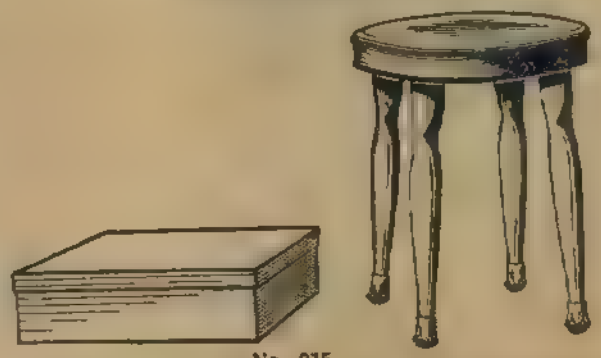
Loose.

Web seat, 4⅞x20 inches. Endless rubber covered brackets. Adjustable to any bath tub.

No.	150
Weight each, lbs	1½
Each	$2.70

One-half dozen in a box.

BATH STOOLS



No. 215

Oak. White enameled. Screw legs. Rubber tipped.

No.	215
Height, inch	15½
Top diameter, inch	11½
Weight dozen, lbs	63
Per dozen	$70 00

One-twelfth dozen in a box, knocked down.

DUMB WAITER FIXTURES

ACME OR NEW YORK

Pulleys and standards necessary to complete the outfit.

Rope, weight or car not included.

The simplest, most durable and economical waiter ever made. Lifts easily 50 to 75 pounds. Made in one size only, and suitable for openings up to 24 inches square.

No.	3
Weight per set, lbs	75
Per set	$30 00

One set in case.

JUMPER

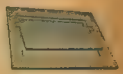
Pulleys and standards necessary to complete the outfit.

Rope, weight or car not included. Standards, 4 inches; wheels, 3 inches. Adapted to all places where 50 pounds or less are to be carried, especially where there is lack of head room.

No.	1
Weight per set, lbs	21
Per set	$22.50

One set in case.

ASH PIT DUMPS

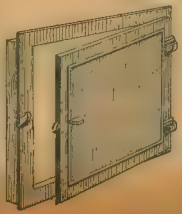


Galvanized iron, unfinished.

Size, inch	7x9
Weight per dozen, lbs.	64
Per dozen	$9.50

Loose.

ASH PIT DOORS



Galvanized iron, unfinished.

Size, inch	8x10
Weight per dozen, lbs.	64
Per dozen	$21.00

Loose.

STILETTO ADVERTISING ELECTROTYPES

Any of these electrotypes furnished our customers upon request. Order by number. Double column—size, 4¼x5 inches.

STILETTO
"It's all in the Steel and Grinding."
RAZORS
—STILETTO— Razor Blades are forged in England. English Razor Steel is the best in the world— This combination makes the —STILETTO— the highest grade razor on the market. Try one and be convinced
We guarantee them.

No 23

STILETTO
Pocket Knives
Always Ready for use
Some knives are a nuisance. Blades require frequent sharpening Edges invariably turn.
—STILETTO—
Knives are ground sharp at the factory and are always ready for use.
The blades we guarantee to take and hold an edge
We carry an excellent assortment

No. 24

Single column—size, 2⅛x5 inches.

STILETTO
For every purpose that rakes are made, you will find a —STILETTO— Rake which in design, construction, balance and material, is superior to any on the market.
—STILETTO— Garden Implements Tools, Cutlery, Paint Hardware or Farm Implements
Are Guaranteed to be the Best
An absolute guarantee goes with every sale.
STILETTO
REG. U.S. PAT. OFF.

No. 21

—STILETTO—
Kitchen Knives
The Kitchen Knife with the Pocket Knife Blade
Something new and distinctive — the handiest article imaginable for the kitchen. The trade mark
—STILETTO—
means, "The steel is of the same reliable quality which has made —STILETTO— Pocket Knives famous."
Be particular in selecting small articles.

No. 27

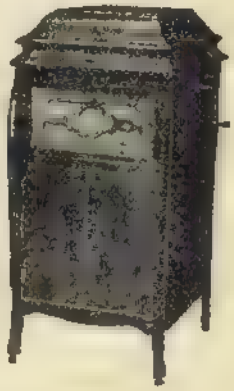
STILETTO
Butcher Knives
The Most Important Article in Your Kitchen Equipment
Why tolerate a "Butcher Knife" that must be sharpened daily when you can buy a —STILETTO—
Butcher Knives bearing this brand are dependable the blades hold their edge the quality of steel makes the difference.
We have a large assortment. Let us sell you one NOW
Our guarantee covers all styles and patterns, regardless of price

No. 28

PHONOGRAPHS

Dalion

MODEL 10



MODEL 20

MODEL 40

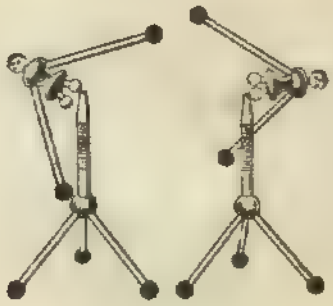
MODEL 30

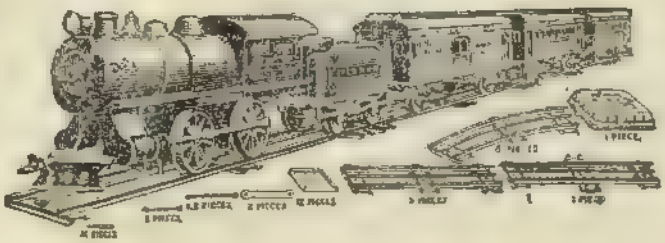
MODEL 50

Write for Separate Catalog.

TOYS

Large and Complete Stock





Good-bye to the Old Farm!

Who'll take his place?

Never before has the farmer been so eager to avail himself of labor-saving devices as right now—for the simple reason that labor was never so scarce. The farmer boy and the farm hand are deserting their jobs by the thousands to seek positions in the big towns.

If you are wise you will take advantage of this situation by selling to the farmers in your locality that greatest of all labor-savers—

AETNA EXPLOSIVES

Our Dealer-Helps will aid you in pointing out to him the various ways in which Aetna Explosives may be used to make up the shortage in labor—stump blasting, rock blasting, ditch digging, tree planting, subsoil blasting, post-hole digging, etc., etc.

A few sticks of Aetna here and there do the work of a dozen farm hands, and do it quicker, better and cheaper.

Don't let this profitable business slip through your fingers. We will show you how you can become a successful Aetna Dealer. Write us without delay for full particulars.

NOTE: We ship direct to your customer in case you have no facilities for keeping Aetna Explosives in stock.

Become an Aetna Dealer—Today!

AETNA EXPLOSIVES COMPANY

Incorporated

165 Broadway, New York

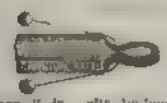
	Branches	
Birmingham, Ala.		Pittsburgh, Pa.
Buffalo N. Y.		Pottsville Pa.
Chicago, Ill.	Joplin, Mo	Roanoke, Va.
Denver, Colo.	Louisville, Ky.	St. Louis, Mo
Duluth, Minn	Norristown, Pa.	Wilkes-Barre, Pa.

AETNA

It Does the Work!

CARNIVAL RATTLES

Unrivaled noise makers.

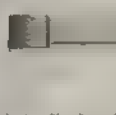


Clapper—8 in. all hardwood body, solid handle, colored bell clappers on steel springs.
P 341 1 doz in box . Doz 43c

Comb Horn and Drum Rattle—Red, white and blue tissue covered drum rattle attached to hard turned wood mouthpiece.
P2345—1 doz in box.....Doz 89c

Big Noise Rattle—Yellow, red, white and blue tube attached to metal strum rattle board, metal bell action and hard wood handle, very noisy. 3 doz. in box
P 930—4½x2¾ in Doz 43c

Carnival Rooter—Heavy 1X polished stamped tin, metal crank, each in carton.
P2347—1 doz. in box .. Doz. 95c



Orchestra—Hardwood, turned wood handles, stained in shades, strong wire bows.
P2348—6½ in., 3 doz. in box. (Total 90c) Doz. 45c

Drum Rattle—4½ in. steel frame, lithographed in colors, ratchet spring gear action and diaphragm, pasteboard drum, nickel finish hardwood handle. Very loud noise.
P 1 doz. in box
Total $1.

Razoo—4½x3" litho paper drum all steel ratchet, gear action, large metal diaphragm, pasteboard drum, nickel finish hardwood handle. Very loud noise.
P 1 doz. in box
$2.00

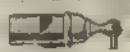
"Jim Crow Horn & Cricket"—8 in. [illegible] Wood [illegible] wood handle with wood reed
P 350—1 doz in box Doz 89c

WHISTLING RETURN BALL

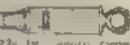
P3640—[illegible] Below world [illegible] with finger [illegible] wood handle with [illegible] reed
Doz 93c

METAL WHISTLES

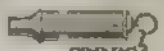
Extra loud nickel plated brass bodies, unless stated.



Warbler—2 in., extra loud cork warbler ring for mouth
P 2343—2 doz in box Doz 42c (Total 84c)

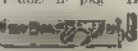


Duplex—3¾ in., screw type double warble
P 2354—2 doz. in box Doz 45c



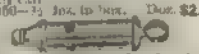
Scout—3 in., police or boy scout type nickel plated double call, [illegible]
P [illegible] 1 doz. in carton Doz 82c

Police Cop or Traffic—3½ in., [illegible]
P [illegible] 1 doz. in pkg Doz 95c

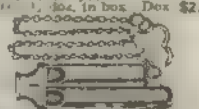


Boy Scout—3½ in. gun metal finish brass, shrill double call ring and official scout emblem
P 2353—1 doz. in box Doz $2.18

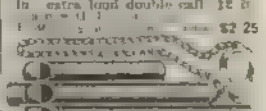
Postman's or Traffic—3½ in. [illegible] nickel plated, [illegible] single call, [illegible] large barrel with cork warbler ring for call
P 2360—½ doz. in box. Doz. $2.25



Regulation Police—3¼ in. large barrel, nickel plated [illegible]
P [illegible] doz. in box Doz $2.25



Duplex Cylinder with Chain—3¼ in. extra loud double call, 12 in. [illegible]
P [illegible] $2.25



Auto Triple Cylinder—5½ in. extra loud chirpy call, 18 in. chain with button ring
P 2362—½ doz in box. Doz. $4.50

RAPID FIRING TANK

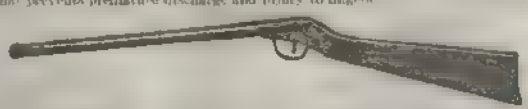
P 2343—8 in. all steel shell, like battleship gray, black outlined scrolling and sight, copper brass finish guns, rear [illegible] [illegible] string [illegible]
P [illegible] Doz 96c

AIR RIFLES TOY PISTOLS & POP GUNS

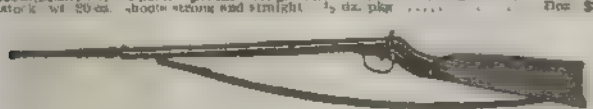
Proven sellers. This is the most complete line we have ever assembled. The variety of styles and the wide range of prices enable you to select a stock fitting to your store and customers. Compare these with [illegible] of similar quality. You will then see why it is wise to buy here

"UPTON" AIR RIFLES—Gun Metal Finish

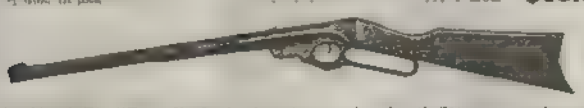
Guaranteed against all defects of material and workmanship. Have [illegible] safety device that prevents premature discharge and injury to fingers.



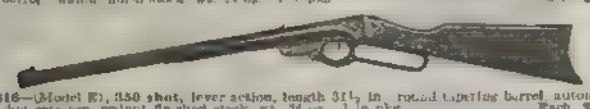
P2640—(Model C), "Upton Special" single shot break action, length 29 in., walnut finish stock, wt. 20 ozs., shoots strong and straight. ½ dz. pkg [illegible] Doz $9.75



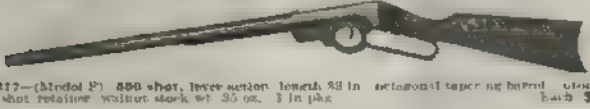
P2631—Single shot lever action spring gun, length 37 in., walnut finish stock, [illegible] adjustable bayonet and adjustment sling, wt. 36 ounces, each in carton, ½ doz. in pkg [illegible] Doz. **$13.50**



P2615—(Model D), "Upton" single shot lever action, length 39½ in., [illegible] barrel, walnut finish stock, wt. 44 oz. [illegible] pkg [illegible] each $1.50



P2616—(Model E), 850 shot, lever action, length 31½ in., round tapering barrel, automatic shot retainer, walnut finished stock, wt. 34 oz. 1 in pkg [illegible] Each $1.70



P 2617—(Model F), 800 shot, lever action, length 33 in., octagonal tapering barrel, [illegible] shot retainer, walnut stock wt. 36 oz. 1 in pkg Each $1.85

FAMOUS DAISY AIR RIFLES

All models are lever action, will shoot either air rifle shot, or darts, except P2611. Polished and nickel plated barrels, walnut stocks, accurately sighted.

Automatic Repeater—(Mfrs. B) 1000 shot, 36 in., 2 lbs. 9 oz., 1 in box
P2035—Polished and nickel plated barrels [illegible] Temp. Out
P2036—Mfrs. B3) metal parts gun plated [illegible] Each $3.15

P2650

RIFLE SHOT

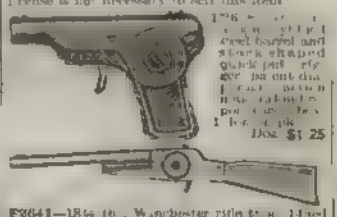
P 2654

Drop Shot—
P2650—5 lb. in canvas bag. Bag 5 lbs. 95c

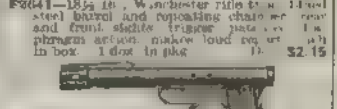
"Boy Scout"—Shell take with perforated [illegible] long band to permit shot to be taken out, contains 250 air rifle shot
P2653 1 doz. shells in box Doz. shells, 79c

"SCOUT" AUTOMATIC TOY PISTOLS AND GUNS

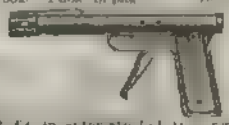
Mir[illegible] automatic, shoots as fast as the lever can be pulled making a sharp cracking [illegible] Noise is not necessary to sell this item. License is not necessary to sell this item



P2636—[illegible] steel barrel and black shaded quick pull rifle [illegible] 1 doz. in pkg Doz $1.25

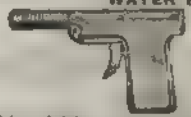


P2641—18½ in., Winchester rifle [illegible] steel barrel and repeating chamber rear and front sights, trigger pistol [illegible] diaphragm action, makes loud report [illegible] in box 1 doz in pkg Doz. $2.15



P2650—6½ in. automatic [illegible] repeating [illegible] steel barrel, [illegible] action, each [illegible] automatically inserted and exploded, each in box ½ doz. in box Doz $4.40

AUTOMATIC "SURE SHOT" WATER PISTOL

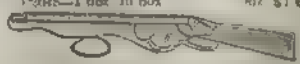


P1696—6 in. bright [illegible] finish metal [illegible] and trip [illegible] [illegible] Doz. 95c

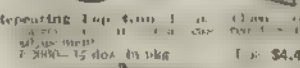
TARGET, POP AND REPEATING PISTOLS AND GUNS

All have stained wood stocks and gun metal finish barrels [illegible] [illegible] with [illegible]

Target Pistol [illegible] repeating noise. Doz. $1.60



P2648—1 doz. in box



Repeating Top Gun [illegible] [illegible] [illegible]

GAMES OF ALL KINDS

A wide selection of games all of which are remarkable values in this line. The popular novelty and educational numbers shown here are by far the biggest sellers. Progressive merchants will realize that they cannot have too many of these in stock. Be prepared with a complete line and your business will show a material increase this year.

POPULAR GAMES

Clown ... in ... metal book ... 3 assid color rings, can be hung on wall. Doz
F1815—1 doz. in pkg. ..$1.40

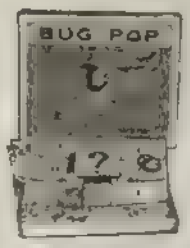
"Pitch Em ... Shoe Game ... board ... pegs ... per to ... sheet to ... fill ...
F1840—... doz. in pkg
Doz. $2.15

Barber Pole—... pole ... ed base ... wood ... bottom ... rings, ... colored ... wires, felt ... in litho ... Doz.
F1814 ... $4.40

Shuffle Bug — 8½ x 7 in. ... board ... with counter- ... 2 large ... ed ... 3 ... with ... Each $4.40

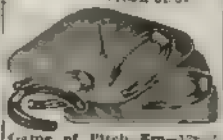
"Loony" ... 10x ... sliding tray, heavy steel supports ... with ... Doz. $8.75

Toy Town Target Game with Repeating Pistol—... 3 litho ... board ... ers figures on wire, ... set in box. Each
F1873—... doz. in pkg. ...95c

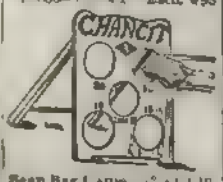


Bug Pop ... in card- ... rawings ... of ... square answers your ques- ... in 10x11½ in. litho box.
F2881—½ dz. pkg. Dz. $9.00

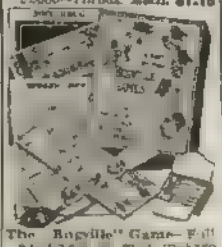
Down & Out Marble Game—6¾ in., ivory and red ... ailed tray, colored pock- ... red ... twisted wire ... with ... 4 ... metal marbles, litho ... each in ... F1958—3 in pkg. Each 62c
Total $1.84



Game of Pitch Em—... in ... brass ... rubber ... metal ... with ... 2 large ... and ... with ... shoes, for ... outdoor use.
F2005—1 ... Each, 49c



Bean Bag Game ... in ... varnished triple veneer birch ... eyes, maple frame, ... easel with wood hinge, cloth bean bag.
F2006—1 in box. Each, $1.15



"The Ringville" Game—Full ... ring ... Alley ... and Soccer ... 4 assid. bugs ... soccer ... 6 ... heavy cardboard sheet for counts, each set in leather- ... box, litho table.
F2007—1 ... Each $1.50

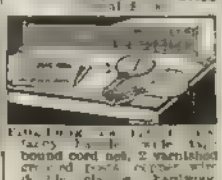
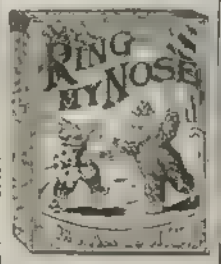


Table Tennis Game—... table ... bound cord net, 2 varnished ... rubber ... with ... 4 ... Each ... with ... reflected balls.
F1883—1 set in box. Set $1.25

Novelty Comic Bowling ... 10 ... painted ... wood ... 1 hard ... ers, 1 large ... and ... with ... and ... ball ... box.
F2001—2 in pkg. Each $1.25
(Total $2.50)

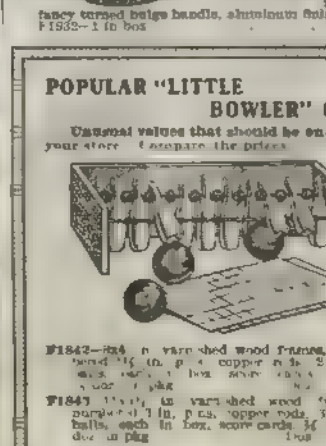


Ring My Nose Target—18½ x 13½ in. easel back litho ... board ... ring, nose and ... metal ... rubber ... 6 ... arrows ... Each $1.45

Grasshopper Tennis — ... green ... ornate box 2x12 ... cover ... felt ... white ... white tape ... steel ... with 4 wood ... seats, pattern ... handles, 6 whitebone discs, set of rules.
F1868—2 in box ... Each, $1.25
(Total $2.50)

Speed Up—16½x21½ in., varnished hard- ... board with rein- ... forced sides and ... corners, red-striped ... center ... and ... with ... wire ... with ... action shooter, 7 turned wood balls.
F1962—1 in box
Each, $2.25

Quoddy Golf Game—Consists of 3 green painted metal holes with litho ... label, 9 ... various ... with ... made clubs ... fancy turned beige handle, aluminum finish iron club.
F1932—1 in box ... Each $3.85



POPULAR "LITTLE BOWLER" GAMES

Unusual values that should be on display in your store. Compare the prices.

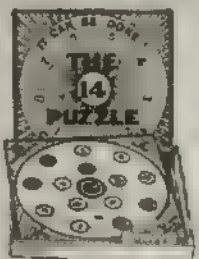
F1842—8x4 in. ... varnished wood frames, ten numbered ... in. ... copper ... in. 2 hardwood ... with ... box, score cards, ... doz. in pkg. Doz. **$3.25**

F1843—11x5½ in. ... varnished wood ... ten ... painted 1 in. pins, copper rods, 3 hard- ... balls, each in box, score cards, ½ doz. in pkg. Doz. **$7.40**

PUZZLE GAMES

F1426—1 ... sticks, beads, animals ... and flower ... various ... pattern ... to ... and ... Doz. in pkg.
Doz. 87c

F1810 ... 4½x ... in. ... beads ... cardboard ... glass ... to ... the ... with ... sections ... each in ... in pkg.
Doz $2.10

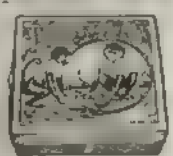


F1837—14 styles, 8x8 in. litho ... box ... ers ... face ... colored ... Assid ... in pkg.
Doz $2.15

TIDDLEDY WINKS

F1811 Fancy turned wood ... 1 large and 4 small ... winks, 5 ... box, ... I doz. in pkg.
Doz 95c

F1812 ... ... and ... 5 ... 4 ... I doz. in pkg.
Doz $1.65

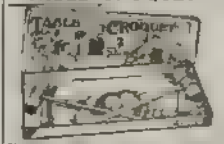


F1813—Gi ... large and ... box ...
Doz $2.25

FISH POND GAMES

F1858—9x15½ in., litho box ... pond inside, 4 numbered ... with wood ... 2 ... right, 2 poles, line and hook ... ½ doz. in pkg. Doz. $2.15

TABLE CROQUET



F1457 Four 7½ in. ... mallets, 4 painted ... with ... wood ... stakes, ... to ... box, ½ doz. sets in pkg.
Doz. set $ .50

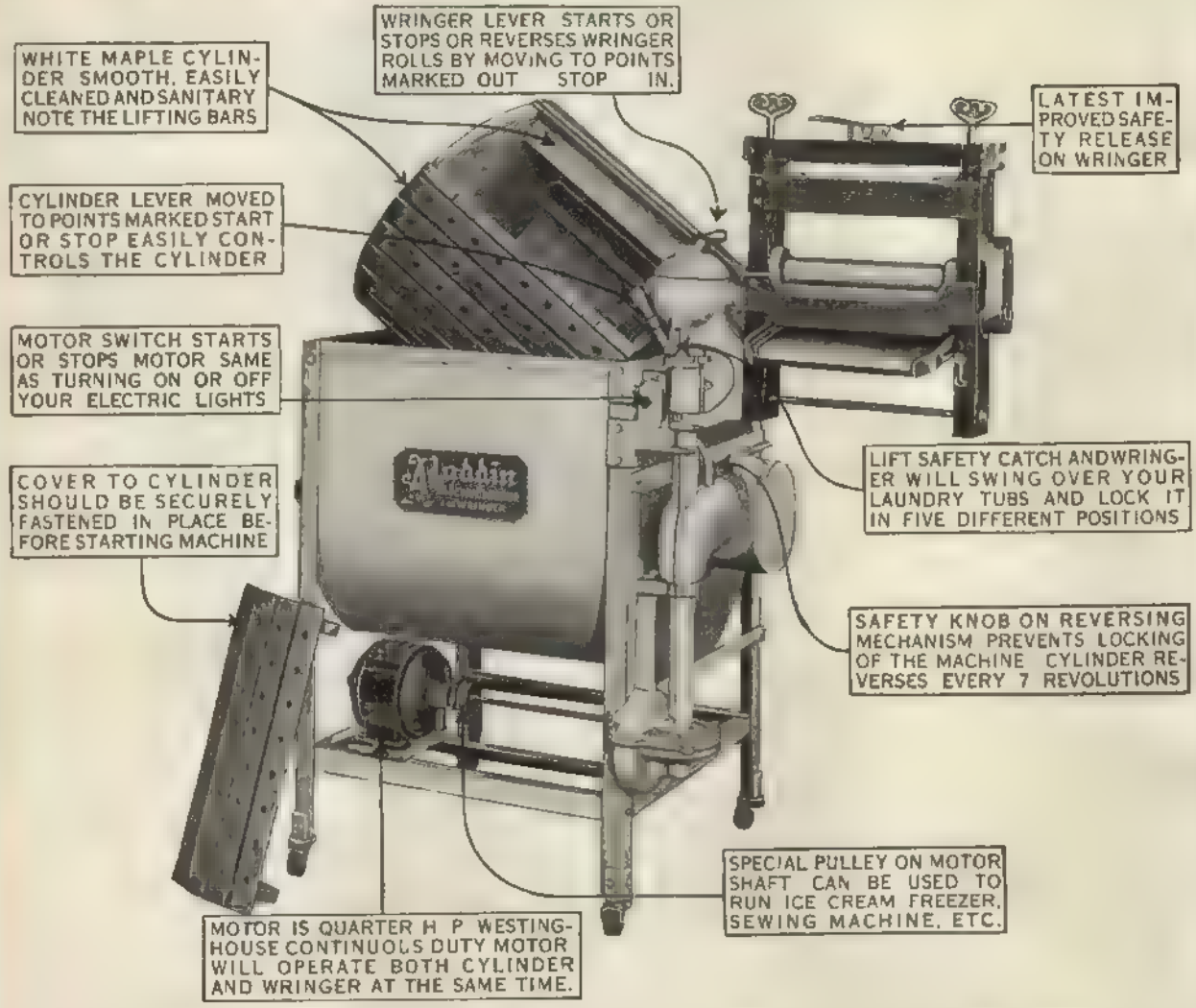
F1858 ... ...

Aladdin ELECTRIC WASHER

WITH SWINGING WRINGER

Handling an up-to-the-minute electric washer such as the "Aladdin" will not only help to increase your profits but will add prestige to your store. There is a rapidly increasing demand for high grade, well finished washing machines with modern equipment. Display and demonstrate these machines, secure your share of this growing business and the increase of profits to be derived therefrom. In stock ready to ship.

CAPACITY SIX SHEETS OR THE EQUIVALENT


WRINGER LEVER STARTS OR STOPS OR REVERSES WRINGER ROLLS BY MOVING TO POINTS MARKED OUT STOP IN.
WHITE MAPLE CYLINDER SMOOTH, EASILY CLEANED AND SANITARY NOTE THE LIFTING BARS
LATEST IMPROVED SAFETY RELEASE ON WRINGER
CYLINDER LEVER MOVED TO POINTS MARKED START OR STOP EASILY CONTROLS THE CYLINDER
MOTOR SWITCH STARTS OR STOPS MOTOR SAME AS TURNING ON OR OFF YOUR ELECTRIC LIGHTS
LIFT SAFETY CATCH AND WRINGER WILL SWING OVER YOUR LAUNDRY TUBS AND LOCK IT IN FIVE DIFFERENT POSITIONS
COVER TO CYLINDER SHOULD BE SECURELY FASTENED IN PLACE BEFORE STARTING MACHINE
SAFETY KNOB ON REVERSING MECHANISM PREVENTS LOCKING OF THE MACHINE CYLINDER REVERSES EVERY 7 REVOLUTIONS
SPECIAL PULLEY ON MOTOR SHAFT CAN BE USED TO RUN ICE CREAM FREEZER, SEWING MACHINE, ETC.
MOTOR IS QUARTER H P WESTINGHOUSE CONTINUOUS DUTY MOTOR WILL OPERATE BOTH CYLINDER AND WRINGER AT THE SAME TIME.

Body all metal, double seamed, smooth finish at top and inside, 1 piece cover with handle. **Painted** 3 coats in white enamel. **Cylinder** white maple, smooth, easily cleaned and sanitary, revolves 6 times and reverses without slightest jar. **Wringer** with safety release, swings and locks in 5 different positions, best quality 11 in power electric rubber rolls. Washer and wringer may be operated at the same time or either one separately. **Westinghouse Motor,** ¼ horsepower, 110 volts, 60 cycle, **alternating** current. **Direct** current can be furnished at a slight delay. BE SURE TO SPECIFY whether for alternating or direct current, voltage and cycle wanted.

W3710 — Galvanized steel body, capacity 6 sheets. Crated, 260 lbs. Each, **$102.00**

W3711 — Copper body, capacity 6 sheets. Crated, 260 lbs. Each, **$124.00**

ALAMO TYPE M GASOLINE AND DISTILLATE ENGINES WITH PORTABLE SAWING RIGS

MOUNTED ON STEEL TRUCKS

4½, 6½, 9 H. P.

Back View

Front View

Equipped with No. 41 all steel sliding table, unless ordered with swing table.

The engines used on these sawing outfits are the regular Alamo Type M.

Truck—The same specifications apply to the truck as with the mounted engine, only the channel beams are made longer to receive the saw frame. These channel beams are 10 feet long, thus enabling the use of a belt of sufficient length. Wheel base, 7 feet, 10 inches.

Saw Frame—Steel sliding table styles firmly bolted to the channel beams. It will take a saw blade up to 30 inches in diameter. The saw arbor is 1½ inches in diameter. The pulley on the same is 6x6 inches. Saw blades furnished with each outfit, belting is included. If required, the saw frame can easily be removed from the channel beam, so that the engine can be used for other work. Equipped regularly with 26-inch saw.

Equipment—The engine is furnished with the same equipment as with the Alamo Type M mounted engines.

Pulleys—Engines are supplied with friction clutch pulley of suitable diameter, which gives the saw the proper speed.

Specifications and Equipment

For portable outfits equipped with kerosene engines add difference in price of engine.

	W	X	U
Outfit No.			
Horsepower	4½	6½	9
Crankshaft, inch	1¾	2	2½
Speed	385	360	300
Shipping weight, lbs.	2000	2500	3300
With Webster Magnetos			

ALAMO TYPE M GASOLINE AND DISTILLATE PORTABLE ENGINE OUTFITS

4½, 6½, 9, 12 AND 15 H. P.

The above illustration is of the 4½, 6½, 9, 12 and 15 horsepower Alamo gasoline and distillate engines, which are the favorite sizes for use in ordinary farm work. All kinds of work can be done, from the running of a pumping plant to the operating of a wood saw or ensilage or feed cutter. These engines may be run on a minimum amount of fuel and yet have power enough for all but the heaviest class of farm machinery. For an all-round purpose engine there is nothing better made than the Alamo Type M distillate or gasoline engine.

The above engines have been pronounced by the best critics as being the most perfect engine yet produced for general utility purposes. Its perfect balance, ease of starting in all kinds of weather, and its simplicity and substantial construction is best appreciated by those who have used these engines under the most severe conditions.

Trucks—Made completely of steel and fully guaranteed; channel beams carrying engines very stiff and rigid; axles made of one piece of solid steel.

All mounted outfits are shipped with pole, but singletrees and doubletrees are not included.

Pulleys—Regular equipment includes plain, solid pulleys. Friction clutches are extra if desired. See page 5565.

4½, 6½, 9, 12 and 15 H. P. Portable Outfits, Specifications and Equipment.

Horsepower	4½	6½	9	12	15
Diameter crankshaft, inch	1¾	2	2½	3	3
Speed	385	360	300	280	280
Pulley, diameter, inch	10	12	18	20	22
Pulley, face, inch	6	8	8	10	10
Size exhaust pipe, inch	2	2½	2½	2½	3
Shipping weight, lbs.	1600	1800	2400	3200	3900

Alamo Type M portable engines are regularly equipped without extra charge with muffler attached, Webster oscillating magneto, wrenches, oilers, oil can and can of gas engine oil. Small sizes have fuel tank in the base of the engine of sufficient capacity for one day's run. 12 horsepower and 15 horsepower engines are supplied with 60 gallon outside fuel tank. **All sizes furnished with iron pulley.**

ALAMO TYPE M PORTABLE GASOLINE AND DISTILLATE ENGINE SPRAY OUTFIT

For specifications see page 5545.

For portable outfits equipped with kerosene engines add difference in price of engine.

RAIL BENDERS

WITH LEVER BAR

Wrought Steel, with Machine Cut, Square Thread Screw

Nos.	1	2	3	4
For Rails, Lbs.	25	50	68	90
Span to Center of Claws, In.	19	23	27	33
Diameter of Screw, In.	2	2¼	2½	2¾
Weight, Lbs.	67	88	145	250
Each	$22.00	30.00	36.00	54.00

CAR MOVERS

CHAMPION

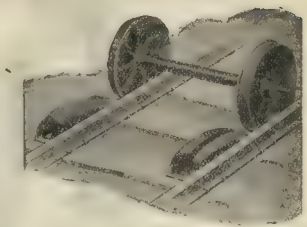
Will Work on Any Style of Wheel and Between Cars, getting its purchase from the Rail to the Wheel. Will Not Slip on Ice or Grease.

Each

Champion—All Steel Bar, with Adjustable Hardened Steel Spur; Length, Over-All, 5 Ft. $3.50

Extra Spurs for the Champion Car Mover; Triangular in Shape ..... .50

CAR REPLACERS



ALDON

Will Quickly Re-Rail Cars or Locomotives; Can be Handled by One Man

Per Pair

No. 1—Cast Steel, for Heaviest Equipment and Rails of 100 Lbs. or Less; Weight per Pair, 190 Lbs. $36.00

No. 2—Cast Steel, for Modern Equipment and Rails of 85 Lbs. or Less; Weight per Pair, 170 Lbs. 30.00

No. 3—Malleable Iron, for Electric Suburban Service, Light Engines and Cars, and Rails of 70 Lbs. or Less; Weight per Pair, 100 Lbs. 24.00

No. 4—Malleable Iron, for Industrial and Mine Railways, for Equipment not Exceeding 15 Tons and for Rails of 35 Lbs. or Less; Weight per Pair, 60 Lbs. 20.00

CAR MOVERS

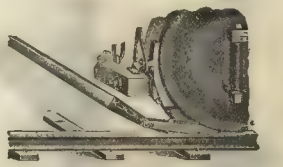
NEW BADGER

The New Badger has a Quick Acting Compound Leverage that Will Move the Heaviest Loaded Cars, and Will Move and Follow up Empty Cars with Remarkable Speed; It is Light, Well Balanced and is made of Cast Iron, Malleable Iron with Special Tool Steel Never-Slip Double Concave Spurs, which Grip the very corners of the Rail where it is soft and when pressure is brought to bear on the Handle will grip the rail firmly and cannot slip even when the spurs are dulled by long wear.

Each

New Badger—Black Japanned Malleable Iron Socket and Shoe, Special Tool Steel Spurs; Maple Handle; Varnished; Length, Over-All, 62½ In. $5.00
Weight, 15 Lbs.

Extra Handles $1.00
Extra Spurs ..... .40



ATLAS

Pressing down on handle **acts on the car wheel so far from its contact with the rail that the moving force is utilized to roll it forward, instead of wasted** in an effort to raise it from the track.

Will move a car further at a stroke, and with less effort, than any other Car Mover. It gets under the lowest brakes. The metal parts are Malleable Iron and Steel, and are guaranteed. Any Castings broken in ordinary use, within six months from date of Invoice, will be replaced free of charge.

Atlas Malleable Iron Socket and Shoe; Best Tool Steel Spur; 7⅛ In. Socket, 15 In. Lever; Hard Maple Handle, 2⅝ In. Diameter, 4 Ft. Long; Extreme Length, 64 In. $5.00
Weight, 16 Lbs.

Extra Handles $1.00
Extra Spurs ..... .40

JACK SCREWS

LOCOMOTIVE

Wrought Iron Screw, Cast Iron Stand

Diameter of Screw, In.	1½	1¼	1½	1⅝	1⅞	1¾	1¾	2	2	2	2
Height, Stand, In.	6	8	10	12	8	10	12	14	8	10	12	14
Height Overall, In.	9	11	13	16	11¼	13½	15½	17½	11½	14	16	18
Capacity, Tons	12	12	12	12	16	16	16	16	20	20	20	20
Weight Each, Lbs.	13	15	19	20	18¼	22	27	30	33	38	30	36
Each	$3.75	4.25	4.75	5.35	5.60	5.75	6.25	6.75	6.00	6.75	7.50	8.25

Diameter of Screw, In	2	2½	2½	2½	2½	2½	2½	2½	3'	3	3
Height, Stand, In.	16	14	16	16	12	16	16	20	16	20	24
Height Overall, In.	20	18	20	22	16	20½	22½	24	21	25	29
Capacity, Tons	20	24	24	24	28	28	28	28	36	36	36
Weight Each, Lbs.	41	38	41	40	40	50	53	62	73	90	110
Each	$9 25	10.00	11 00	12 00	10.75	13.25	14.50	15.75	20.75	23.25	25.75

In Ordering Locomotive Jacks, Give Diameter and Height of Stand

RATCHET JACKS

DUFF GENUINE BARRETT, AUTOMATIC LOWERING

Made of the Very Highest Grade Material; Works to the capacity moving its load up or down easily, swiftly and safely. Will operate at any angle. The load is lowered gradually and cannot be suddenly dropped as with trip jacks. The direction of the jack is controlled by an eccentric at the side of the frame.

FIVE TON, DOUBLE ACTING

Adapted to the Rapid Handling of Mining Machinery, Mine Cars, Agricultural Machinery, and Light and Narrow Gauge Track.

No.	50
Capacity, Tons	5
Height, In.	18
Raise of Bar, In.	8
Size of Bar, In.	1¼
Weight, Lbs.	35
Each	$16 00

TEN TON, DOUBLE ACTING

Used by Contractors, Truckmen, Industrial Concerns, Street Railway Companies and others requiring a jack suitable for all general Lifting purposes.

No.	2
Capacity, Tons	10
Height, In.	21
Raise of Bar, In.	10
Size of Bar, In.	1¾x1¾
Weight, Lbs.	73
Each	$25.00

FIFTEEN TON, DOUBLE ACTING

Built for Heavy Service; The Lifting Bar is Heavy with All Working Parts in proportion.

No.	4
Capacity, Tons	15
Height, In.	22
Raise of Bar, In.	10
Size of Bar, In.	2x2
Weight, Lbs.	106
Each	$35 00

FIFTEEN TON, SINGLE ACTING

Especially adapted to Lifting Lightly Loaded or Empty Freight Cars.

Raises and Lowers on the Downward Stroke of Lever Only.

No.	219
Capacity, Tons	15
Height, In.	28
Raise of Bar, In.	17½
Size of Bar, In.	2¼x1¾
Weight, Lbs.	98
Each	$40.00

SOCKET WRENCH SETS
ALLEN FRICTION

Wrench made of steel drop-forgings, nickel plated throughout. Its simplicity is obvious. The handle operates directly against a revolving socket in the head, without use of ratchet, springs, pawls, balls, etc. By means of the long and short extension pieces the sockets, which are pressed steel, specially heat treated and hardened, are attached to the socket in the wrench head. The wrench can be used in small spaces where a ratchet would be useless as the slightest movement of the handle acts on the socket instantaneously.

SET NO. 9

For small runabouts, motor boats, etc.

1 10-inch Allen friction wrench.
1 1⅞-inch short extension.
1 8⅞-inch long extension.
1 29/32-inch spark plug socket.
8 sockets, 1 each of the following hexagon sizes: 15/32, 17/32, 19/32, 11/16, 23/32, 25/32, 31/32 and 1-5/32-inch.

Set No. 9—In hardwood box.
Wt. each, 3¼ lbs. . . Each $9.50

SET NO. 29

Sets No. 29 differs from No. 9 in that they contain a universal —double swivel— joint, making it possible to apply the wrench in almost any position, a screwdriver and a large variety of sockets. The screwdriver fits directly into the socket in the wrench head.

Set No. 29—In hardwood box. Weight each, 4 lbs.
Each $8.50

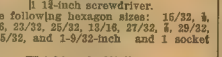
SET NO. 21

For touring cars, trucks, etc.

1 10-inch Allen friction wrench.
1 1⅞-inch short extension.
1 7⅛-inch long extension.
1 29/32-inch spark plug socket.
1 universal joint.
1 1⅛-inch screwdriver.
20 sockets, 1 each of the following hexagon sizes: 15/32, ½, 17/32, 19/32, ⅝, 21/32, 11/16, 23/32, 25/32, 13/16, 27/32, ⅞, 29/32, 31/32, 1, 1-1/32, 1-3/32, 1-5/32, and 1-9/32-inch and 1 socket 17/32-inch square.

Set No. 21—In hardwood box.. Weight each, 6¼ lbs.
Each $13.00

STICKIT



Consists of a double ended ratchet wrench, with seven strong stamped steel sockets strung on a square steel shank. One end of the wrench fits the shank, the other, the sockets. Exceedingly compact and practical set. Will fit the following sizes of nuts and cap screws: Hexagonal, 1-⅛, 1-¼, ⅜, ½, ⅝, ¾, ⅞. Square, ¼, ⅜, ½.

No.	8
Length, inch	14
Weight each, lbs.	2¼
Each	$4.00

In canvas case.

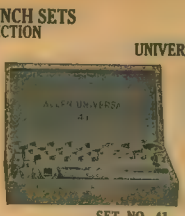
K. & S. RATCHET

A strong, compact light tool, operating in close quarters where heavier wrenches would be useless. Forged steel wrench. Ratchet reversed by moving pawl from one side to other without removing tool from work. Case hardened sockets. Tool steel screwdriver bits.

1 7-inch wrench handle.
1 6-inch extension bar.
2 screwdriver bits.
7 sockets for bolts and nuts, 5/16 to ⅝-inch, inclusive.

Set No. K8—In compact, strong black cloth case with snap fastening cover. Weight each, 1¾ lbs. . . . . Each $4.50

UNIVERSAL



Wrench made of best steel drop-forging, all parts hardened. The head contains a ratchet action, ball or universal point or socket which permits use of the handle in many positions. The extra universal double swivel joint contained in the set makes it possible to use the wrench almost anywhere. Sockets are pressed steel, specially heat treated and hardened and are attached by means of the extension pieces.

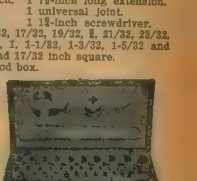
SET NO. 41

For touring cars, trucks, etc.

1 8⅞-inch Allen universal wrench.
1 1⅞-inch short extension.
1 29/32-inch spark plug socket.
1 7⅛-inch long extension.
1 universal joint.
1 1⅛-inch screwdriver.
20 sockets, 1 each ⅜, 13/32, 15/32, 17/32, 19/32, ⅝, 21/32, 23/32, 25/32, 13/16, 27/32, 29/32, 21/32, 1, 1-1/32, 1-3/32, 1-5/32 and 1-9/32 inch hexagon, and 13/32 and 17/32 inch square.

Set No. 41—In substantial hardwood box.
Weight each, 6½ lbs. Each $12.00

SET NO. 31



For touring cars, trucks, etc

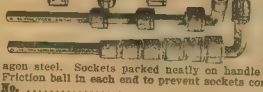
Contents

1 10-inch Allen friction wrench.
1 1⅞-inch short extension.
1 9⅞-inch long extension.
1 29/32-inch spark plug socket.
1 universal joint.
1 1⅛-inch screwdriver.
Thirty sockets, 1 each of ⅜ hexagon, then in 32nds to and including 1-⅛, also 1-⅛, 1-¼, 1-⅜ hexagon, and ½, ⅝ and ¾-inch square.

Set No. 31—In substantial hardwood box. Weight each 7¼ lbs. . . . . Each $16.00

All Allen sets are packed in varnished hardwood hinged chests.

HEXALL

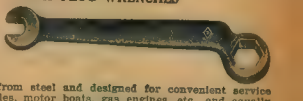


Comprises seven steel sockets, ⅜ to ¾-inch. Made from bar steel, case hardened. Handle made from ½-inch hexagon steel. Sockets packed neatly on handle when not in use. Friction ball in each end to prevent sockets coming off.

No.	H
Size of handle, inch	½x10
Weight each, lbs.	1½
Each	$3.00

SPARK PLUG WRENCHES

WILLIAMS



Semi-finished

Drop-forged from steel and designed for convenient service about automobiles, motor boats, gas engines, etc., and equally adaptable for use upon flush or depressed plugs.

Nos.	993	993 A	994
Box end, opening broached, inch	⅞	1⅛	1
Open end, opening milled, inch	⅞	1⅛	⅞
Length, inch	8	8	8¼
Weight each, lbs.	⅝	⅝	⅝
Each	$0.75	.75	1.00

Six in cardboard box

ALVORD REAMERS

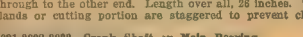
SPECIAL FOR FORD CARS

New No. 2713-2714, Old No. 211—Ford Spindle and Spindle Arm Bushing Reamer. This reamer is made to ream these bushings in perfect alignment at one operation. The long section is for the spindle body bushing and the short portion is for the spindle arm bushing. Straight flutes. Weight each, ¾ lb.

Each $3.00

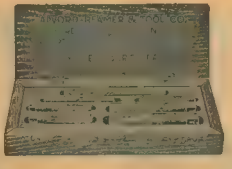
This reamer is designed to ream the three bushings of the crankshaft at one operation and by this means saves two-thirds of the time in reaming. It is absolutely necessary to use a tool of this design to secure perfect alignment of the bearings. In operation, be sure to ream the three bushings at the same time instead of running the reamer from one end of the crankshaft through to the other end. Length over all, 26 inches. The three lands or cutting portion are staggered to prevent chattering.

Nos. 3031-3032-3033—Crank Shaft or Main Bearing Bushing Reamer ..... Each $22.50



These reamers are made the exact size necessary for the different parts, and will be found very convenient and highly useful tools for the garage. Fully guaranteed as to material and workmanship. Each reamer is marked with corresponding Ford bushing number.

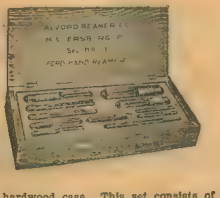
No. 2525B—Differential Pinion Bushing	Each	$3.00
No. 2527—Differential Spider Bushing	"	4.75
No. 2540—D. S. Housing Front Bushing	"	4.50
No. 2559—Hub Cam Shaft Bushing	"	2.75
No. 3022½—Wrist Pin	"	3.50
No. 3042—See Reamer 3042-3044-3045.		
No. 3042-3044-3545—This Reamer takes care of the three bushings below, as they are the same size.		
No. 3042—Cam Shaft Front Bearing		
No. 3044—Cam Shaft Rear Bearing	"	3.50
No. 3545—Steering Post Bracket Bushing		
No. 3044—See Reamer No. 3042-3044-3545.		
No. 3052X—Valve Stem Bushing Reamer	"	2.50
No. 3059½—Push Rod Bushing Reamer	"	3.00
No. 3309—Slow Speed Gear Bushing Reamer	"	9.50
No. 3311—See Reamer No. 3311-3320B.		
No. 3311-3320B—This Reamer takes care of the two bushings below, as they are the same size.		
No. 3311—Brake Drum Assembly Bushing		
No. 3320B—Driven Gear Sleeve Bushing	"	6.00
No. 3320B—See Reamer No. 3311-3320B.		
No. 3320C—See Reamer No. 3320C-3327B.		
No. 3320C-3327B—This Reamer takes care of the two bushings below, as they are the same size.		
No. 3320C—For Driven Gear Sleeve		
No. 3327B—For Driving Plate Bushing	"	5.50
No. 3327B—See Reamer 3320C-3327B.		
No. 3521—Steering Gear Pinion Bushing	"	2.50
No. 3545—See Reamer No. 3042-3044-3545.		
No. 3820-3844—See Reamer 3820-3844.		
No. 3820-3844—This Reamer takes care of the two bushings below, as they are the same size.		
No. 3820—Front Spring Perch Bushing		
No. 3844—Rear Spring Perch Bushing	"	2.75
No. 3844—See Reamer 3820-3844.		



No. 13—Set in hardwood case. This set consists of 7 reamers used in making general repairs to Ford automobiles and fits numbers of bushings as follows:

No. 2713-14—Spindle and spindle arm bushing.
No. 2540—D. S. front housing bushing.
No. 3820-3844—Front and rear spring perch bushing.
No. 3042-3044-3545—Cam shaft bearings and steering post bracket bushings.
No. 2559—Hub cam shaft bushing.
No. 3059½—Push rod bushing.
No. 3022½—Wrist pin or piston pin bushing.

Per set $23.00



No. 11—In hardwood case. This set consists of 11 reamers used most in garages and fits numbers of bushings as follows:

No. 2525B—Differential pinion bushing.
No. 2527—Differential spider bushing.
No. 2540—D. S. front housing bushing.
No. 2559—Hub cam shaft bushing.
No. 3044-3042-3545—Rear and front cam shaft and steering post bracket bushing.
No. 3309—Slow speed gear bushing.
No. 2713-14—Ford spindle and spindle arm bushing.
No. 3022½—Wrist pin or piston pin bushing.
No. 3314½—Transmission gear bushing.
No. 3521—Steering gear pinion bushing.
No. 3820-3844—Front and rear spring perch bushing.

Per set $45.00

FORD REAMER SETS

No. 14 (Old No. 8)—In hardwood case. Contains one each of the following:

No. 2713-14—Ford spindle and spindle arm bushing.
No. 3314½—Transmission gear bushing.
No. 3022½—Wrist pin or piston pin bushing.

Per set $10.00

"AMERICAN FLYER" MECHANICAL TRAINS

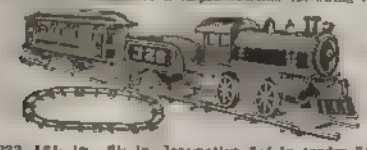
"The Train With a Guarantee"

Made in U. S. A. of the highest grade materials. Cars are reproductions of the latest American railroad equipment. Every feature of construction carefully tested. Backed by the universal guarantee of a straight, reliable manufacturer. New models. Springs adjusted to proper strength to avoid jumping track and yet obtain maximum speed. Latest chief device and exclusive feature of these trains prevents breaking of springs from overwinding. Many improvements have made of trouble experienced with American Flyer trains in the past. Each engine bottom is fitted with a screw to adjust the armature so that it will run smoothly. Other improvements, including bushings in frames, wide steel pilot wheels, steel jump track, curved over rubber wire, new and improved track sporting. Motors have hardened steel pinion gears, which also many times harder than brass gears. Made by AMERICAN FLYER TRAINS are the best of other mechanical imperfections. Each set in sealed, dustproof colored cardboard box.

"Made in America" American Flyer

The Train with the Guarantee — Registered U.S. Patent Office — MINIATURE RAILROADS

All "American Flyer" trains are guaranteed against defective, imperfect items.



F3222—16½ in., 6½ in. locomotive, 8¼ in. tender 8¼ in. passenger car 8 sections oval track, 32 in. circumference. 1 set in box. Set. **$1.45**

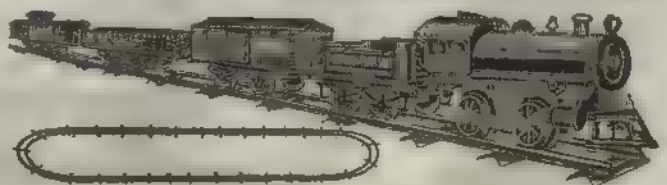
F3224—24 in. EXTRA LARGE track EQUIPMENT 11 sections of track and curved with CROSSOVER forming figure of 8 in circle. 6¾ in. engine, 4 in. tender 6½ in. passenger and baggage cars with sliding doors. 1 set in box. Set **$2.50**

F3223—18 in., 6½ in. speed governed engine 4 in. tender 6½ in. parlor car, 10 sections track, oval 108 in. circum. 1 set in box. Set. **$1.85**

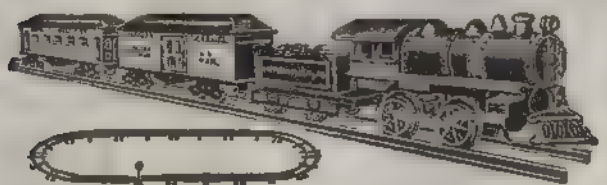
F3223—24 in., 6½ in. speed governed engine, nickeled piston rods, brake 4 in. tender 6½ in. baggage and passenger cars, 10 sections track, oval 108 in. circum. 1 set in box. Set. **$2.00**

F3230—24½ in., 6½ in. speed governed engine, nickeled piston rods, brake 4 in. tender 6½ in. passenger and baggage cars, 12 pieces curved and straight track, switch, oval and circle length of track 168 in. 1 set in box. Set. **$3.00**

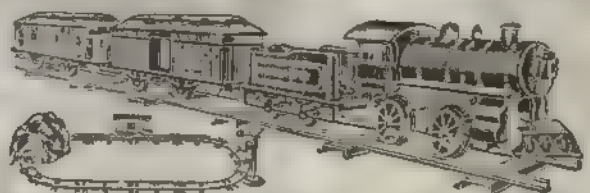
F3228—26½ in., extra LARGE CARS and EXTRA EQUIPMENT. 12 sections curved and straight track forming oval 134 in., 2 single arm SEMAPHORES 6¾ in. speed governed engine, piston rods, brake, 4 in. tender, 6½ in. passenger and baggage car with sliding doors. 1 set in box. Set **$2.75**



F3213—34 in., 6¾ in. speed governed engine, nickeled piston rods, brake 4 in. tender 6½ in. box car with 4 big doors, stock car and caboose. 12 pieced curved and straight track forming oval 108 in. circum. 1 set in box. Set **$2.75**



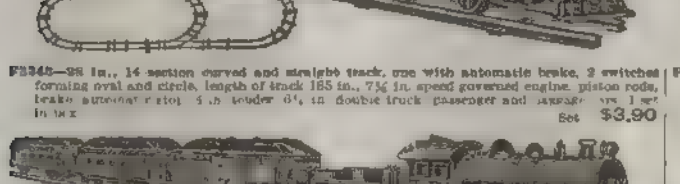
F3229—27 in., 12 sections curved and straight track with automatic stop, forming oval 114 in. circum. Largest 7¼ in. speed governed engine, piston rods, brake and AUTOMATIC STOP, 4 in. tender, 6½ in. passenger and baggage car with sliding doors, free swinging DOUBLE TRUCKS and disappearing couplers. 1 set in box. Set **$3.40**



F3219—27 in., 12 sections curved and straight track forming oval 114 in. circum. 1 large paper mache TUNNEL painted to represent mountain scene, 2 steel SEMAPHORES, nickel plated piston rod brake, AUTOMATIC STOP, 6¾ in. engine, 4 in. tender, 6½ in. passenger & baggage car with SLIDING doors. 1 set in box. Set. **$3.25**

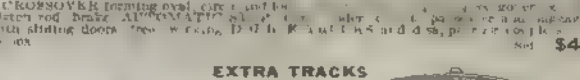
F3245—28 in., 14 section curved and straight track, one with automatic brake, 2 switches forming oval and circle, length of track 185 in., 7¾ in. speed governed engine, piston rods, brake automatic stop, 6½ in. tender, 6¼ in. double truck passenger and baggage cars, 1 set in box. Set **$3.90**

F3239—28 in., 18 sections curved and straight track, 1 automatic brake section, 2 SWITCHES, 1 CROSSOVER forming oval, circle and figure 8, length of track 252 in., 7¾ in. speed governed engine, piston rods, brake AUTOMATIC STOP, 6½ in. tender, 6¼ in. passenger and baggage car with sliding doors, free wheeling DOUBLE TRUCKS and disappearing couplers, 1 set in box. Set **$4.65**



F3235—33½ in., 7¾ in. speed governed engine, piston rods, brake, automatic stop, 6½ in. tender, double truck passenger & baggage cars, 1 set in box. Set **$7.35**

EXTRA TRACKS



For American Flyer, Hummer and practically all mechanical trains. Length of each machine cut graded tracks, substantially made.

Straight—
F3246—1 doz. in box . . . . . Doz. **75c**

Curved—
F3247—1 doz. to box . . . . . Doz. **75c**

TURN YOUR STOCKS OFTEN The backbone of your profits is in [illegible] from the biggest selling [illegible]

"HUMMER" MECHANICAL TRAINS

Built by the foremost toy train maker in America. These trains carry the guarantee of the "American Flyer" trains, but are constructed by the same skilled workmen, a guarantee that the defects of low priced imported trains have been entirely eliminated. [illegible] metal, black enameled. Clock works have a strong steel spring which pulls. The Hummer at a great speed. Cars are made in one piece, giving great strength. Attractively decorated in green and yellow.

F3220—14 in. steel locomotive, tender and 1 car, 4 pc. 60 in. circular track, ½ doz. sets in partition box. Doz. sets. **$11.25**

F3215—18½ in., 8 pcs. curved and straight track, forming oval 91½ in. circum., steel locomotive, tender and 2 cars. ½ doz. sets in box. Doz. sets. **$14.00**

F3216—15 in., 4 pcs. curved track, each 15 in. long steel locomotive, tender, one passenger car STATION, single arm SEMAPHORE. ½ doz. sets in box. Each **$1.35**

MECHANICAL TOYS AMERICAN MANUFACTURE

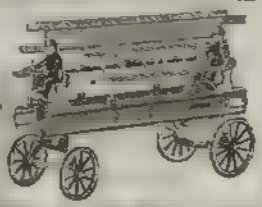
Live sellers, including all of the old popular standards and many new novelty numbers. The excellent action and good construction attract and retain attention, if they are put on display. Regardless of increased costs, these prices are comparatively low

Tip Top Porter—#2... [illegible] with [illegible] Each set in box. Doz. $4.25

Armed Tank—Jointed, wood automobile type. Metal axles. Metal wheels. Spring action barrels and wheels move forward and backward. Gun may be turned from side to side. When operated gun makes loud noise and discharges powder in box. Each $1.15

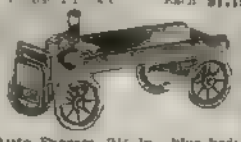
Fire Engine—[illegible] gilt boiler and fire box, silver trim, yellow body, red wheels, imitation rubber tires, rods, concealed springs. [illegible] in box. Each $1.40

Over and Under Auto Toy—[illegible] 5½ long in the [illegible] railway, steel [illegible] in black or colors, [illegible] axles, [illegible] rear axle, [illegible] and [illegible] to [illegible] and back to [illegible] [illegible] repeats several [illegible] with [illegible] each in box. [illegible] Each 95c

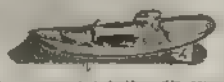


Hook & Ladder—[illegible] in long, hickory, [illegible] with [illegible] yellow wheels, rubber tires, rear [illegible] spun, driver and [illegible] [illegible] in. and one in. [illegible] Each $1.50

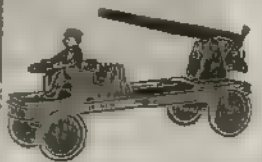
Trick Auto—[illegible] latest [illegible] [illegible] ing car [illegible] the [illegible] [illegible] [illegible] wheels, [illegible] makes auto stand on back end, [illegible] [illegible] of [illegible] [illegible] each in box. [illegible] box. Doz. $4.50



Auto Express—9½ in., blue body, yellow wheels, gilt trim, concealed spring [illegible] in box. [illegible] dozen in box Doz. $8.95



Steam Launch. Gray enameled hull, gilt trimmed bow and stern, nickel plated horizontal boiler, spring action, cylinder head, steel propeller and shaft, alcohol tank and burner. Each in box, in shipping carton [illegible] Each, $2.00 [illegible] Temp out



Artillery Truck—[illegible] in. long gray steel body, red cartridge carrier, [illegible] in solid wheels with adjustable black steel cannon, wood protector, chauffeur shows long distance [illegible] speeds. P3281—1 in box Each $1.50

Auto Dump Cart—[illegible] blue painted steel chassis and body, yellow wheels and driver, concealed [illegible] [illegible] in box. [illegible] doz. in box Doz. $8.95

MECHANICAL TOY AUTOS

Very popular sellers that pay good profits. Finished in a superior manner.

Bright [illegible] body, open [illegible] wheels, [illegible] and [illegible] strong [illegible] [illegible] [illegible]

REVOLVING SCREW CASES

AMERICAN

Octagon Shape; Made of Poplar Wood, Cherry Stained and Varnished, Wood Drawers; Top Part Revolves on Base; Drawers are all provided with Stops to prevent their removal from the case.
Each Drawer holds a Package of Screws of the Size and Number Stenciled on the front of Drawer and is Fitted with a Porcelain Knob

Size of Drawers Inside: Width at Front, 6¼ in.; Width at Back, 1⅛ in.; Depth, 5¾ in., Height at Front, 2½ in.

Each

No. 1—72 Drawers; Height 33 in.; Width 21 in.; Depth 21 in.; Weight Each about 80 Lbs. $33 00

No. 1 Screw List

One-Half Inch—3, 4, 5, 6, 7
Five-Eighth Inch—5, 6, 7, 8
Three-Fourth Inch—5, 6, 7, 8, 9.
Seven-Eighth Inch—7, 8, 9, 10.
One Inch —6, 7, 8, 9, 10, 11, 12, 13, 14.
One and One-Quarter Inch—7, 8, 9, 10, 11, 12, 13, 14, 15.
One and One-Half Inch—8, 9, 10, 11, 12, 13, 14, 15, 16.
One and Three-Quarter Inch—9, 10, 11, 12, 13, 14, 15, 16, 17.
Two Inch—10, 11, 12, 13, 14, 15, 16, 17, 18.
Two and One-Half Inch—12, 13, 14, 15, 16.
Three Inch—16, 18, 20, 22.

Each

No. 2—80 Drawers; Height 36 in., Width 21 in.; Depth 21 in.; Weight each about 85 Lbs. $37 50

No. 2—Screw List

Three-Eighth Inch—2, 3, 4.
One-Half Inch—3, 4, 5, 6, 7.
Five-Eighth Inch—4, 5, 6, 7, 8.
Three-Fourth Inch—4, 5, 6, 7, 8, 9, 10.
Seven-Eighth Inch—5, 7, 8, 9, 10, 11.
One Inch—6, 7, 8, 9, 10, 11, 12, 13, 14.
One and One-Quarter Inch—7, 8, 9, 10, 11, 12, 13, 14, 15.
One and One-Half Inch—8, 9, 10, 11, 12, 13, 14, 15, 16.
One and Three-Quarter Inch—9, 10, 11, 12, 13, 14, 15, 16, 17.
Two Inch—10, 11, 12, 13, 14, 15, 16, 17, 18.
Two and One-Half Inch—12, 13, 14, 15, 16.
Three Inch—16, 18, 20, 22.

Size of Drawers Inside: Width at Front, 7¾ in.; Width at Back, 1¾ in.; Depth, 6¾ in.; Height at Front, 2½ in.

Each

No. 3—88 Drawers; Height 39 in.; Width 24 in.; Depth 24 in.; Weight Each about 90 Lbs. $42 00

No. 3—Screw List

One-Fourth Inch—1, 2.
Three-Eighth Inch—2, 3, 4, 5.
One-Half Inch—3, 4, 5, 6, 7.
Five-Eight Inch—4, 5, 6, 7, 8, 9
Three-Fourth Inch—4, 5, 6, 7, 8, 9, 10.
Seven-Eighth Inch—6, 7, 8, 9, 10, 11, 12.
One Inch—6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
One and One-Quarter inch—7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
One and One-Half Inch—8, 9, 10, 11, 12, 13, 14, 15, 16.
One and Three Quarter Inch—9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
Two-Inch—10, 11, 12, 13, 14, 15, 16, 17, 18.
Two and One-Half Inch—12, 13, 14, 15, 16.
Three Inch—16, 18, 20, 22.

Each

No. 4—96 Drawers; Height 42 in.; Width 25 in.; Depth 24 in.; Weight Each about 95 Lbs. $46 00

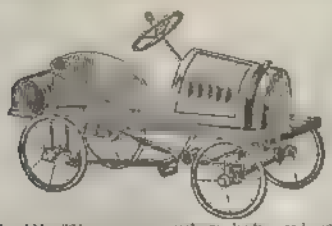
No. 4—Screw List

One-Fourth Inch—1, 2.
Three-Eighth Inch—2, 3, 4, 5, 6.
One-Half Inch—3, 4, 5, 6, 7, 8.
Five-Eighth Inch—4, 5, 6, 7, 8, 9, 10, 11.
Three-Fourth Inch—4, 5, 6, 7, 8, 9, 10, 11, 12.
Seven-Eighth Inch—6 7 8 9 10 11 12.
One Inch—6 7, 8, 9, 10, 11 12 13 14 15 16.
One and One-Quarter Inch—7 8, 9, 10, 11, 12, 13, 14, 15.
One and One-Half Inch—8, 9, 10, 11, 12, 13, 14, 15, 16.
One and Three-Quarter Inch—9 10, 11, 12, 13, 14, 15, 16, 17.
Two Inch—10, 11, 12, 13, 14, 15, 16, 17, 18.
Two and One-Half Inch 12, 13, 14, 15, 16.
Three Inch—16, 18, 20, 22.
Three and One-Half Inch—16, 18, 20.

TOY AUTOS

Distinctive and original models. Manufactured by the American National Co., originators of Juvenile Automobiles.

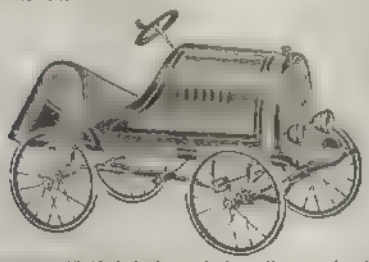
Considering the abnormal costs of materials and labor these prices are well worth consideration **Compare!**



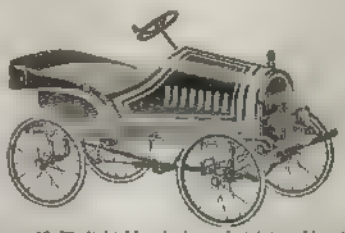
"Star" 34x19½ canary yellow body red seat and [illegible] gear wood rim steering wheel gas and spark control bumper nickel plated hub caps, 8 in double spoke wheels ⅝ in rubber tires
P226—1 in crate 30 lbs . . . . Each **$7.25**

"Hornet" 1x39 red body wood yellow panels striped [illegible] yellow radiator front 12 in double spoke wheels ½ in rubber tires knuckle-joint gear gas and spark control bumper nickel plated hub caps
P227—1 in crate 40 lbs . . Each **$9.50**

"Fire Chief" 15x40 gray body red striping 10 in double spoke wheels, ½ in rubber tires, knuckle-joint gear, bumper gas and spark control, nickel plated bell and hub caps racing shaped fenders
P237 1 in crate, 40 lbs Each **$10.00**

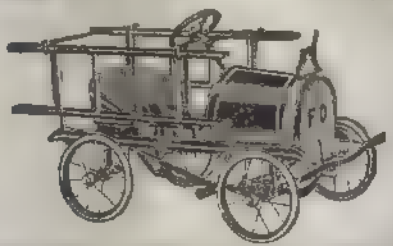


"Empire" 12x40, light brown body, yellow panels, striped in yellow yellow radiator front 12 in. double spoke wheels ½ in rubber tires knuckle-joint gear gas and spark control bumper road lamps motor meter [illegible] hub caps
P [illegible] 1 in crate 42 lbs Each, **$10.50**

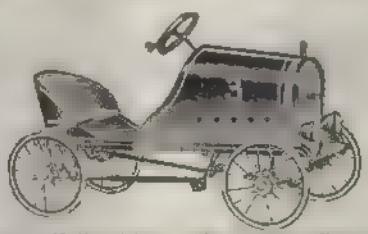


Hudson—12x37, light blue body red striping blue radiator front 12 in. double spoke wheels ½ in. rubber tires knuckle joint gear gas and spark control bumper road lamps, motor meter, imitation leather cloth top, nickel plated hub caps
P229—1 in crate 45 lbs Each, **$12.00**

"Mogul"—12x30 red body blue striping, 10 in double spoke wheels ½ in. rubber tires blue radiator front, knuckle joint gear gas and spark control, bumper, nickel plated windshield and hub caps gas tank, racing shaped fenders
P230—1 in crate 43 lbs . . Each, **$11.50**



Fire Department—1 x30 bright red body chrome yellow striping 10 in double spoke wheels ½ in rubber tires knuckle-joint gear and spark control bumper nickel bell and hub caps bumper knuckle-joint gear and steering wheel gas and spark control
P238—1 in crate 45 lbs Each, **$12.75**

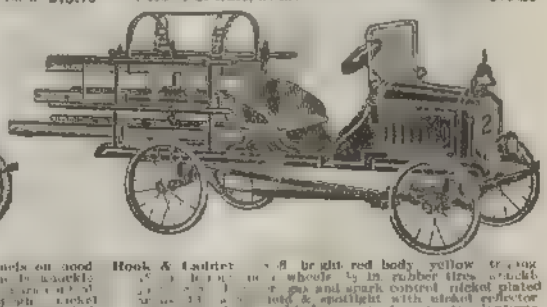


Rambler 13x4[illegible] red body yellow striping yellow radiator front 12 in double spoke wheels ½ in rubber tires knuckle-joint gear wood rim steering wheel gas and spark control, road lamp, front bumper motor meter, large nickel plated hub caps
P231 1 in crate 60 lbs Each **$13.75**

Swift—12x39, red seat and frame with blue hood, red radiator front 12 in double spoke wheels ½ in. rubber tires knuckle-joint gear wood rim steering wheel gas and spark control, nickel plated [illegible] spot-light with nickel reflector rod lamps [illegible] brown fenders, black front bumper [illegible] hub caps
P232—1 in crate, 80 lbs Each **$15.25**

Tandem [illegible]x[illegible] red body light blue stripe [illegible] double [illegible] wheels ½ in rubber tires knuckle [illegible] gas and spark control bumper large nickel [illegible]
P [illegible] in crate 75 lbs Each **$16.75**

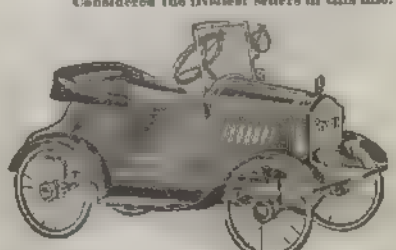
Flat 11x41 silver gray body light blue panels on hood red [illegible] blue wood wheels with knuckle [illegible] wood rim steering wheel gas and spark control tiller [illegible] motor adjustable [illegible] nickel [illegible] rail [illegible] black front bumper [illegible] metal hub caps
P [illegible] 1 in crate 45 lbs Each **$17.75**



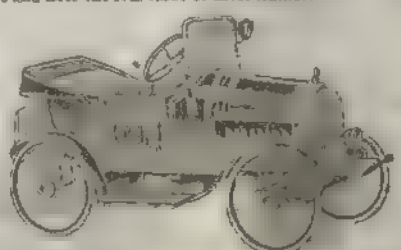
Hook & Ladder [illegible]x[illegible] bright red body yellow trimmings [illegible] wheels ½ in rubber tires [illegible] [illegible] gas and spark control nickel plated [illegible] & spotlight with nickel reflector [illegible] and hub caps, road lamps two lanterns
[illegible] Each **$22.00**

"THE BIG 2" AMERICAN NATIONAL JUVENILE AUTOMOBILES

Considered the liveliest sellers in this line. Read over the descriptions and note the real value of these numbers



"Rover"—18x45½, rich brown body, red striping 12 in [illegible] wheels ½ in rubber tires knuckle-joint gear wood rim steering wheel gas and spark control, road lamps motor meter, nickel plated [illegible] with nickel reflector leather cloth top crown fenders large nickel plated hub caps, black front bumper
P235—1 in crate, 70 lbs Each **$21.00**



"Comet" [illegible] red body [illegible] wheels ½ in rubber tires knuckle-joint gear gas and spark control [illegible] motor meter [illegible] [illegible] seat [illegible] spare wheel [illegible] large nickel plated hub caps, black front bumper
P236—1 in crate, 80 lbs Each **$30.00**

NOVELTY WHEEL TOYS

Dependable and up-to-date sellers. Made by reliable manufacturers who know the correct methods of constructing novelty wheel toys. Every number shown has proven highly satisfactory in giving service to the user and in paying good profits to the merchant. We offer better values. Buy here and be sure of having dependable goods.

THE "OVERLAND" COASTERS

Red enameled, hardwood seat and handle bars, fork, steering gear and wheels are made of the same material; green enameled steel wheels, rubber tires.

Baby Coaster—Length 30 in., ht. 18½ in., ht. of seat 8½ in., seat 14½x7½, wheels 8 in., 8 spokes, ¾ in. rubber tires.
2 in carton, 10 lbs. Each $2.35
Total $4.70)

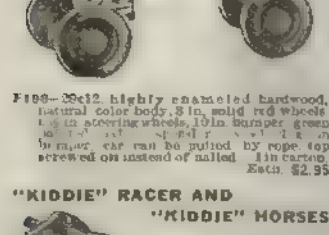
Coaster—Length 34 in., ht. 32 in., ht. of seat 11 in., seat 20x11½, wheels 8 in., 8 spokes, ¾ in. rubber tires.
213—2 in carton, 20 lbs. Each $3.25
(Total $6.50)

"Overland Limited"—Full length 38½ in., ht. of seat 11½ in., of seat 11. Ivory enameled steering gear, frame and fork, 8 in. wheels, ¾ in. rubber tires, foot rest for coaster.
214—2 in carton ..... Each $3.60
(Total $7.20)

COMBINATION AUTO AND COASTER

F198—20x12, highly enameled hardwood, natural color body, 3 in. solid red wheels, 10 in. steering wheels, 10 in. bumper, green enameled steel wheels, 1 in. tires, 10 in. bumper, car can be pulled by rope, top screwed on instead of nailed. 1 in carton. Each $2.95

"KIDDIE" RACER AND "KIDDIE" HORSES



Kiddie Racer—Highly varnished, can be knocked down into a small pkg. ½ doz. in pkg.
F3759—20x17 ..... Doz. $16.00

Kiddie Horses—Heavy 3 ply veneer wood, highly varnished, very durable, cannot tip over, have wheel that will not run, fit on steel axles, making it easy to ride. ½ doz. in pkg.
Doz. $21.00
27.00

"PONY EXPRESS"

F307—30½ in. length 18 in. dapple gray enameled body with red wheels and saddle. ½ doz. in pkg. Doz. $25.00

"CAMEL CAR"

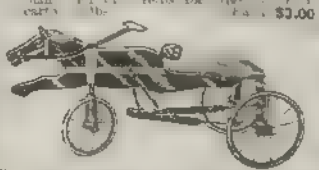
F217—2 finishes, 14 in. long, seat 8 in. high, all wood with bushed wheels, with black painted body, white seat and wheels, with white painted body, red seat and wheels. Asstd. 4 in crate. Each $1.50
(Total $3.00)

"KEY-D" HORSE

F252—Ht. 17 in., length 28 in., seat 11 in. from floor. Made of 1¼ in. white maple, all joints screwed and doweled, all edges highly varnished, painted bridle and mane, four 5½ in. solid wood wheels, painted in black and white, 9 in. steering handle. Each in shipping carton, 15 lbs. Each $2.95

"DAN PATCH" PONY RACER KIDDY HORSES

F857—31 in. long, 19 in. high, 6 in. wide, red enameled wood seat, 11 in. high, wood wheels, black enameled, with red rubber tires for [illegible]. Each $3.00



F858—31 in. long, 17 in. high, 6 in. wide, red enameled wood seat, 11 in. high, 8 in. rubber wheels, both saddle and steering wheels [illegible] and all trims, steering handle [illegible] 40 lbs. Each $6.00
Total $12.00

TODDLE BIKE

F251—Length [illegible], ht. of seat 12½ in., seat of wood body, painted bright [illegible] with [illegible] and black trimmings, [illegible] rear mounting step for children to 5 yrs. 2 in pkg. Each $1.90
(Total $3.80)

GO-CAR

F218—The latest novelty in Go-Car, dog design, length 24 in., height 11 in., highly finished in enameled body white, with black striping, wheels to the seat axle and handle red, seat nicely tinselled in yellow and black. 2 in carton. Each $2.25
(Total $4.50)

"HORSCYCLES"

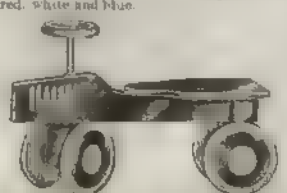
F871—17 in. high, 24 in. long, 7 in. wide, hard maple wheels 4 in. thick, 3 in. wide, [illegible] fitted with 1½ to 3 yrs. of age, in carton about 30 lbs. Each $2.00

F870—22 in. high, 32 in. long, 11 in. wide, for children 2 to 5 years of age, wheels [illegible] 11 in. thick, 4 in. diameter, [illegible] on chrome steel bearings, ½ doz. in carton, about 22 lbs. Each, $3.00

F869—28 in. high, 36 in. long, 11 in. wide, [illegible] of arc rear [illegible] on chrome steel bearings, saddle, rod and [illegible] handle bars, [illegible] ½ doz. in crate. Wt. [illegible] lbs. Each $6.75

"TAD O'BILES"

These auto style toys are tremendously popular and big sellers, attractively finished in red, white and blue.



F854—31x14 in., ht. seat 9 in., 6 in. fancy turned wood wheels, auto steering wheel, body blue, red seat & steering [illegible] white with red trimmings. 3 in crate. Each $1.90
(Total $5.70)

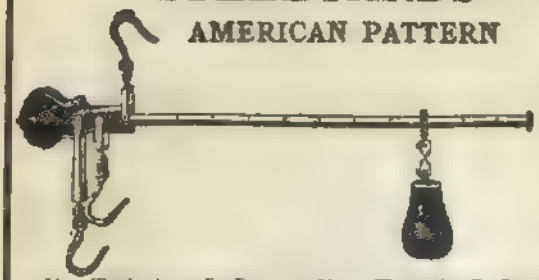
F855—[illegible] Dispatch, 32x18 in., ht. seat 11 in., 6 in. turned wood wheels, heavy [illegible] tool box under seat, [illegible] steering wheel [illegible] Each $3.75
(Total $7.50)

"THE BUDDY BUG"

F225—Length 29 in., well seasoned Wes[illegible] [illegible] with [illegible] to be bare, with [illegible] on solid steel hot [illegible] [illegible] [illegible]

STEELYARDS

AMERICAN PATTERN



Lbs.	Weights by	Per Dozen	Lbs.	Weights by	Per Dozen
50	ozs.	$6 00	150	4 ozs.	$9 00
100	2 ozs.	7.00	200	4 ozs.	10 00
		16.00			24.00
		18.65			26.70

Half dozen in a box

FARMERS' OR HART'S PATTERN

Warranted Correct. Heads and Poises Painted

Lbs.	Weights by	Per Dozen	Lbs.	Weights by	Per Dozen
50	ozs.	$9 00	150	4 ozs.	$12 00
100	2 ozs	10.00	200	4 ozs.	15 00
		24.00			$32.00
		26.70	250	4 ozs.	18 00
					40.00
					48.00

Half dozen in a box.

SCALE BEAMS

Japanned. With Gold Figures and Stripes.

Lbs.	200	300	400	500
Each	$3.00	$4.00	$5.00	$8.00
	$4.80	$6.40	$9.60	$12.80

Half dozen in a case.

100 to 500 lbs., packed with poises; 600 poises separate.

COFFEE MILLS

WALL PATTERN

ENTERPRISE

Made Especially for Family Use. Finished in Black Enamel. Strong, Heavy Glass Coffee Container, with Air-tight Metal Screw Cap. Holds a Full Pound of Coffee-beans. Heavy Glass, Graduated to 1, 2, 3, 4 and 5 Tablespoonsfulls for Measuring Ground Coffee. Regulating Screw for Fine or Coarse Grinding.

No. 100

Each

No. 100—Height, 14½ Inches. Weight, 4½ Lbs. . . . $2.50 **$2.80**

Each mill in a corrugated pasteboard box. 6 Boxes in a case.

COFFEE MILLS

WALL PATTERN

Universal. Black Enameled Body. Rapid Chilled Iron Grinders. Patent Adjusting Device. Grinds Coarse or Fine as Desired. Holds One Pound Coffee.

Air Tight Tin Canister with Glass Inside and Removable Lid, Detachable Cup. Canister Held in Place by Iron Collar and Set Screw. Cast Crank with Plain Wood Handle. Depth of Can, 8 Ins. Diam., 4½ Ins. Ht., Over All, 12½ Ins. Wt., Per Doz., 50 Lbs.

Per Dozen

No. 014 . . . . . $23.50

Air Tight Standard Half Gal. Mason Jar. Cast Crank with Cherry Stained Wood Handle, Glass Receiving Cup at the Bottom. Easily Removed. Fitted with Wall Bracket. Ht., of Jar, 7 Ins. Diam., 3½ Ins. Ht., Over All, 17½ Ins. Capacity, 1 Lb. of Coffee. Wt., Per Doz., 83 Lbs.

Per Dozen

No. 24 . . . . . $28.80

Half dozen in a case.

REGAL

Capacity of Hopper, 1 Lb. of Coffee. Black Japanned. Cast Iron Body and Crank. Tin Hopper and Cup. Screw Cap. Adjustable Hardened Cast Iron Grinders. Ht., Over All, 14 Ins. Width, 6½ Ins. Hopper Diam., 4½ Ins. Deep. Wt., Per Dozen, 45 Lbs.

No. 44

Per Dozen

No. 44 . . . . . $17.60

Half dozen in a case.

ENTERPRISE

Cast Iron, Painted Black, Red and Gold Striped. Adjustable Chilled Grinders. Detachable Iron Cup. Side Adjustment. Hinged Case, Open Hopper.

Capacity of Hopper, 4 Oz. Will Grinds 6 Oz. Per Minute.

Ht., 9 Ins. Width, 5½ Ins. Hopper Diam., 3½ Ins. Wt., Per Doz., 72 Lbs.

Each

No. 00 . . . . . $2.00 **$3.30**

One dozen in a case

Capacity of Hopper, 1 Lb. Will Grind 12 Ozs. Per Minute. Will Pulverize. Ht., 16½ Ins. Width of Machine, 7½ Ins. Size of Hopper, 6½ x 4½ Ins. Wt., Per Doz., 214 Lbs.

Each

No. E350 $5 25 **$8.25**

One dozen in a case.

HOLLAND BEAUTY

Capacity of Hopper, 1 Lb. of Coffee. Wood Back, 4 x 12 Inches. Varnished Lithographed Tin Canister, with Lid. Chilled Iron Grinders. Front Thumb Screw Adjustment. Japanned Cast Body and Handle. Detachable Tin Cup. Ht., Over All, 14 Ins. Extreme Width, 4½ Inches. Canister, 6 x 6 Ins. Wt., Per Dozen, About 35 Lbs.

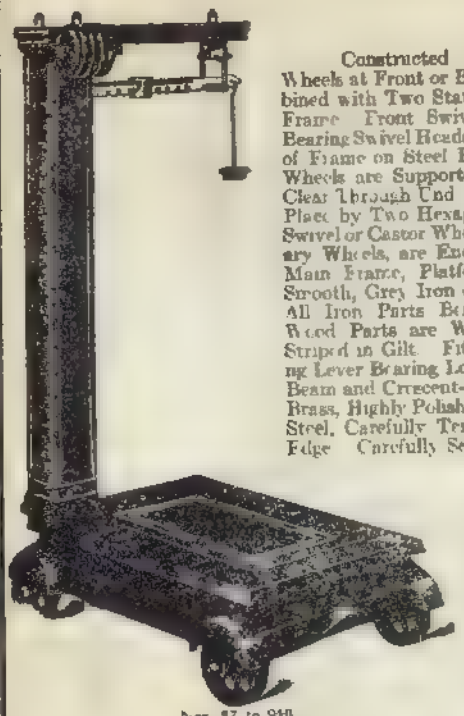
Per Dozen

No. 207 . . . . . $13.80

One in a carton; three dozen in a case.

PLATFORM SCALES

CYCLO



Nos. 87 to 910

Constructed with Two Swivel or Castor Wheels at Front or Beam End of Scale Frame, Combined with Two Stationary Wheels at Rear End of Frame. Front Swivel Wheels Supported on Ball Bearing Swivel Heads, Securely Held in Front Corners of Frame on Steel Bearing Pins. Rear Stationary Wheels are Supported on a Steel Axle that Runs Clear Through Under Frame, the Axle Being Held in Place by Two Hexagon Nuts on Outside of Frame. Swivel or Castor Wheels, as Well as the Rear Stationary Wheels, are Enclosed Within the Base Frame. Main Frame, Platform and Levers are Made of Smooth, Grey Iron of Ample Weight and Strength. All Iron Parts Being Finished in Black Japan. Wood Parts are Well Finished and Handsomely Striped in Gilt. Fitted with Hardened Self-adjusting Lever Bearing Loops and Platform Bearing Feet. Beam and Crescent-shaped sliding Poises of Solid Brass, Highly Polished. All Pivots are of Best Tool Steel, Carefully Tempered and Ground to a Knife Edge. Carefully Sealed and Tested to United States Standard Weights and Boxed for Shipment with Complete Instructions for Setting Up. Figure 2 Shows How the Swivel Castor Wheels are Held in Base Frame. Also How Scale Levers are Supported in Hardened Self-adjusting Loop Bearings, as Well as How Platform Frame is Supported on Levers by Hardened Self-adjusting Steel Bearing Feet. Platform is Held in Perfect Alignment with Lever Pivots by Improved Check Rod System.

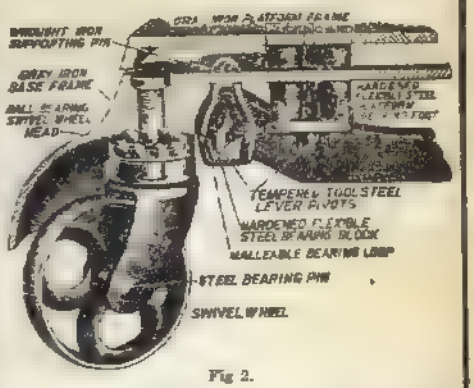


Fig 2.

		Capacity Lbs.	Shipping Weight Lbs.	Beam Graduated Lbs
No. 87	Single Beam	600	150	50x¼
No. 88		800	165	50x½
No. 89		1000	170	100x½
No. 90		1200	175	100x¾
No. 91		1500	200	100x¾
No. 870	Double Beam	600	150	50x¼
No. 880		800	165	50x½
No. 890		1000	170	100x½
No. 900		1200	175	100x¾
No. 910		1500	200	100x¾

Prices on Request

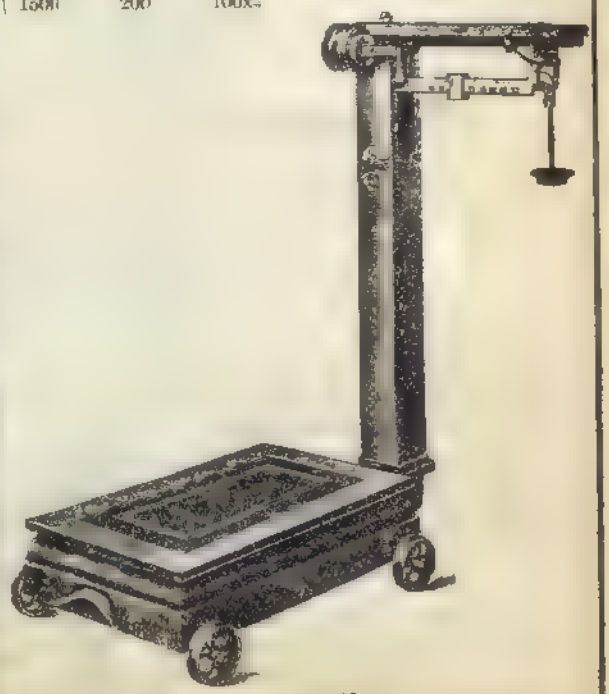
SINGLE BEAM

AMERICAN

High Grade, with Exposed Wheels Supported on Steel Axles that Run Clear Through Under Scale Frame. Main Frame, Platform and Levers are Made of Smooth Grey Iron of Ample Weight and Strength. Iron Parts Being Finished in Black Japan. Natural Wood Base, Varnished and Striped. Beam is Carefully Graduated and Made of Solid Brass with Square Brass Sliding Poise, Both Being Milled and Polished. The Beam and Lever Pivots are Best Tempered Tool Steel Drawn to a Knife Edge, Being Supported in Hardened Self-adjusting Bearing Loops Pivotally Secured in Base Frame of Scale. Made in Capacities from 600 Lbs. to 1500 Lbs. are Sealed to U. S. Standard Weights. Carefully Boxed for Shipment, with Complete Instructions for Setting Up.

	Capacity Pounds	Beams Graduated, Pounds
No. 6	600	50 x ¼
No. 8	800	50 x ½
No. 10	1000	100 x ½
No. 12	1200	100 x ¾
No. 15	1500	100 x ¾

Prices on Request



Nos. 6 to 15

DOLLS FOR DRESSING

The biggest and best showing of many years, including all metal, real kid, full jointed composition, wood dolls and "life-like" babies. Dolls for [illegible] will surely meet the requirements of all your trade. **Buy here.**

ALL METAL DOLLS

Practically indestructible, and a resilient character and [illegible] fine flesh finish 12 in., painted features, hip and shoulder joints. Turn [illegible] lace trim white lawn chemise. 1 doz. in box.

Painted Hair

F7085—Painted eyes	Each	$1.36
F7086—Moving eyes	"	1.65

Mohair Wigs

F7087 Painted eyes	Each	$1.85
F7088—Moving eyes	"	2.00

EXTRA SIZE DOLLS

[illegible] composition heads & hands, painted features, [illegible] and shoulder joints, [illegible] in pajamas, lace and [illegible] trim, white [illegible] 1 in box.

F7518 Painted hair. Each $1.25

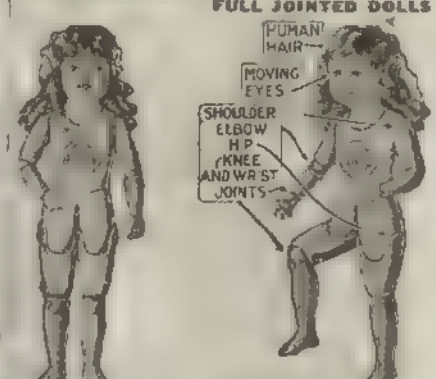
F7519 Mohair wig [illegible] Each, $1.75

"AMKID" JOINTED DOLLS

Composition heads, plate bodies, [illegible] pair of [illegible] mohair wigs, [illegible] knit [illegible] stockings. 1 in box.

Painted Eyes			Moving Eyes		
F7091—14 in.	Each	$2.25	F7094—14 in.	Each	$3.75
F7092—16 "	"	2.50	F7095—16 "	"	4.75
F7093—18 "	"	3.50	F7096—18 "	"	5.75

IMPROVED "REAL KID" FULL JOINTED DOLLS



[illegible] Real kid [illegible] bodies, [illegible] and [illegible] painted eyes, [illegible] human hair wigs, [illegible] jointed at shoulder, elbow, wrist, hip and knee joints. Will be big seller. One doz. in box.

F7100—16 in.	Each	$4.50	F7103—32 in.,	Each	$7.00
F7101—18 "	"	5.50	F7104—36 "	"	8.25
F7102—20 "	"	6.00			

CELEBRATED "MARY JANE" FULL JOINTED COMPOSITION DOLLS

Real Hair Wigs

Full composition, excellent model, pink face, moving eyes, open mouth, exposed teeth, side stitched long curled blonde or brown human hair wigs, ribbon bow, shoulder, elbow, wrist, hip and knee joints, lace trim lawn slip with attached envelope chemise.

F7105—16 in.	Each	$3.75	F7108—32 in.	Each,	Temp.
F7106—18 "	"	$4.85	F7109—36 "	"	Out
F7107—20 "	"	5.25			

SCHOENHUT'S FAMOUS ALL WOOD DOLLS

In the body and head made of wood, enamel off painted, can be washed, turning heads, painted features, mohair wigs perfectly jointed with steel springs. Each in box.

Full Jointed Infants Shoulder, elbow, wrist, [illegible] and ankle joints, are trim lawn chemise.

[illegible]	$2.50
[illegible]	3.75
[illegible]	5.25

CHUBBY BABY MODELS—

F7195—18 in.	Each	$4.25
F7194—15 in.	"	5.50

The biggest sellers are these. Be sure and have a good variety for the Holiday season.

Full Jointed Dolls—Life-like faces, excellent flesh tinted, [illegible] side part curly mohair wig with ribbon bow, turning head, shoulder, elbow, wrist, hip and knee joints, stockinet and slippers. Each in box with stand for folds out for display purposes.

F7185—15 in., lace trim knit combination	Each	$5.50
F7190—17 " " " " "	"	6.50
F7197—19½ in. lace and ribbon trim white lawn chemise and [illegible]	Each	$8.50
[illegible] and ribbon [illegible] and knee joints	Each	$9.75

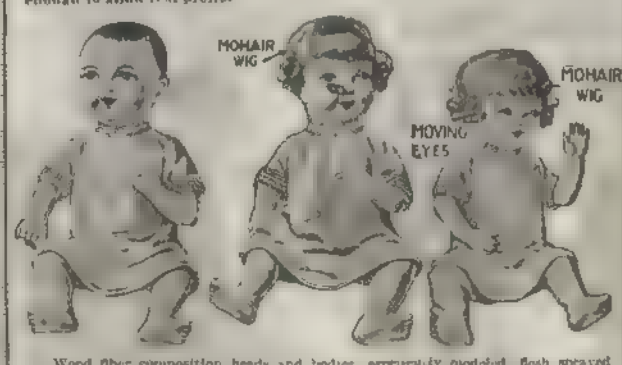
CURLY LOCKS DOLLS— With Moving Eyes

Composition breast plate heads and forearms, painted features, open mouth, moving eyes, full curled mohair wigs, ribbon bow, cork stuffed ladies hip and shoulder joints, lace trim lawn slip and underwear, white stockings buckled slippers. 1 in box.

F7184—16 in.	Each	$3.00	F7186—25 "	Temp.	Out
F7185—20 "	"	4.00			

LIGHT WEIGHT COMPOSITION CHARACTER DOLLS

Don't overlook the big selling features of these dolls. The prices are low enough to allow real profits.



Wood fiber composition heads and bodies, extremely modeled, flesh sprayed, turning heads, painted features and [illegible] wigs where specified, [illegible] joints, position limbs, jointed with [illegible] springs, each with lawn chemise [illegible]

Painted Hair			Mohair Wigs			Mohair Wigs — Moving Eyes		
	in.	Each			Each	*The following with open mouth and exposed teeth.*		Each
F7071	14 "	$1.25	F7075	14 in.	$1.75	F7076	14 in.	$2.35
F7072	16 "	1.60	F7077	18 "	2.00	F7078	16 "	2.75
F7073	20 "	2.75	F7079	20 "	3.95	F7081	20 "	5.00

FULL COMPOSITION CONVENTIONAL DOLLS

With Moving Eyes

Well proportioned, full composition. Light weight bodies, arms and legs, fine flesh finish painted and tinted features, hip and shoulder joints, curling head, moving eyes, curly mohair wig, stitched side part, ribbon bow, lace trim lawn chemise. 1 in box.

F7083—17 in. [illegible]

F7084—19 " [illegible]

"BUDDY" CHARACTER DOLLS

Faithful character representations of real infants

Full composition chubby bodies, turning heads and natural finish painted features and eyelashes, "life-like" baby expressions, moving eyes, short mohair wigs, hip and shoulder joints, position limbs, lace trim slip. 1 in box

F7120—12 in. Each
F7121—14½ "
F7122—18½ " jointed wrists
Each $4.25

Temp. Each $6.25
F7123—19 in. jointed wrists. Each $7.90
F7124—23 " jointed wrists.
F7125—25 " jointed wrists. Each $10.75

"ARTCRAFT" CHARACTER DOLLS

The exceptional flesh finish, excellent "bisque-like" [illegible] and glass eyes should make this one of the most popular lines this season—natural models.

[illegible] proportioned chubby [illegible] bodies, fine flesh finish, moving eyes, short curly mohair heads, short mohair wigs, hip and shoulder joints, position arms and limbs, lace and ribbon trim slip, 1 in box.

Painted Eyes—
F7135—15 in. Each, $2.50
Moving Glass Eyes—open mouth, exposed teeth,
F7136—[illegible] Each, $3.50
F7137—[illegible] " 4.50
F7138—[illegible] " molded tongue " 6.00
F7139—[illegible] " " 7.00

COLONIAL "NEXT-TO-NATURE" DOLLS

Note: Larger sizes F7132-33 are suitable for displaying babies' garments

Full composition waterproof bisque finish painted features, baby expressions, turning heads and [illegible] arms and legs connected with metal springs, blonde [illegible] wigs, all with lace trim chemise. Guaranteed—carefully inspected and skilfully packed.

Moving Eyes—1 in box

F7130—14 in. Each, $3.75
F7131—16 " " " 5.00

Moving Eyes—Natural eyelashes, movable tongue, wrist joints. 1 in box.

F7132—24 in. Each, $7.25
F7133—26 " " 8.25

DOLLIES' OUTFITS

A complete wardrobe for doll. All garments with band [illegible] Complete with hose and [illegible] tie, fastener and clean waist, molded bosom, hip and shoulder joints

F7284—11½ in. doll, white socks, paisnook panties, 3 dresses, solid color and flowered lawn, coat, ribbon trim cap. In box in box [illegible] Doz. To Asst

F7285—11 [illegible] 3 dresses, flowered and [illegible] lawn, [illegible] trim, [illegible] pantalettes, white [illegible] panties, [illegible] sewed [illegible] ribbon trim hat, [illegible] box. Each, $1.35

F7286—11 [illegible] baby doll, 2 dresses, long [illegible] slip, [illegible] bonnet, short flowered lawn dress, [illegible] ribbon trim hats to match, lace trim petticoat, [illegible] panties, [illegible] waist, [illegible] and [illegible] 13 [illegible] box. Each, $1.35

FAMOUS WALKING DOLLS

Attracted notable attention last year, consequently they should be in big demand this season. Walk in "life-like" manner. We show dolls with and without wigs, painted and moving eyes. Display some now.

Note—With a little practice you will soon [illegible] and a delightful walk. You will greatly [illegible]

Composition heads and hands, painted features, all with [illegible] Jointed [illegible] A [illegible] to fit socks and [illegible]

Painted Hair—19 in., composition forearms, fine gingham check dress, white pique collar and cuffs, patent leather belt, ruffled brown hat with white fluting, lace trim underwear

F7350—Painted eyes. Each $4.00

Mohair Wigs—11 in. composition forearms, pale pink [illegible] dresses, [illegible] trim, [illegible] hat to match, [illegible] bonnet with ribbon bow, hats to match, lace trim underwear

F7351—Painted Eyes. Each $6.00
F7352—Moving Eyes. 7.25

F7354

F7358

STAR VALUE

Full Jointed—Full composition legs and arms, knee joints, mohair wigs, pink or blue suit dresses, fluted lace trim collars, lace edged neck and sleeves, bending bulb with ribbon [illegible] dress, skirt, hats to match [illegible]

F7354—[illegible] painted eyes Each, $8.75
F7355—22 in., moving eyes, [illegible] 9.75
F7356—30 in., moving eyes, composition breast plate, [illegible] head Each, $15.00

Mohair Wig, Baby—Full composition legs and arms, knee joints, moving eyes, fine white lawn slip, embroidery yoke, lace trim neck, sleeves, waist and bottom of skirt, French bonnet, lace trim [illegible]

F7357—22 in. Each $11.75

CARNIVAL OR EXTRA SIZE DOLLS

Popular dolls for celebrations, etc. Composition heads and hands, painted features and hair, concealed hip and shoulder joints. Sell big all year 'round. Order now

Soldier—30 in., regulation khaki color costume, belted blouse, 2 pockets, brass buttons, Over Seas "model cap

F7986—1 in box Each $1.75

Sailor—30 in., regulation navy blue sailor suit, white collar and shield, white cap and shoes

F7987—1 in box. Each, $1.75

Nurse—30 in., blue chambray costume, white apron and cap, white slippers

F7989—1 in box Each $1.75

Clown—30 in., tricolor muslin harlequin costume, ruche neck and ankles, cap to match, white slippers

F7985—1 in box. Each, $1.75

Baby—30 in. lace trim long lawn slip, embroidery yoke, ribbon rosettes, lace trim [illegible] and cap

F7984—1 in box Each $1.75

Bathing Girl—30 in., black and white check bathing costume, bloomers and slippers to match, cap with colored ribbon bows

F7988—1 in box. Each $1.85

BASKET BALLS

Each

No. 7AB—"Armory". Made of Prime Quality Full Wrought Hand Boarded Cowhide on the Official Four-Section Pattern. Sewed with Heavy Waxed Linen Thread. Official in every detail of material, size and weight. Finest Pure Gum Bladder, Leather Lace and Needle..... $9.50

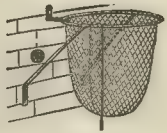
No. 7AG "Practice." Good Quality Pebble Grain Sheepskin on the Full-Size Pattern, Heavy Duck Lining; Pure Gum Bladder..... 4.50

BASKET BALL BLADDERS

All Bladders are guaranteed, and will be replaced within a reasonable time, if defective.

Each

No. 7AS Special, Extra Heavy; Warranted Pure Rubber..... $1.25



BASKET BALL GOALS

Per Pair

No. 20G Drop Forged Iron; Official Size and Construction 6 in. Extension; Complete with Nets..... $7 00

No. 75 Nets Only; Made of Heavy Cotton Twine..... .75

INDOOR BASE BALLS

Will Hold their Shape and not Beat Up Soft and Mushy

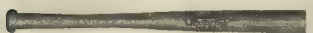
Guaranteed to give the best of service. Made according to official specifications of the National Indoor Base Ball Association.

Entirely Hand Made of Choicest Java Kapok; Linen Thread Stitching; Oil Tanned Horsehide Cover, Guaranteed for 18 Innings against ripping or losing its shape.

Each

No. 114 —14 in. Circumference..... $1 75

No. 116—16 in. Circumference..... 2.25



INDOOR BASE BALL BATS

Each

No. 84—Regulation; Selected Second-Growth Ash; Flame Burned; Assorted Models, Plain Handle..... .$0.50

DUMB BELLS

Wooden

Turned from Selected Extra Quality Maple, Finished in Hard Oil

Weight Each, Lbs.	½	¾	1	1½	2	3	4	5
Per Pair	$0.50	.60	.85	.70	.80	1.00	1.25	1.50

Iron

Cast Iron, Japanned Black, Evenly Balanced

Wt. Ea., Lbs.	2	3	4	5	6	8	10	12	15	20	25
Per Pair	$0.40	.60	.80	1 00	1.20	1.50	1.80	2.20	2.80	3.70	4.50

INDIAN CLUBS

Maple

Turned from Extra Quality Selected Maple, Finished in Hard Oil

Weight Each, Lbs.	½	¾	1	1¼	2
Height, In.	13½	13¾	15½	16½	18½
Per Pair	$0.50	.60	.65	.80	.90

Weight Each, Lbs.	3	4	5	6
Height, In.	20	22	23	24
Per Pair	$1.10	1.50	2.00	2.50

FOOT BALLS

INTERCOLLEGIATE RUGBY SHAPE

	Each
No. 5R—**"College Special".** Excellent Quality English Tempered Process Foot Ball Leather is used in this most durable and satisfactory ball. Special details of construction Prevent Stretching and Insure Perfect Shape. Waxed Linen Thread Stitching; Special Canvas Lining. Complete with Best Pure Gum Bladder, Leather Lace and Needle	$7 00
No. 5RG—**"College."** Good Grade Pebble Grain Cowhide; Heavy Duck Lining, Sewed with Waxed Linen Thread; Regulation Size. Complete with Pure Gum Bladder, Rawhide Lace and Needle	4 00
No. 5—**"Rex."** Choice Quality Pebbled Indian Grain Foot Ball Leather; Full Regulation size. A very strong ball of exceptional durability. Good Grade Gray Pure Gum Bladder	2 50
No. 5RF—**"Amateur."** Extra Strong Tan Pebble Grain Leatherette, Lined with Heavy Canvas; Pure Gum Bladder	1.50

FOOT BALL BLADDERS
Pure Gum Rubbers; Intercollegiate Rugby Shape

	Each
No. 6R—For No. 5R and 5RG Foot Ball	$1 25
No. 6—Two Piece; Size 9½x14½ in.; Rugby Shape	1 10
No. 4—Two Piece; Size 8⅝x13⅜ in.; Rugby Shape	1 00

FOOTBALL PUMPS

	Each
No. 1—Nickel Inflator, with Check Valve; Length 12 in.	$0 60

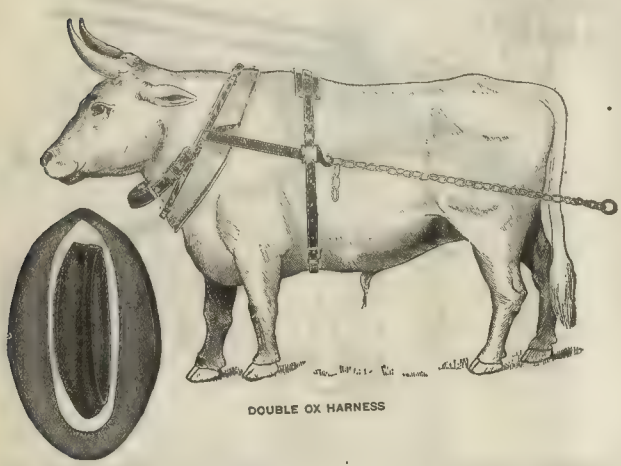
FOOT BALL PUMPS

	Each
No. 2—Nickel Inflator, with Check Valve, Length 7 in.	$0 35

Kelley-How-Thomson Co. of Duluth

OX HARNESS

Not Carried in Stock but Shipped Direct from Factory



DOUBLE OX HARNESS

HAMES—Length 24 in., Low Top, Varnished Wood, Square Staple.

HAME TUGS—1¼ in., Double and Stitched, Ox Tug Hooks.

TRACE CHAINS—6½ ft., 8 Links, No. 2 Gauge.

BREECHING—2 in. Folded with 1¼ in. Layer, 3 Rings Riveted Stays, 1¼ in. Back Strap, 1 in. Single Hip Strap, 1 in. Side Straps, to Snap into Tug Hooks or Trace Chains.

BACK BANDS—1¼ in., 3x16 in. Harness Leather Housing.

BELLY BANDS—1¼ in., Single Strap, Buckling into Billet from Tug Hooks.

COLLARS—No. 55 Extra Heavy Canvas.

BREAST STRAPS—1½ in.

	Per Set
Jap. Trimmed, with Breeching and Collar	$29 47
Jap. Trimmed, without Breeching, with Collar	18 90

One Set in a Box; Average Weight 45 Lbs. per Set with Collar

HEAVY CANVAS OX COLLARS

	Per Dozen
No. 55—Draft About 18 in.; Sizes 20, 21 and 22 in., To Tack to Hames; Leather Rim, Leather Welts, Leather Neck Pieces, Leather Hame Chafes	$14.78

Weight About 70 Lbs.

WATER BAGS

Capillary Attraction and Evaporation Keeps Water Cool.

A Portable Sanitary and Durable Water Container, that Provides a Good Supply of Cold Water at All Times even when exposed to a blazing mid-summer sun. The more Air and Sun that strikes this bag, the colder the Water will become, thus making it a very appropriate article for Sportsmen, Farmers, Threaher Crews, Lumbermen, Boatmen, Teamsters, Railroad Men and Stock Herders.

Regular Style

Auto. Regular Style

Sanitary Style

SOUTH AFRICAN

Made of Extra Heavy Pure Imported Flax, Sewed with Four-Ply Seam in the Back and Two-Ply Seam at the Bottom; Corners Sewed Round with Two-ply Seam; Galvanize Iron Mouth Piece, with Cork Stopper; Manila Rope Handle; Metal Handle Rings.

REGULAR STYLE

The Regular Style has Top Sewed up Tight.

Nos.	1R	2R	3½R	5R
Capacity, Gallons	1	2	3½	5
Weight per Dozen, Lbs	7½	10	13½	17
Per Dozen	$8.00	11.25	15.50	21 00

AUTO, REGULAR STYLE

Nos.	1RA	2RA	5RA
Capacity, Gallons	1	2	5
Weight per Dozen, Lbs	8½	11½	19
Per Dozen	$8 00	11.25	21.00

SANITARY STYLE

This style bag is Open at Top and Held Together by a Galvanized Iron Fastening which can be easily Removed for Cleaning Purposes.

Nos.	1S	2S	3½S
Capacity, Gallons	1	2	3½
Weight per Dozen, Lbs	6½	11½	17½
Per Dozen	$8 00	11.50	16.75

AUTO, SANITARY STYLE

Nos.	2SA
Capacity, Gallons	2
Weight per Dozen, Lbs	12½
Per Dozen	$11 0

EGYPTIAN

Absolutely Sanitary Construction

Made of Imported Specially constructed Flax, Double Stitched Corners Sewed Round; Galvanized Iron Spout with Cork Stopper; Top is Open and Held Together by a Galvanized Iron Fastening which can be easily Removed for Cleaning. Manila Rope Handle

	Per Dozen
No. 2E—Capacity 2 Gallons; Weight per Dozen 15 Lbs.	$18.00

HOT WATER BOTTLES

METAL: WILL NOT LEAK

Can be Filled with Boiling Water, which would mean ruin to a rubber bottle. It is particularly useful, as a Foot Warmer for the Bed or Automobile, or for the invalid who wishes to sit out of doors. For ordinary use—a small cup of boiling water, which can be heated over the gas jet in a few minutes, will fill the Metal Bottle with Steam and give sufficient heat for a long time.

	Per Dozen
No. 100—Nickel Plated Metal Bottle with Screwed Stopper; Size of Bottle 8x2 in.; Metal Bag is Encased in a Flannel Bag with Draw String Opening	$24.00
One in a Box, Weight per Dozen 10 Lbs.	

Stearns Hardware Specialties

Matchless **REVERSED LEVER** Saw Set

Combines the revolving anvil and indicator dial with other features that give it marked practical advantages.

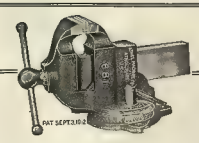
Lever is placed below the body of the Saw Set, where it is operated by moving the fingers only, doing away with the motion of the entire hand necessary with the older types

JOINTER GAUGES
CLAMPS VISES
MITRE BOXES
PLUMB BOBS
BARN DOOR LOCKS
RIVETING MACHINES

WRITE FOR CATALOG

E. C. STEARNS & CO.,

No. 224 ONEIDA ST., SYRACUSE, N. Y.



THE SIX HUNDRED LINE

A complete range of vises with swivel jaws and swivel bases that stay where they're put.

The positive locking device holds securely in any position in the circle—the base is firm as the bench to which it is attached.

High in quality—neat in appearance—the many new practical features appeal to your customers quick and sure.

Write for complete catalog.

ATHOL MACHINE CO.

ATHOL MASSACHUSETTS

Build up sales with CHICAGO SCALES

Known for nearly sixty years for their accuracy and dependability, Chicago Scales today are building bigger profits for dealers than ever before. Always of uniform high quality, they have earned an enviable reputation from coast to coast as a line of staple sellers.

The dealer who stocks Chicago Scales is building *permanent* profits, because these pioneer scales are not only good sellers—but they *stay sold.*

The Gibraltar Portable Platform Scale

A sturdy utility scale with arrow-point brass beam, sliding poise and set screw. Capacity 600 to 1500 lbs. Platform sizes, 16 in. x 24 in. to 19 in. x 28 in. Double beam if desired. Equipped with substantial wheels. One of the handsomest, most dependable scales on the market. Guaranteed for accuracy and reliability. Positively complies with the laws of weights and measures in all the states of the Union. Attractively finished in suave blue and gold.

Chicago Grocer Counter Scale

With Polished Brass Scoop

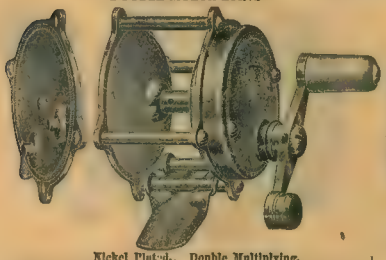
High class, accurate scale, especially built for fine Grocers, Coffee Dealers and Markets. Double beam capacity 250 lbs. Lower bar marked in ½ lbs. to 50 lbs. upper in single ounces to 16 lbs. Heavy brass sliding poises. All parts and bearings of specially tempered tool steel. Guaranteed to comply with all state laws of weights and measures. With brass or tin scoop beautifully finished in silver gray and gold.

Ask your jobber about Chicago Scales, or write direct for details of our liberal dealer proposition, free sales helps and 24-hour shipping service to dealers.

Chicago Scale Co.
1900-1920 1865
MASON, DAVIS & CO.
(Grand Crossing)
CHICAGO

FISHING REELS

DOUBLE MULTIPLYING



Nickel Plated. Double Multiplying.

"Atlas"—Raised screw pillar. Sliding click and drag. Balanced handle.

No. 125—Capacity, yards	40	60	80	100	150
Weight per dozen, lbs.	4	4½	5¼	6½	7½
Per dozen	$27.00	30.00	32.40	36.00	40.00

SINGLE ACTING

PFLEUGERS GOLDEN WEST

Nickel silver, satin finish. Hard rubber discs interleaved with aluminum. Adjustable back, sliding click. Balanced handle.

No.	1131
Capacity, yards	80
Weight, ozs	12
Each	$18.00

Each reel in velvet lined display case with Marvel oil can enclosed.

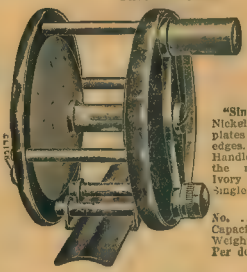
MEISSELBACH RAINBOW

A new reel modeled after some of the fine imported hand made reels. Single action. Is taken apart in a second without tools. Heavily built. Gun metal finish.

Nos.	627	631
Capacity, yards	40	60
Diameter of discs, inch	2⅞	3¼
Weight, ozs	3¼	4
Each	$7.50	9.00

All above, one in a box.

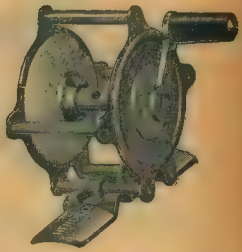
SINGLE ACTING



"Single Action Click"—Nickel plated. Rubber plates with metal bound edges. Adjustable click. Handle revolving within the metal raised dial. Ivory balanced handle. Single action.

No.	628
Capacity, yards	60
Weight dozen, lbs.	8
Per dozen	$48.00

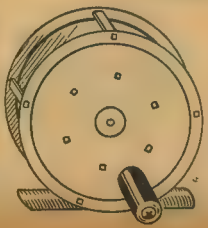
EXCEL



Nickel plated. Raised pillar. Single action, with click.

No. 110—			
Capacity, yards	25	40	60
Weight per dozen, lbs.	1½	1¾	2
Per dozen	$9.50	11.00	13.00

One in a box.



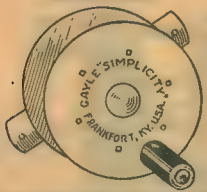
Cold rolled steel, nickel plated with adjustable click.

No.	106
Capacity, yards	40
Weight, lbs	3½
Per dozen	$9.50

One dozen in a box.

FISHING REELS

SINGLE ACTING



Cold rolled steel. Nickel plated. Fastens on side of rod.

No.	100
Capacity, yards	40
Weight, lbs	1½
Per dozen	$3.00

Three dozen in a carton

MONARCH

Full nickel plated. Free running with drag. Side plates are one piece of tempered brass, perforated and firmly riveted together to allow free ventilation, making the reel an excellent line dryer.

No.	1
Size, inch	4¾x1
Capacity, yards	150
Weight per dozen, lbs	8
Per dozen	$66.00

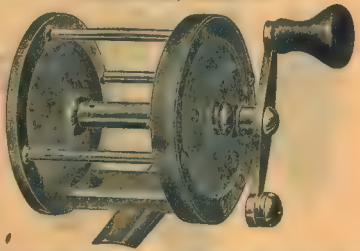
LIGHT WEIGHT TROUT

Gun metal finish. Very light, removable spool. Back sliding steel click and steel spindle.

Nos.	200 B	280 B	290 B
Size of spool, inch	⅞x2¼	1x2¾	1x3
Capacity, yards	60	80	120
Weight per dozen about, lbs	4	4	4
Per dozen	$48.00	50.00	55.00

One in a box.

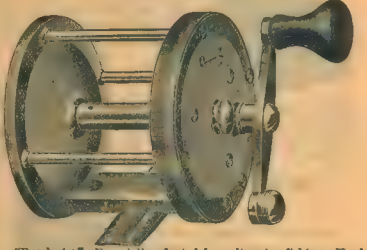
SURF CASTING, FREE SPOOL



"Interocean"—Generated spiral tooth gears. Hard rubber discs, reverse metal bound. Adjustable back sliding click. Front and back fancy oil cups, steel pivots, balanced crank with rubberoid handle. Tempered crucible steel clutch. To make reel free spool turn the crank a fraction of an inch backward. The clutch automatically takes hold when winding in.

	Full Nickel Plated		Nickel Silver	
Nos.	1817	1818	1819	1858	1859
Capacity, yards	200	250	300	250	300
Weight each, lbs	1	1¼	1½	1¼	1¼
Each	$16 00	18 00	20.00	22.00	24.00

SURF CASTING
DOUBLE MULTIPLYING



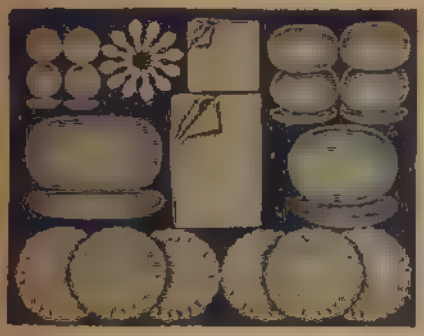
"Everlaster"—Especially adapted for salt water fishing. Hard rubber discs; reverse metal bound; spiral tooth gears; front and back oil cups; balanced handle, rubberoid thumb piece; patent double brace flange washer; adjustable back sliding click and drag.

	Steel Pivots			
Nos.	X 56SP	X 57SP	X 58SP	X 59SP
Capacity, yards	150	200	250	300
Weight each, lbs	1	1	1¼	1¼
Each	$13.00	14.00	15.00	16.00

Brass Pivots

"Eclipse"—Hard rubber discs. Metal bound, brass pivots. Adjustable sliding click and drag.

Nos.	X 46	X 47	X 48	X 49
Capacity, yards	150	200	250	300
Weight each, lbs	¾	¾	1	1
Each	$12.00	13.00	14.00	15.00



LUNCH SETS

MAPLE 41 PIECE

Contains

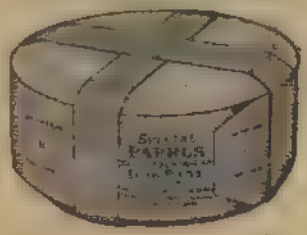
Table cloth	1
Napkins	6
3-in round wood dishes	6
5⅜-in oval wood dishes	6
9-in oval wood dishes	2
11⅛ in oval wood dishes	3
7-in round plates	6
Wood salad spoons	12

No.	41
Dozen sets in case	3
Net weight per set, lbs.	1¼
Shipping weight per case, lbs.	50
Per dozen sets	$3 00

PICNIC PLATES

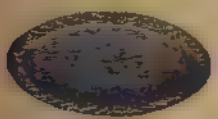
WOOD PULP

Moulded For all outdoor uses



No.	20
Number plates in package	20
Number packages in bundle	12
Diameter, inch	8
Shipping weight per bundle, lbs.	12
Per bundle	$1 75

Sold full bundles only.



WOOD PLATES

One piece maple veneer. Plate shape.

No.	8
Diameter, inch	8
Shipping weight per 1000, lbs.	44
Per thousand	$9 00

Five hundred plates in carton.
Sold in full cartons only.

TOOTHPICKS

Hardwood, flat double pointed. 750 picks in a box.

No.	Ideal
Cartons in case	24
Net weight per box lbs.	3
Shipping weight per case, lbs.	92
Per carton	$6.00

Sold in cartons only. 48 boxes in a cardboard carton, 25 cartons in a case.

WORLDS FAIR

Hardwood, polished, round taper pointed ends. 300 picks in box.

No.	300
Per carton	$2 00

Sold in cartons only. 24 boxes in a cardboard carton.

WATER BAGS

Trade Capacity

KANGAROO

All bags made from long line flax. Also equipped with pure unoiled hemp rope.

REGULAR

Closed top. Malleable iron galvanized mouthpiece. Top made rigid by means of a rattan stick sewed inside of the flax fabric. Rounded corners. Double sewed.

Nos.	1	2	3	5
Capacity, gallons	1	2	3	5
Length, inch	12	16	21	23
Width, inch	10	12	12	15½
Net weight per dozen, lbs.	8	10¼	11½	18
Per dozen	$21.50	34.00	48.00	68.00

WITH FAUCET

Nos.	RF103	RF105
Capacity, gallons	3	5
Length, inch	21	23
Width, inch	12	15½
Net weight per dozen, lbs.	17	22
Per dozen	$57.00	72.00

OPEN TOP

Malleable iron galvanized mouthpiece. Top made rigid by means of a galvanized slide wire. Easily turned wrong side out for cleansing and airing. Corners diagonally stitched.

Nos.	R 161	R 162
Capacity, gallons	1	2
Length, inch	12	16
Width, inch	10	12
Net weight dozen, lbs.	11¼	13
Per dozen	$25.00	28.00
Nos.	R 163	R 165
Capacity, gallons	3	5
Length, inch	21	23
Width, inch	12	15½
Net weight dozen, lbs.	15	22
Per dozen	$50.00	66.00

OPEN TOP WITH FAUCET

Nos.	RF163	RF165
Capacity, gallons	3	5
Length, inch	21	23
Width, inch	12	15½
Net weight per dozen, lbs.	21	24
Per dozen	$61.00	76 00

AUTO

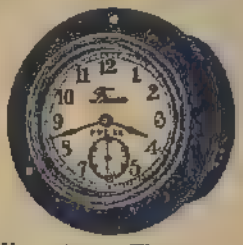
Closed top. Heavy stitched canvas. Porcelain or iron mouthpiece. Galvanized "D" rings for attaching rope. Inside protected seams. Has top brace or spreader.

No.	A 2
Capacity, gallons	2
Size, inch	12x16
Net weight dozen, lbs.	11
Per dozen	$35.00

AUTOMOBILE CLOCKS

The secret of the accuracy and durability of a keyless auto clock is the infinite exactness with which it is made. Micrometers that are the extreme of precision quickly detect the most minute variation in size. Each part is carefully tested. The plates, pinions, wheels—every part of the movement is solidly put together. Then comes a rigorous testing of the complete clock. When a clock has passed through the testing and inspection department, we guarantee that you will find it more than an "automobile clock"—a scientific, accurate timepiece that is a mark of the distinctively up-to-the-minute completely equipped automobile.

FRISCO
THIRTY HOUR. STEM WIND. COWL TYPE



Has concealed winding stem. The movement and its case can be removed from the outer case when necessary to wind it. The outer case is attached to the instrument board by three nickel plated screws. The movement is an accurate thirty hour type strongly and firmly assembled, especially for automobile use. Finished in black and nickel. 2¼-inch white dial with black numerals.

Frisco No. 2.....**Each $5.50**

DENVER
EIGHT DAY. KEY WIND. COWL TYPE

A high grade lever type movement accurately regulated makes the Denver model an ideal auto clock. A white celluloid dial 2¾ inches wide is used in place of the silver dial usually found on auto clocks. Finished in black and nickel.

Denver.....**Each $8.25**

MODEL 12
EIGHT DAY. RIM WIND AND SET. COWL TYPE

Just the proper size to install right in front of the wheel. The dial is only 2¼ inches in diameter, but is easily seen from the rear seat.

No. 12A—Black and nickel, with silver dial.

Each.....**$14.00**

No. 12B—All nickel, with black dial, luminous numerals and hands.

Each.....**$16.25**

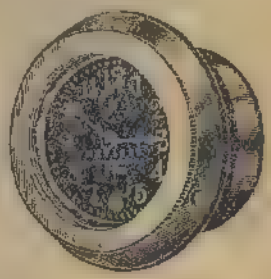
EIGHT DAY. RIM WIND AND SET. COWL TYPE
MODEL 9

Equipped with a fine quick beat, accurate eight day movement that will resist any shock or strain and yet keep accurate time. Dial 2¾ inches in diameter.

No. 9—Black and nickel, silver dial.....**Each $15.50**

No. 9C—Black and nickel, with black dial, luminous numerals and hands.....**Each $17.50**

POPOUT



Absolutely flush with instrument board. Will spring out just far enough to be easily wound and set. After you have wound or set it, press firmly against the face of the clock and when it has been pushed back flush with the instrument board a slight turn in a counter clockwise direction will lock the clock securely in place. Finished in black and nickel. Dial 2¾ inches. Black dial, luminous numerals and hands.

Popout.....**Each $19 00**

AEROPLANE

A clock of this type and design was selected by the United States navy for use on hydroplanes during the war. It had to stand every kind of strain and shock—and it had to be waterproof. It is essentially an aeroplane clock, but it has proven exceptionally well adapted to automobiles. The case is black enamel with a nickel winding rim. The dial is black with luminous numerals and hands. You can tell the time easily and accurately in the dark.

Aeroplane.....**Each $17.00**

AUTO-CANS

BOYCO

AUTO TYPE

For use on running board. Made of heavy galvanized iron with heavy blanket covering. Polished zinc mouthpiece. Cork lined cap. Drop handle on top.

Nos.	1	2	3
Capacity, gallons	1	2	3
Dozen in carton	1	1	½
Weight per carton, lbs.	29¼	39	24
Net weight per dozen, lbs.	22	28	36
Per dozen	$26.50	$1 50	$7 00

TRUCK TYPE

Same as auto type, except heavier and of 5 gallon capacity. No holder included in price.

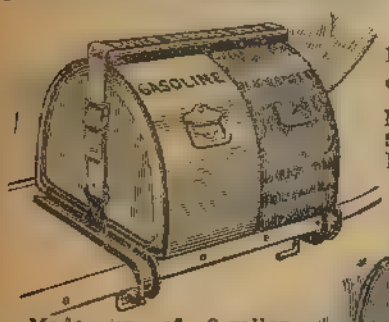
No. 5
Net weight dozen, lbs 65
Per dozen $46.25

• Special running board holder for No. 5.

Net weight dozen, lbs 48
Per dozen $49.50

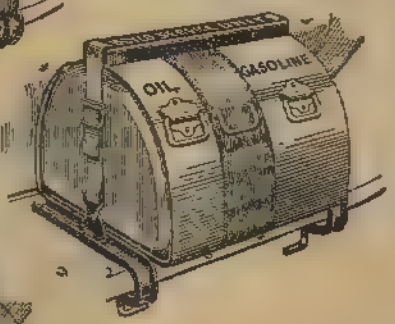
SERVICE UNITS

Combine in convenient form auto cans for gasoline, oil and water, the units held snugly to the running board by a substantial holder. The gasoline auto can is painted red, the oil can is painted blue and the water can is covered with a heavy blanket.



Made up of 2-gallon gasoline and 2-gallon water autocans. Complete with holder.

No. 22
Shipping weight, lbs.... 10
Each $7.00



Made up of 2-gallon gasoline, 1-gallon oil and 1-gallon water autocans. Complete with holder.

No. 112
Shipping weight, lbs. 12
Each $8.10

Made up of 2-gallon gasoline, 1-gallon oil and 2-gallon water autocans. Complete with holder.

No. 212
Shipping weight, lbs. 13
Each $8.75

CANTEEN HOLDERS

LINCOLN

Black enameled iron with web strap. Simple in construction. Attached to any running board with thumb screws.

No. 60—Weight 4 lbs.
Per dozen $38.00

One in a box.

BOYCO

Easily attached to running board by means of two adjustable clamps. Made of heavy material and finished in baked black enamel.

For 1 8-quart canteen. Size, 5½x6x11¾ inches. Weight, 54 lbs.
No. 8.....Per dozen $32.75

For 2 6-quart canteens. Size, 9x6x11 inches. Weight, 60 lbs.
No. 66.....Per dozen $45.50

TIPPING

The most convenient canteen holder combination ever offered the public. All you have to do is to loosen the strap and tip the canteen, which, once in place, cannot slip or work loose from the holder, although it can be easily removed by lifting. The holder clamps to the running board, and is locked by a sliding lock, automatically released when the strap which passes through the channel and protects the cap is loosened. Finished in dull baked japan. Canteen is the regular Boyco Indestructo, capacity 2 gallons. Packed complete, canteen and holder in fibre case.

No. 81
Weight per dozen, lbs. 90
Per dozen $61.75

WATER BAGS

AUTO

Closed top. Heavy stitched canvas. Porcelain or iron mouthpiece. Galvanized "D" rings for attaching rope. Inside protected seams. Has top brace or spreader.

No. ..... A 2
Capacity, gallons 2
Size, inch 12x16
Net weight per dozen, lbs. 11
Per dozen $35.00

Shipping weight water bags adds 11% to net weight.

AUTO HORNS

KLAXON

The Klaxon horns are the recognized public safety signal—the automobile warning for the city and country roads. All types furnished with push buttons and sufficient cable for installation.

Klaxons are regularly finished in all black. For all other finishes such as black and nickel, black and brass, etc., add $1.00 to the list prices. Electric Klaxons can be operated from dry cells or storage batteries. They are regularly wound for 6 volts. For special voltage up to 21 volts no extra charge.

KLAXON 12L

This type of Klaxon is the Underhood model. Electric operation. All black enamel finish. Can also be used as outside model.

No.	12 L
Volts	6
Weight, lbs	11
Each	$18.00

KLAXON 6

The No. 6 is the smaller type of the Klaxon, but operated on the same principle. Electric operation. All black enamel finish. 6 volts will be furnished unless otherwise ordered. 12 volts required on Dodge

No. 6—		
Volts	6	12
Weight, lbs	6	6
Each	$9 50	9.50

KLAXON 5

The same mechanically as the Klaxon 6, but has a torpedo projector. Sold stripped, without wire, push button or bracket. Special screws are furnished for individual mountings. In ordering specify for what cars they are intended and whether for 12-volt or single wire system. Equipped with Buick and Dodge brackets.

No. 5—	For Buick	For Dodge
Volts	6	12
Weight, lbs	6	6
Each	$9.00	9.00

KLAXON 5F
FORD TYPE

A warning signal, equipped with a bracket that will allow it to be installed simply and easily on Ford cars that are coming through equipped with self-starters.

No.	5 F
Weight, lbs	6
Each	$8.00

KLAXON 3

The No. 3 is for cars not equipped with batteries, but produces the same sound as electric horns. All black enamel finish.

No.	3
Weight, lbs	5
Each	$5.75

One in a wooden box.

KLAXON 3-V

Vertical push rod. In every other respect the same as Klaxon 3.

No.	3 V
Weight, lbs	5
Each	$5.75

NEW TONE

The various models of Newtone Motor Driven Horns offer the widest selection of a thoroughly dependable warning signal. Newtone horns are regularly wound for 6 volts, requiring the minimum of current consumption to operate. Special voltages may be obtained at a slight additional cost. Standard finish is all black, and all horns are furnished complete and ready for installation. The guarantee of the manufacturers insures permanent satisfaction in every respect. Extremely simple in construction. If necessary repairs can be made by any one.

6 and 12 volts carried in stock. 6 volts will be shipped unless otherwise ordered.

SUPERIOR UNDER HOOD MODEL

Both 6 and 12-Volt

Weight each, lbs. 4
Each $7.50

One in a carton; 10 cartons in a shipping container.

SUPERIOR OUTSIDE MODEL

Weight each, lbs. 4
Each $7.50

One in a carton; 10 cartons in a shipping container.

MODEL M, UNDER HOOD MODEL

Weight each, lbs. 6½
Each $13 50

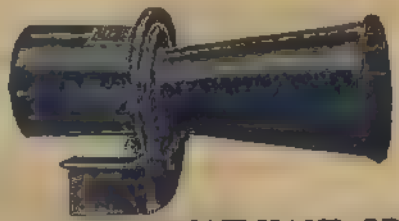
One in a carton; 5 cartons in a shipping container.

MODEL M, OUTSIDE MODEL

Weight each, lbs. 6½
Each $15.00

One in a carton; 5 cartons in a shipping container.

MODEL 9, UNDER HOOD MODEL
FOR FORD CARS



Weight each, lbs. 4¼
Each $7.00

One in carton; 10 cartons in a shipping container.

HANDPHONE HAND OPERATED SIGNALS

Handphones are compactly and rigidly constructed and will withstand the most severe service. The rattling sound due to vibration and so common in mechanical horns does not exist in Handphones. The tone is loud and penetrating and is produced by only a slight pressure on the plunger. Finished in all black, and fully guaranteed.

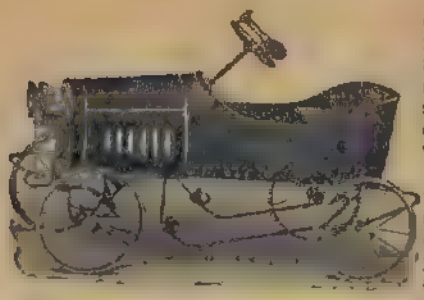
AUTOMOBILE MODEL

Weight each, lbs. 3½
Each $4.50

One in a carton; 10 cartons in a shipping container.

AUTOMOBILES

CLEVELAND



Steel throughout with exception of seat. Frame reinforced with steel cross members, supporting body and gears. All steel gears; standards of elliptic spring design. Rigid front axle with forged knuckle-joints. Ratchet starting crank, radiator cap, 6-inch steering wheel, nickeled hub caps. Body and hood, red; yellow and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	500⅜	500½
Size rubber tires, inch	⅜	½
Diameter wheels, inch	10	10
Size body, inch	13x30	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	34	35
Each	$19.50	20.20

RIVERSIDE

Steel throughout. Frame reinforced with steel cross members, supporting body and gears. All steel gears; standards of elliptic spring design. Rigid front axle with forged knuckle joints. Ratchet starting crank; 6-inch steering wheel, adjustable seat, nickeled hub caps. Body and hood red, yellow and black striping. Gears and wheels black enamel, baked. One in a case.

Nos.	510⅜	510½
Size rubber tires, inch	⅜	½
Diameter wheels, inch	10	10
Size body, inch	13x30	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	37	38
Each	20.85	22 10

BUCKEYE

Steel throughout with exception of seat; frame reinforced with steel cross members; supporting body and gears. All steel gears. Standards of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, fenders, 6-inch iron steering wheel, nickeled hub caps. Body, spartan red; striping, black and orange. Gears, wheels and fenders, black enamel, baked. One in a case.

Nos.	515⅜	515½
Size rubber tires, inch	⅜	½
Diameter wheels, inch	12	12
Size body, inch	13x30	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	40	42
Each	$25.00	27.50

EDGEWATER

All steel body and hood; seat, dash and radiator of wood. All steel frame and gears; standard of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, 6-inch steering wheel, fibre-covered seat, nickeled hub caps. Body and hood, red; yellow and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	520⅜	520½
Size rubber tires, inch	⅜	½
Diameter wheels, inch	10	10
Size body, inch	13x38	13x38
Suitable for children, years	4 to 6	4 to 6
Shipping weight, lbs.	42	42
Each	$24 60	26 00

DONNYBROOK

All steel body and hood; seat, dash and radiator of wood. All steel frame and gears; standards of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, adjustable windshield; 7-inch steering wheel, upholstered seat, nickeled hub caps. Body, green; hood, red; bronze, white and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	530⅜	530½
Size rubber tires, inch	⅜	½
Diameter wheels, inch	10	10
Size body, inch	13x38	13x38
Suitable for children, years	4 to 6	4 to 6
Shipping weight, lbs.	46	46
Each	$28.35	29.60

Lamps and horns extra.

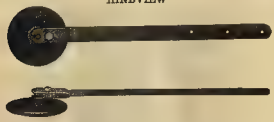
AUTO MIRRORS

SEES-ALL

Puts Eyes In the Back of Your Head

Sees-All- This new mirror has already established itself as a fast seller and a good profit-maker. Simply but solidly made of high-grade plate mirror and handsome nickel mount, it attaches readily to the windshield. It gives a clear view in any type of car, covering the road behind through the rear window in closed cars or touring cars with tops raised. The scientific angle does it..... Each, $4.00

HINDVIEW



For Motor Trucks

Style D—Designed for motor trucks. Length, 22 in Fastened to dash with five wood screws. Has ball joint and plain lens..... Each, $4.00

AUTO CLOCKS

Rear-Wind Flush type Dial, 2¼ in Eight day Each, $11.00

No. 12-B—Rim wind. Rim set. Eight day. Dial, 2¼ in. Base, 2½ in. Length of ring, ¼ in..... Each, $14.50

No. 12-BL— Same as 12, but has Luminous Dial. " 16.50

AUTO CLOCKS

Panama—A Clock for which it is not necessary to cut cowl board . . . . . Each, $4.75

Denver- Key wind. Eight day. Dial, 2⅜ in. Case, 2½ in. Length, 1⅛ in . . . . . Each, $8.25

No. 12 Rim wind. Rim set. Eight day. Dial, 2¼ in. Base, 2½ in. Cowl rung, 2 ½ in. Length of Clock behind ring. ⅛ in . . . . . Each, $14.00

No. 12-L Same as No 12, but with Luminous Dial " 16 00

Pop-Out- Rim wind Rim set. Eight day Luminous dial Latest model flush type clock Dial, 2¼ in . . Each, $17 00

HANDLED AXES

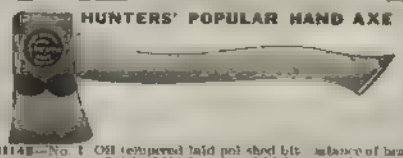
Well known axes that compare favorably with any others on the market—that's why we are offering them to you. Our prices are right in line to return you sufficient profit on your investment

"RED TOP" AXES—Michigan Pattern

Forged steel, hardened hand tempered [illegible] finish handle, full polished laid crucible steel bits. Each bit selected and tested before leaving factory. A medium priced line that will give satisfaction. Selected second growth hickory handle, securely wedged. ½ doz. in case

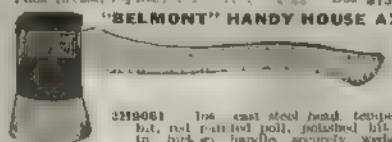
2H7170—3½ lbs., 32 in. handle	Doz.	$24.00
2H7171—4 " 36 "	"	24.50
2H7172—4½ " 36 "	"	24.85
2H7167—Assted 3 to 4 lbs., 32 in. handle		24.00
2H7168—" 4½ to 4¾ lbs., 36 in. handle		24.50
2H7169—" 4 to 5 lbs., 36 in. handle		24.85

HUNTERS' POPULAR HAND AXE



2H1148—No. 1 Oil tempered laid pol shed bit [illegible] head, cream bronze finish, 14½ in. second hickory crook handle. 1 doz. in case, 44½ lbs. Doz. $13.85

"BELMONT" HANDY HOUSE AXE



2H9061—Ins cast steel head, tempered bit, not painted poll, polished bit, 10 in. hickory handle, securely wedged. 1 doz. in crate. Doz. $12.50

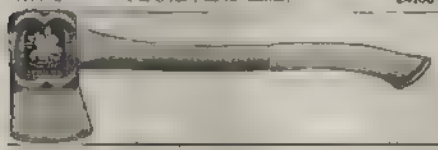
BOYS' "RED TOP" AXE

2H1141—Nlarge [illegible] No. 2 forged steel, hardened hand tempered [illegible] finish bent [illegible] bevels, 25 in. hickory handle. 1 doz. in crate. 44 lbs. Doz. $14.85

BOYS' "FALL CITY" AXE

2H1016—No. 2 gauge [illegible] steel head, poll painted red, [illegible] 28 in. No. 1 hickory handle, handle burlapped. ½ doz. in crate. Doz. $16.75

KELLY AXE MFG. CO'S STANDARD AXES



Single bit, Michigan pattern, polished bit, poll painted red, silver border, 28 in. scroll end No. 1 hickory handle. ½ doz. in crate, handles burlapped

2H1412—3 to 4 lbs.	Doz.	$23.95
2H1429—3½ to 4½ lbs.	"	24.15
2H1431—4 to 5 lbs.	"	24.75
2H1435—4½ to 5½ lbs.	"	26.95

Get in Right with your Trade. Write for our FREE booklet "WILL YOU FIGHT?" It tells how

"STANLEY" PLANES

Every user of planes knows the excellent quality of this popular brand. Made by America's foremost tool manufacturers. They are in big demand everywhere. Send us all of your orders

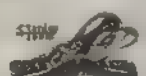
"STANLEY" BLOCK PLANES

Both adjustable and non-adjustable styles. Smooth bottoms and well sharpened cutters

2H1103—3½ in., 1⅝ in. cutter non-adjustable japanned sides, ⅝ in. 1 in box. Each 95c

2H1410—7½ in., 1⅝ in. cutter adjustable, [illegible] 1 in box. Each $1.15

2H1220—9½ in., 1¾ in. cutter screw adjustment, ground sides, 1½ lbs. 1 in box. Temp. Out



2H1135—8 in., 1½ in. cutter, adjustable end and side, japanned trimmings, 1½ lbs. 1 in box. Each $2.26

2H1103—[illegible] in box. Each $2.56

2H1160—[illegible] cutter low angle heavy iron body, adjustable throat, [illegible] nickel plated trim. 1 in box. Each $2.83

2H1115—8 in., 1¾ in. cutter knuckle joint, adjustable end and side, nickel trimmings, 1½ lbs. 1 in box. Each $2.85

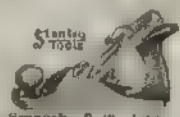
2H1119—9 in. 1¾ in. cutter knuckle joint, adjustable end, nickeled trim side. 1½ lbs. 1 in box. Each, $2.95

STANLEY "BAILEY" ADJUSTABLE IRON PLANES

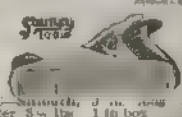
Smooth and corrugated bottoms, hard close grained gray iron body, rosewood handle and knob, finest English steel cutter, tempered, ground and honed, ready for use

2H3—Smooth, 6 in. long, 2 in. cutter, 3½ lbs. 1 in box. Each, $4.40

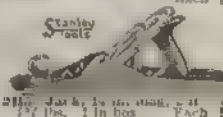
2H3C—Smooth, 8 in. long, 2⅜ in. cutter, 3½ lbs. 1 in box. Each $4.35



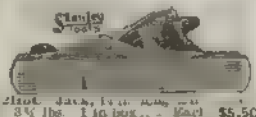
2H4—Smooth, 9 in. long, 2⅜ in. cutter, 4 lbs. box. Ea. $4.35



2H4C—Smooth, 9 in. long, 2⅜ in. cutter, 5½ lbs. 1 in box. Each $4.95



2H5C—Jack, 14 in. long, 2⅜ in. cutter, 7½ lbs. 1 in box. Each $5.10

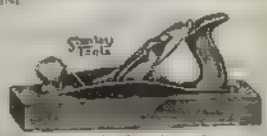


2H6C—Jack, 15 in. long, 2⅜ in. cutter, 8½ lbs. 1 in box. Each $5.50

STANLEY "BAILEY" ADJUSTABLE WOOD PLANES

Bailey cast in the bottom and "Stanley" stamped on cutter. Adjustable corrugated sole and sides. Beech bottom, handle and knob. Finest grade English steel cutter, tempered, ground and honed

2H30—Smooth, 8 in. long, 2 in. cutter, 2½ lbs. 1 in box. Each, $2.85



2H6045—Jack, 15 in. long, 2 in. cutter, 3½ lbs. 1 in box. Each $3.20

2H39—Fore, 18 in. long, 2½ in. cutter, 5½ lbs. 1 in box. Each $4.05

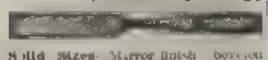
STANLEY GENUINE "CAGE" PLANE

2H1—Smooth, [illegible] corrugated bottom, [illegible] handle and knob, [illegible] and hand [illegible] Ea. $4.05

CHISELS AND TROWELS

A selected showing that you can offer knowing there are none better made at the price. Compare quality and prices and buy these good quality serviceable tools

"PEXTO" SOCKET FIRMER CHISELS



Solid Sizes—Mirror finish, boxwood [illegible] leather capped handles, each paper wrapped. ½ doz. in wood box

		Doz.
2H6 [illegible]		$ 8.25
2H [illegible]		8.45
2H [illegible]		8.65
2H [illegible]		$ 8.25
[illegible]		9.10
[illegible]		9.40
[illegible]		10.25
[illegible]		Temp. Out
2H [illegible]		$12.50
2H [illegible]		12.75
2H [illegible]		Temp. Out
[illegible]		$14.00

Assted 12 Sizes—1 each of ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾ and 2 in.

2H6713—1 doz. in box. Doz. $12.00

"PEXTO" SOCKET CHISEL SET

2H10900—4½ in. blade, lighter than the auto chisels, mirror finish, beveled [illegible] handles, [illegible] 1, 1¼, 1½, 1¾, 2 in., and 1 in. bevel firmer chisel, in varnished hardwood, hinged box. SET (6 pcs.), Temp. Out

STANLEY "EVERLASTING" CHISEL SET

2H151—Sizes ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾ and 2 in. [illegible] cap on [illegible] socket firmer chisels, [illegible] ground edge. [illegible] in hinged cover box. [illegible] SET (10 pcs.) $7.75

"PEXTO" CHISEL ASST.

2H1018—[illegible] socket firmer chisels, ½ doz. each ¼, ⅜, ½, ⅝, ¾, 1 and 1½ in. socket cabinet chisels. Assted 2 doz. in box with [illegible] metal dividers. [illegible] chisels. ASST. (24 pcs.) $16.15

"GOLD SEAL" SOCKET FIRMER CHISEL SETS

2 Sizes—1 each ¾ and 1 in. [illegible] full polished black ebony [illegible] handle

1440—1 set in box. SET (2 pcs.) 98c

12 Sizes—As above [illegible] ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2 and 2½ in.

1430—1 set in box. SET (12 pcs.) $7.50

"BELMONT" SOCKET FIRMER CHISEL SET

2H427—Cast steel [illegible] and tempered by [illegible] handle. 1 set in [illegible] ¼ and 1 in. SET (3 pcs.) $3.75

"MASTER MECHANIC" SOCKET FIRMER CHISELS

Warranted best crucible steel tempered ground and hand honed [illegible] mirror finish, leather [illegible] carry hand

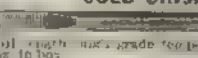
6 Sizes—1 each ¼, ⅜, ½, 1, 1½ and 2 in. in hinged oak box, 6 in set

2H480—1 set in box. SET (6 pcs.), $6.15

8 Sizes—1 each ¼, ⅜, ½, ⅝, ¾, 1, 1½ and 2 in. in hinged varnished oak box, 9 in set.

1431—1 set in box. SET (8 pcs.) $8.75

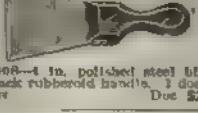
"EXCELLENT" COLD CHISELS



Full length, [illegible] grade tempered steel. 1 doz. in box

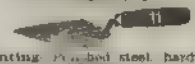
2H413—5 in., ½ cut	Doz.	$1.48
2H1188—6 " ½ "	"	2.10
2H417—8 " ½ "	"	2.90

WALL SCRAPER

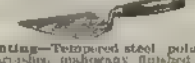


2H906—4 in. polished steel blade, black rubberoid handle. 1 doz. in box. Doz. $2.10

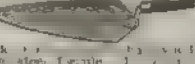
TROWELS



Pointing—Hardened steel, hardwood handle, [illegible] 2H961—5 in. 2 doz. lots. Doz. 98c / 6 " " 82c



Pointing—Tempered steel, polished [illegible] mahogany finished handle, steel ferrule. 1 doz. in box. 2H 623—6½ in. [illegible] Doz. $1.80



Brick [illegible] tempered steel, [illegible] handle. 1 doz. in box. [illegible] Doz. $2.15

Plaster [illegible] wood handle. ½ doz. in box. [illegible] Doz. $3.75

WM. JOHNSON'S "HEDENBURG" PLASTERING TROWELS

Each Guaranteed

Drop forged from crucible [illegible] hardened all tempered and full polished. Each trowel is hand [illegible] to assure perfect balance and swing. The same quality that has been made since 1830. ½ doz. in box

2H1826—10½ in. Temp. Out

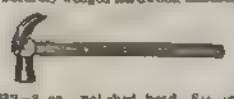
2H1827—11 in. Doz. $9.65

TOOLS FOR SHOP AND HOME

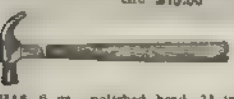
Comprising universally popular "Stanley," "Disston," "Kelly" and other good brands. The various lines are well represented, from the popular priced to the better grade tools, affording a wide range of selection. Give your closest attention to these pages where you can obtain good values. Make a price comparison, too. Purchase your stock here and enjoy the advantage of rock-bottom prices.

TACK OR HOUSE HAMMERS

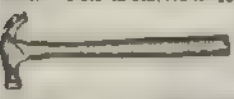
Securely wedged hardwood handles.



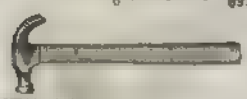
2H2—8 oz., polished head, 8½ in. handle. 1 doz. in box. Doz. 89c
Gro. $10.00



2H16—6 oz., polished head, 11 in. handle. 1 doz. in box. Doz. 98c

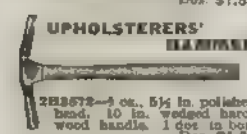


2H8821—6 oz., bell face, white nickel finish, 12 in. wedged hdl.
3 doz. lots. Doz. 83c
6 " " " 89c



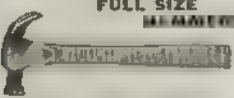
2H10—¼ lb., nickeled bell face, 10½ in. handle. 1 doz. in box.
Doz. $1.55

UPHOLSTERERS' HAMMER



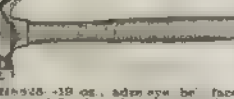
2H3572—4 oz., 5½ in. polished head, 10 in. wedged hardwood handle. 1 doz. in box.
Doz. $1.20
6 doz. lots. " 1.15

POPULAR PRICED FULL SIZE HAMMERS



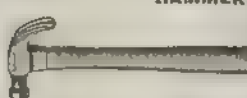
2H133—13 oz., polished ball face sides and claw, poll black lacquered 12 in. varnished handle. 1 doz. in box. Doz. 1.68

2H316—1 lb., adze eye, full polished except under claw and throat, 13 in. varnished handle. 1 doz. lots.
Doz. $2.25



2H8428—19 oz., adze eye, bell face, natural finish neck and under claw, rest of hammer highly polished, 13 in. hardwood varnished hdl. securely wedged. 1 doz. lots.
Doz. $2.75

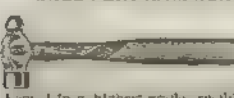
"STANLEY" NAIL HAMMERS



Bell face, curved claw, drop forged, special grade crucible steel, hardened and oil tempered, full polished, second growth hickory handle, securely wedged, ½ doz. in box.

2H25—(Mfrs. 12), 13 oz.	Doz. $17.75
2H48—(Mfrs. 13), 16 oz.	19.50

"PEXTO" BALL PEIN HAMMERS



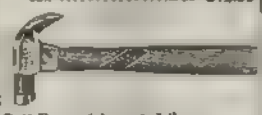
Drop forged, highest grade crucible cast steel head, hardened and tempered, polished and lacquered, full polished, second cut file, finished and polished, second grade hickory handle, securely wedged, ½ doz. in box.

2H3253—(Mfrs. 130), 12 oz.	Doz. $11.75
2H3268—(Mfrs. 135), 16 oz.	Doz. $12.95

P. S. & W. "FOREST CITY" HAMMERS

Forged from good grade tool steel, hardened, oil tempered and polished, second growth hickory hdl. securely wedged.

Plain Face—Adze eye, 1 lb.
2H3246—(Mfrs. 01½). ½ doz. in box.....Doz. $12.50

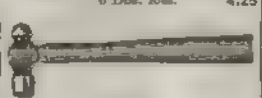


Bell Face—Adze eye, 1 lb.
2H3251—(Mfrs. 011½). ½ doz. in box.....Doz. $12.50

"CRAFTSMAN" STEEL HAMMERS

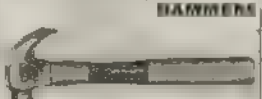
Made of special alloy steel, hard but not brittle, tough but not soft, face draws, is proof tested, hardened and tempered, natural forged finish, selected hardwood handles, securely wedged.

Bell Face—Adze eye. ½ doz. in box.
2H2060—No. 2 " Doz. $4.35
6 Doz. lots. " 4.25

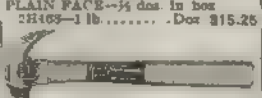


Ball Pein—½ doz. in box
2H2099—8 oz.....Doz. $3.25
2H2163—12 " .....Doz. $3.45
2H2165—16 " ..... " 3.75

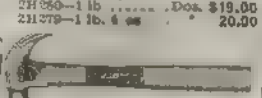
KELLY MFG. CO'S HAMMERS



"Fall City" Hammers. Adze eye, drop forged from good grade soft steel, second growth hickory handles, perfect balance and grit, uniform temper, polished finish.
PLAIN FACE—½ doz. in box
2H465—1 lb.....Doz. $15.25

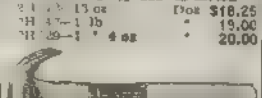


BELL FACE—½ doz. in carton
2H280—1 lb.....Doz. $19.00
2H279—1 lb. 4 oz. " 20.00



"Perfect" Nail Hammers—Adze eye, drop forged from warranted crucible steel, second growth hickory handles, perfect balance and grit, high polish and finish, temper warranted.
PLAIN FACE—½ doz. in carton

2H467—13 oz.	Doz. $18.25
2H467—1 lb.	" 19.00
2H469—1 " 4 oz.	" 20.00



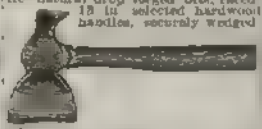
BELL FACE—½ doz. in box.
2H469—1 lb.....Doz. $15.25

HOUSEHOLD HATCHETS

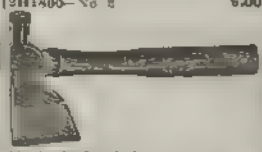
2H64—No. 1, 3 in. polished head, handle from hickory, 12 in. polished hardwood handle. 1 doz. in box.
Doz. $1.85

"CRAFTSMAN" STEEL HATCHETS

Made of special alloy steel, highly tempered, hard but not brittle, natural drop forged bits, faced, 13 in. selected hardwood handles, securely wedged.



Claw—½ doz. in box
2H1797—No. 1 Doz. $5.50
2H1800—No. 2 " 6.00

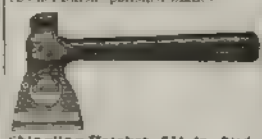


Hatchet—½ doz. in box.
2H1771—No. 1 Doz. $6.25
2H1773—" 3 " 6.75

Shingling—½ doz. in box.
2H1736—No. 1 Doz. $4.65
2H1740—" 3 " $4.95

"BUR-NOR" HATCHETS AND "MOTORISTS" AXE

Smooth face full blades, high carbon steel, oil tempered, hollow steel handles, heavy leather reinforced steel under heavy pressure, baked black enamel finish, polished blades.



Shingling Hatchet—3½ in. blade, 11½ in. handle.
2H6150—22 oz. ½ doz. in box, 8½ lbs.
Doz. $6.50

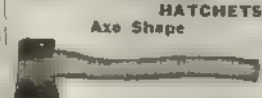
Claw Hatchet—Solid head, 3½ in. blade, 11½ in. handle.
2H9444—½ doz. in box, 10 lbs.
Doz. $5.85

Motorists' Axe—3½ in. blade, 11½ in. handle.
2H9445—With heavy leather sheath, with belt loops. ½ doz. in box, 11 lbs.....Doz. $10.50

"BOY SCOUT" AXE

2H308—No. 1, 14 in. handle, forged from crucible steel, heat treated or special process, ground over entire surface, polished, has full length hickory handle, set and riveted in head, finished with spar varnish.
Doz. $14.50

POPULAR HUNTERS' HATCHETS Axe Shape

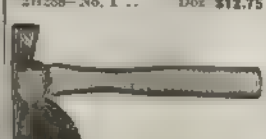


Cast steel, tempered bit, rod painted poll, polished body. ½ doz. in box.
2H8035—No. 1, 2½ lbs. 14 in. handle Doz. $7.25
2H8036—No. 2, 1½ lbs., 16 in. handle Doz. $7.50

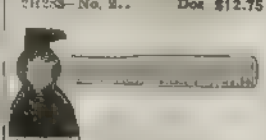
KELLY MFG. CO'S HATCHETS

Kelly's Hand Made—Satisfaction guaranteed. Natural black temper finish. No. 3 hickory handles.
SHINGLING—½ doz. in carton
H137—No. 1..... Doz. $11.85
H138—No. 2 " 12.25

LATHING—½ doz. in carton.
2H238—No. 1 .. Doz. $12.75

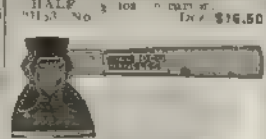


HALF—½ doz. in carton.
2H283—No. 2.. Doz. $12.75

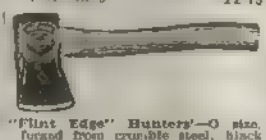


CLAW—½ doz. in carton
H284—No. 1 .. Doz. $13.25
H285—" 2 " 14.00

"Vulcan Brand" Hatchets, lot tempered, drop forged, head black finished, second growth hickory handles.
HALF—½ doz. in carton
H[illegible]—No. 2 Doz. $16.50



[illegible] doz. in carton
H[illegible]—No. 2 Doz. $21.50
H[illegible]—No. 3 " 22.75

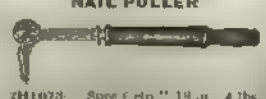


"Flint Edge" Hunters'—O size, forged from crucible steel, black finish, faced bit, first grade selected hickory handles.
2H404—½ doz. in carton
Doz. $14.50

CARPENTERS' RIPPING BAR

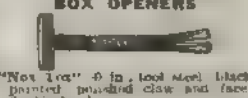
2H901—Full length 14 in. square, octagon tool steel, [illegible] tempered claw and chisel point.
½ doz. in pkg. Doz. $3.35

NAIL PULLER

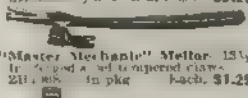


2H1073—Sure Grip," 13 in., 4 lbs., tempered bar steel hardened jaws, japanned handles. 1 in pkg.
Each $1.20

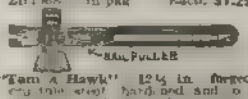
BOX OPENERS



"Nox Iron"—9 in., tool steel, black painted, polished claw and face, double head.
2H[illegible], doz. in box Doz. $5.25

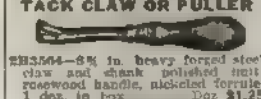


"Master Mechanic" Mortar, 13½ in., forged steel tempered claws.
2H[illegible] in pkg. Each, $1.25



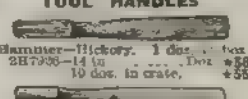
"Tam A Hawk"—12½ in. forged one piece steel, hardened and oil tempered, has pocket box opener, handle of selected hardwood, has [illegible] tempered steel claw, natural black finish polished head and bit.
2H980—4 in box Each $1.10
(Total $4.40)

TACK CLAW OR PULLER

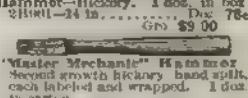


2H3564—8½ in. heavy forged steel claw and shank, polished, fruitwood handle, nickeled ferrule.
1 doz. in box Doz. $1.25
6 doz. lots " 1.18

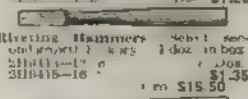
TOOL HANDLES



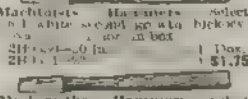
Hammer—Hickory. 1 doz. in box
2H7936—14 in.....Doz. $58
10 doz. in crate, $55



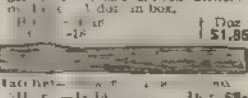
Hammer—Hickory. 1 doz. in box
2H8011—24 in.....Doz. 78c
Gro. $9.00



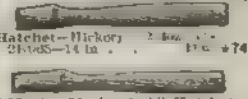
"Master Mechanic" Hammer. Second growth hickory hand split, each labeled and wrapped. 1 doz. in carton.
"H[illegible]—14 in. Doz. $1.20



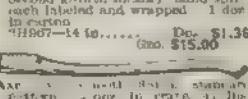
Riveting Hammers, select second growth hickory, 1 doz. in box.
2H[illegible]—[illegible] in. [illegible]
2H8418—16 " " $1.35
[illegible] $15.50



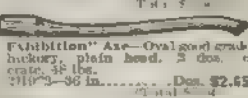
Machinists' Hammers, select [illegible] hickory handles, [illegible] in box.
2H[illegible]—[illegible] Doz.
2H[illegible]—[illegible] $1.75



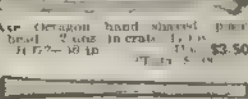
Blacksmiths' Hammers, select all white second growth hickory handles, 1 doz. in box.
2H[illegible]—[illegible] Doz.
" —18 " $1.85



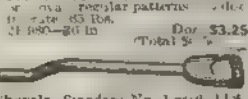
Hammers, [illegible] hickory handles.
2H[illegible]—[illegible] lb. Doz. 65c
1 doz. in crate 65c



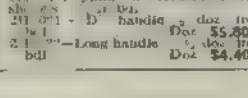
Hatchet—Hickory [illegible] box.
2H965—14 in. [illegible] Doz. $74



"Master Mechanics" Hatchet—Second growth hickory hand split, each labeled and wrapped. 1 doz. in carton.
"H967—14 in..... Doz. $1.36
Gro. $15.00



Axe, [illegible] head, [illegible] stamped, pattern, 3 oz. in crate, 1 doz.
2H[illegible]—36 in. Doz. $2.25
Total $[illegible]



"Exhibition" Axe—Oval good grade hickory, plain head. 2 doz. in crate, 48 lbs.
2H[illegible]—36 in.....Doz. $2.65
Total $[illegible]

Axe, octagon hand shaved pattern head, 2 doz. in crate, 1 doz.
H[illegible]—36 in. Doz. $3.50
Total $[illegible]

"Prize" Pick or Mattock. Each of seven regular patterns, select grade, 65 lbs.
2H880—36 in. Doz. $3.25
Total $[illegible]

Shovels, Spades No. 1 grade, D handle, for plain or riveted back, [illegible] doz.
2H[illegible]—D handle, [illegible] doz. in bdl. Doz. $5.80
2H[illegible]—Long handle, [illegible] doz. in bdl. Doz. $4.40

ADJUSTABLE PLANES

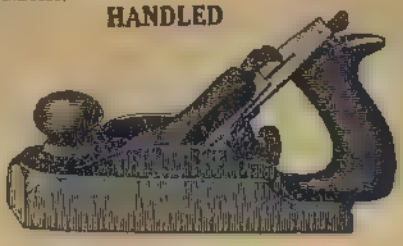
Manufactured by the Stanley Rule and Level Co.

BAILEY WOOD SMOOTH BOTTOM

Varnished beechwood bottom, knob and handle. Japanned cast iron frame and cap. Tempered tool steel cutters. Ground and polished. Screw and lever adjustment.

WITHOUT HANDLE

HANDLED



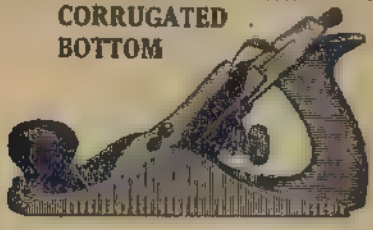
JACK, FORE AND JOINTER

	Unhandled			Handled		Jack		Fore	Jointer	
Nos.	22	24	25	35	36	26	27½	28	31	32
Length, inch	6	8	9½	9	10	15	15	18	24	26
Size cutter, inch	1¾	2	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	2½	3	2½	3½	4½	4	5½	5¾	6½	7½
Each	$5 25	5 50	5 25	6 00	6.75	5.50	6.25	6.75	7.75	8.00

IRON

Japanned cast iron frames. Varnished rosewood handles and knobs. Polished caps. Tempered polished tool steel cutters.

CORRUGATED BOTTOM



SMOOTH BOTTOM

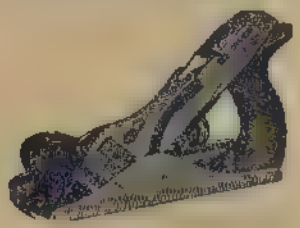
	Smooth					Jack		Fore	Jointer	
Nos.	1	2	3	4	4½	5	5½	6	7	8
Length, inch	5½	7	8	9	10	14	15	18	22	24
Size of cutter, inch	1¼	1⅝	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	1¼	2½	3	4	5	6	7	8	8	9¾
Each	$5 25	6.25	7 50	7 50	9 25	9 25	10.50	12.00	13 50	16.50

	Smooth			Jack		Fore	Jointer	
Nos.	3 C	4 C	4½ C	5 C	5½ C	6 C	7 C	8 C
Length, inch	8	9	10	14	15	18	22	24
Size of cutter, inch	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	3	4	5	5	7	8	8	9¾
Each	$7.50	7.75	9.00	9.25	10.50	12 00	13.50	16 50

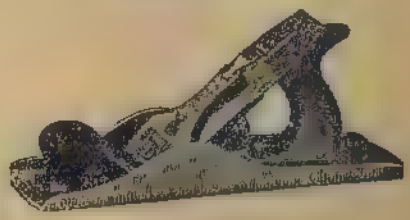
IRON BED ROCK

Japanned cast iron frames. Varnished rosewood handles and knobs. Polished caps. Tempered and polished tool steel cutter. Screw and lever adjustments. Designed so that the entire bottom or face on frog rests solidly on seat of frame and can be adjusted for wide or narrow throat openings.

CORRUGATED BOTTOM



SMOOTH BOTTOM



	Smooth				Jack		Fore	Jointer	
Nos.	602	603	604	604½	605	605½	606	607	608
Length, inch	7	8	9	10	14	15	18	22	24
Size of cutter, inch	1⅝	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	2¼	3½	4½	5	5¼	6¾	7½	8¾	9¾
Each	$7.50	7 75	9 00	9 75	9 75	10 75	12 75	15 00	18.00

	Smooth		Jack		Fore	Jointer	
Nos.	603 C	604 C	605 C	605½ C	606 C	607 C	608 C
Length, inch	8	9	14	15	18	22	24
Size of cutter, inch	1¾	2	2	2¼	2⅜	2⅜	2⅝
Weight each, lbs	3½	4½	5¼	6¾	7½	8¾	10¾
Each	$7 75	9.00	9.75	10.50	12 75	15 00	18 00

Above, one in a cardboard box.

IRON BLOCK PLANES

Manufactured by the Stanley Rule and Level Co.

Japanned cast iron frames. Tempered and polished steel cutters.

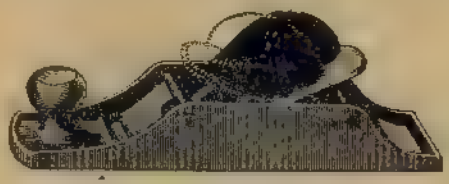
Toy size Not Adjustable	
No.	101
Length, inch	3½
Size of cutter, inch	1
Weight each, lb	⅝
Each	$0.75

Toy size. With handle Not Adjustable	
No.	100
Length, inch	3½
Size of cutter, inch	1
Weight each, lbs	½
Each	$1.05

	Not adjustable	Adjustable
Nos.	102	103
Length, inch	3½	5½
Size of cutter, inch	1⅜	1⅜
Weight each, lb	⅞	1
Each	$1.50	1.90

Not Adjustable

No.	110
Length, inch	7½
Size of cutter, inch	1⅝
Weight each, lbs	1½
Each	$1.95



Double end. Not Adjustable

No.	130
Length, inch	8
Size of cutter, inch	1⅝
Weight each, lbs	2
Each	$3.00

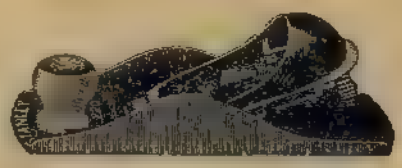
Double end, with screw adjustment.

No.	131
Length, inch	8
Size of cutter, inch	1⅝
Weight each, lbs	1¾
Each	$4.50

Note—Nos. 130 and 131 have 2 slots and 2 cutting seats They can be used as block planes, or, by reversing the position of the cutter be used as a bull nose plane, cutting into corners or places difficult to be reached with any other plane.

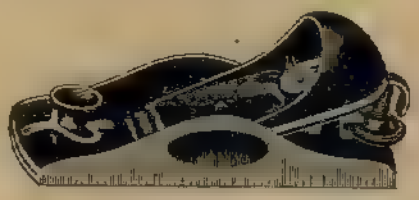
Adapted for manual training use. With screw adjustment.

No.	203
Length, inch	5½
Size of cutter, inch	1⅝
Weight each, lbs	1⅛
Each	$2.50

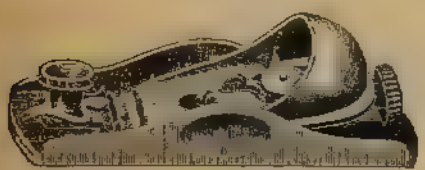


With screw attachment.

No.	220
Length, inch	7½
Size of cutter, inch	1⅝
Weight each, lbs	1½
Each	$3.00



	Japanned Trimmings		Nickel Trimmings	
Nos.	9½	15	16	17
Length, inch	6	7	6	7
Cutter, inch	1⅝	1⅝	1⅝	1⅝
Wgt each, lbs	1½	1¾	1½	1¾
Each	$2.50	2.75	2.75	3.00



Low angle block planes, with screw adjustment 12 degree angle. Adjustable throats.

	Nickel Trim		Japan Trim
Nos.	60	60½	65½
Length, inch	6	6	7
Size of cutter, inch	1⅜	1⅜	1⅝
Weight each, lbs	1¼	1¼	1½
Each	$4.00	3.75	4.50

No.	65
Length, inch	7
Size of cutter, inch	1⅝
Weight each, lbs	1½
Each	$4.75

No.	61
Length, inch	6
Size of cutter, inch	1⅜
Weight each, lbs	1¼
Each	$3.75

All above, one in a cardboard box.

PARTS FOR IRON AND WOOD BOTTOM PLANES

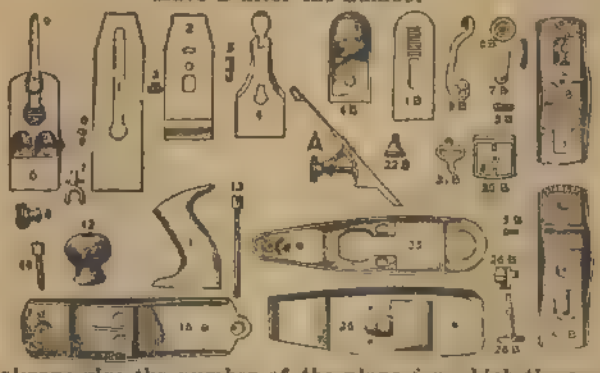
BAILEY PLANES

No. 1—Plane iron
No. 2—Plane iron cap.
No. 3—Plane iron screw.
No. 4—Cap.
No. 5—Cap screw.
No. 6—Frog.
No. 7—Y adjustment.
No. 8—Brass adjusting nut
No. 9—Lateral adjustment.

No. 10—Frog screw
No. 11—Handle.
No. 12—Knob.
No. 13—Handle "bolt and nut."
No. 14—Knob "bolt and nut."
No. 15—Handle screw.
No. 16—Bottom, iron plane.
No. 35—Top casting wood plane
No. 36—Bottom, wood plane.

BLOCK PLANES

Have B after the number



No. 1B—Plane iron.
No. 4B—Cap.
No. 5B—Cap screw.
No. 7B—Adjusting lever.
No. 8B—Adjusting nut
No. 9B—Lateral adjustment
No. 16B—Bottom (adjustable throat).
No. 20B—Mouth piece.
No. 21B—Eccentric plate.
No. 22B—Knob.
No. 26B—Adjustable frog
No. 28B—Adjusting screw
No. 46B—Bottom

In ordering, care should be taken to always give the number of the plane for which the part is wanted.

PRICE LIST ON PARTS OF PLANES

BAILEY IRON PLANES

Nos.	Name of Part	No. of 1 2	3 3c	4 4c	4½ 4½c	5 5c	5½ 5½c	6 6c	7 7c	8 8c
3	Cap screw	$0 10								
4	Lever cap	50								
5	Lever cap screw	10								
6	Frog complete	75								
7	Y adjusting lever	10								
8	Adjusting nut	20								
9	Lateral adjusting lever	20	For all numbers							
10	Frog screw	10								
11	Plane handle	40								
12	Plane knob	30								
13	Handle bolt and nut	20								
14	Knob bolt and nut	20								
15	Plane handle screw		.....	.....	.10	.10	.10	.10	.10	10
16	Plane bottom	1.70	2 00	2 00	2 40	2.40	2 40	3 20	4.70	5 70
46	Frog adjusting screw	0	10	10	.10	10	.10	10	10	10

Add 10 per cent for corrugated bottoms.

RABBET AND ROUTER PLANES

Nos.	Name of Part	No. of Plane	90 92	93	93	196	98 99	71 71½	77	95	97
1	Single plane iron		$0.60	60	60	50	40	60	40	40	50
4	Lever cap		30	30	30	20	20		20	.20	30
12	Plane knob						30	30			30
14	Knob bolt and nut							20			20
16	Plane bottom		3 50	4 20	5 00	2 40	1 20	2 00	60	1.60	2.00
27	Cutter bolt adjusting screw		.40	40	40	...	.....	.....	.....	.....	.....
47	Extra attachment						.....	.50	.....	.....	.....
48	Collar						.....	.50	.....	.....	.....

For irons for adjustable planes, see page 136.

In ordering frogs specify new or old style.

PRICE LIST ON PARTS OF PLANES

BAILEY WOOD PLANES

Nos.	Name of Part	No. of Plane	22	24-25 35	26	27½	28	31	32	36	37
3	Cap screw		$0 10								
4	Lever cap		.40								
5	Lever cap screw		.10								
6	Frog complete		.60								
7	Y adjusting lever		.10	For all numbers							
8	Adjusting nut		.20								
9	Lateral adjusting lever		.20								
10	Frog screw and bushing		.20								
11	Plane handle		.....	.20	.20	.20	.20	.20	.20	.20	.20
12	Plane knob		.20	.20	.20	.20	.20	.20	.20	.20	.20
13	Handle bolt and nut		.....	.20	.20	.20	20	.20	.20	.20	.20
14	Knob screw		.10	.10	.10	.10	.10	.10	.10	.10	.10
16	Plane bottom		.80	.80	1 00	1.00	1.40	1.60	1.50	1 00	1.40
17	Top casting		.40	.40	40	.40	.40	.40	40	10	.40

RABBET, MATCHING AND DADO PLANES

Nos.	Name of part	No. of Plane	39 48	49	78	146 to 148	171	190 to 192	239 239½	278	289
1	Single plane iron		.40	.40	.40	1.30	.80	.40	.50	.40	.60
4	Lever cap		.20	.20	.20	.20	.....	.20	.....	.20	.20
16	Plane bottom		2.40	4.00	2.00	3.00	1.80	1.80	3.00	2.00	2.40
50	Fence		1.00	1.00	.50	.....	.60	.....	.80	.50	.40
51	Fence thumb screw		.....	.....	.10	.....	.10	.....	.10	.10	.10
61	Short arm		.....	.....	.20	.....	.40	.....	.20	.20	.20
70	Adjusting depth gauge		.40	.....	.40	.....	.....	.40	.40	.40	.40
71	Depth gauge thumb screw		.20	.....	.20	.....	.....	.30	.10	.20	.20
85	Spurs with screws		.20	.....	.10	.....	.....	.10	.50	.10	.10

BAILEY AND STANLEY BLOCK PLANES

Nos	Name of Part	No. of Plane	9½ 9¾	15 15½	16 17	18 19	60 60½	62	61 63	65	65½
1	Single plane iron		.....	.....	.....	.....	...	.....	.. ..	.. ..	... ..
4	Lever cap		$0 20	.20	.30	.40	.30	.30	30	40	.20
5	Lever cap screw		.10	.10	.10	.10	.10	.10	10	10	.10
6	Frog complete		.....	.....	.. ..	.....	.20	.20	20	20	.20
7	Adjusting lever		.10	.10	.10	.10	.....	.....	.. ..	... ..	....
8	Adjusting nut		.20	.20	.20	.20	.20	.20	20	20	.20
9	Lateral adjusting lever		.20	.20	.20	.20	.....	... ..	.. ..	..	.....
11	Plane handle		.50	.50	.....	.....	.....	60	.. ..	..	...
16	Plane bottom		1.40	1.50	1.50	1 50	1 20	3 50	1 60	1 50	1 50
21	Eccentric plate		.20	.20	.20	.20	.20	.20	.20	.20	.20
22	Finger rest knob		.20	.20	.20	20	.20	.30	.20	20	.20

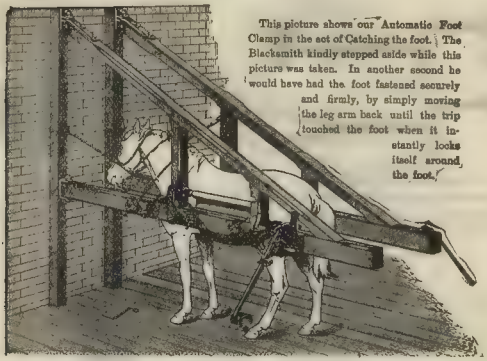
COMBINATION PLANES

Nos.	Name of Part	No. of Plane	45	46	47-444	50	55	743
1	Cutters	Per set	$7.00	$4.00	$2.50	$3.50	$12 00	$4 00
16	Main stock or bottom		5 00	5.00	5 00	2 50	6.00	6.00
23	Cutter bolt		.30	.30	.30	.30	.30	.....
24	Cutter bolt wing nut		.30	.30	.30	.30	.30	.....
25	Cutter bolt clip and screw		.10	.10	.10	.....	.10	.....
27	Cutter bolt adjusting screw		.20	.....	.....	.....	.20	.....
28	Cutter bolt adjusting wheel		.20	.....	.....	.....	.20	.....
30	Sliding section		3.00	3.00	3 00	.00	1 50	.....
32	Thumb le		....	.....	.....	.....	30	.....
33	Thumble check nut		....	.....	.....	.....	30	.....
34	Adjustable bottom		....	.....	.....	.....	2 50	.....
37	Adjustable bottom screw		....	.....	.....	.....	40	.....
40	Auxiliary center bottom		....	.....	.....	.....	.60	.....
42	Angle iron and adjusting screws		....	.....	.....	.. ..	60	....
50	Left fence		1.50	1 50	2.00	1 50	2 50	2 00
52	Tilting guard plate, wood		....	.....	.....	.. ..	.40	.. ..
53	Tilting iron with swivel		....	.....	.....	.....	80	.....
54	Left fence adjusting screw		....	.....	.....	.....	40	.....
56	Right fence		....	.....	2.50	....	2 00	.....
57	Right fence tilting plate		....	.....	... .	.....	.40	... .
60	Long arms	Per pair	1.00	1.00	1.00	1.00	1.00	1.00
61	Short arms	"	.50	.50	.50	.....	.50	... .
70	Adjusting depth gauge		.40	.40	.40	40	.40	.40
73	Adjusting beading stop		.40	.....	.....	.....	60	.....
75	Slitting cutter stop		.20	.20	.20	.20	.20	.....
80	Cam stop		.80	.....	.....	.....	80	.....
85	Spurs with screws		.10	.10	.10	.10	10	....

Screws Nos. 29, 31, 41, 43, 51, 58, 71, 76, 81, 86 and 87, $0.20 each.

BARCALO
MODEL
N
DROP-FORGED
BARCALO
22½° ANGLE
DROP FORGED
GUARANTEED
SIZES
4-6-8-10-12-15"
BARCALO MANUFACTURING COMPANY
BUFFALO N.Y. U.S.A.

BARCUS HORSE STOCKS



This picture shows our Automatic Foot Clamp in the act of Catching the foot. The Blacksmith kindly stepped aside while this picture was taken. In another second he would have had the foot fastened securely and firmly, by simply moving the leg arm back until the trip touched the foot when it instantly looks itself around the foot.

We answer the following questions, which are often asked

1. What is the Price of your Stocks complete? $46.00.
2. How long is the frame when in use? 10 feet.
3. Do they swing out of the way when not in use? Yes, both ways up against the wall.
4. What keeps the Stocks from swinging when in use? A Brace from rear end of frame to ceiling or floor. See cut.
5. How many Leg Arms go with every Machine? One only.
6. Do you advise using two Leg Arms? Yes, and some use more, although one is used very successfully.
7. What does an extra Leg Arm cost. $20.00.
8. Can you handle the hind foot as well as the front foot? Yes.
9. Is there danger of a horse getting hurt in the Stocks? No, the Veterinaries use them.
10. Do you give directions for setting up and using Stocks? Yes, very complete. Be sure to read them
11. What is the Freight on the Stocks? Not very much, as they are billed out at 450 lbs., knocked down and third-class rate. See that you are not overcharged on freight.

For the Blacksmith who wants the most convenient, the easiest, the most simple and quickest way to fasten a horse firmly and safely from any possible danger to horse or man. In this progressive age he cannot afford to match his strength against the strength of a horse. Neither can he afford to place his life in jeopardy or be crippled or broken in health in the prime of life. Yet how many blacksmiths are broken down at 50. Hardly a week passes but we hear of one, either getting killed or crippled, while shoeing a vicious horse. We have received a number of letters from blacksmiths saying, "If I had had those stocks when I commenced running a shop I would be a much better man than I am."

The Barcus Stock is the only machine ever made that does not use a strap or rope around the foot or ankle to hold it. It is the only shock made that you can lift the foot straight up as a blacksmith does by hand, then swing it backward or forward to get at the bottom or top. It is the only machine that holds the foot perfectly solid where you want it and does not skin or injure the ankle. A Girth 32 in. wide, prevents the animal from lying down.

FARRIERS' TOOLS

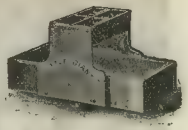
Ebony Handle

Malleable Iron Handle

LITTLE GIANT BUTTERISES

Adjustable Handles, Removable Knives

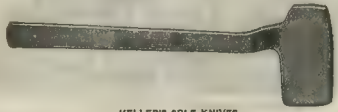
	Each
Ebony Handle	$1.50
Malleable Crutch Handle	1.50
Extra Knives	25



LITTLE GIANT TOOL BOXES

Made of Thoroughly Well Seasoned Chestnut Stock. Lock Cornered, Mortised Bottom and Side Pieces, Finely Finished and Thorough in Every Respect; Complete with Casters

Each $2.00



HELLER'S SOLE KNIVES

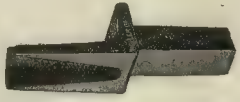
No. 26—Solid Cast Steel — Per Dozen $6.00

One Dozen in a Box.

HELLER'S BUFFERS

No. 28—Solid Cast Steel — Per Dozen $6.00

One Dozen in a Box.



HELLER'S TOE HARDIES

No. 27—Straight Pattern

Sizes, ¾, ⅞, 1 and 1¼ to Shank — Per Dozen $6.00

No. 29—Half Round Pattern

Sizes, ¾, ⅞, 1 and 1¼ in. Shank — Per Dozen $9.00

One Dozen in a Box.

FINIALS AND WEATHER VANES

Made of Galvanized Steel; Stem of Wrought Iron Pipe

Height 3 Feet

	Each
No. 222A—Round Base	$8.40
No. 222B—Square Base	7.00
No. 222C—Octagon Base	9.75

Height 6 Feet

	Each
No. 208A—Round Base	$20.00
No. 208B—Square Base	20.00
No. 208C—Octagon Base	29.00

Height 3 Feet

	Each
No. 204-3A—Round Base	$18.00
No. 204-3B—Square Base	18.00
No. 204-3C—Octagon Base	18.00

Height 6 Feet

	Each
No. 204-6A—Round Base	$24.00
No. 204-6B—Square Base	24.00
No. 204-6C—Octagon Base	24.00

Height 4½ Feet

	Each
No. 202A—Round Base	$23.50
No. 202B—Square Base	23.00
No. 202C—Octagon Base	23.00

Height 3 Feet

	Each
No. 205-3A—Round Base	$14.00
No. 205-3B—Square Base	10.00
No. 205-3C—Octagon Base	12.00

Height 4 Feet

	Each
No. 205-4A—Round Base	$20.00
No. 205-4B—Square Base	15.00
No. 205-4C—Octagon Base	18.00

NOTE—In Ordering, Send Sketch of Base, Giving Exact Measurements and Pitch of Tower or Roof

ROOF VENTILATORS

For Use on Public Buildings, Factories, Foundries, Breweries, Shops, Stables, Steamboats and Residences

CROWN

The Strongest, Neatest Appearing and Most Efficient Ventilator Made

Particularly well adapted for use in connection with Ventilating Systems in Large Buildings, such as School Houses, Churches, Halls, etc., as there is **No Band About This Top to Restrict the Free Exit of Air;** on account of the peculiar interior and wide flange construction which are the special patented features, this hand is not necessary and the wind in passing through the top, Acts Like an Ejector Causing a Strong Suction in the Pipe from Below.

Size, In.	12	14	16	18	20	24
Weight, Lbs.	10	24	30	45	53	90
Each	$6.75	13.00	20 00	27 00	35.00	40.00
Size, In.	30	36	40	48	60	72
Weight, Lbs.	145	222	303	575	1080	1173
Each	$65.00	120.00	180.00	240.00	300.00	480.00

Made of Heavy Galvanized Iron, Strongly Riveted and Jointed. A Combination of Strength and Efficiency, a Ventilator that Eliminates Foul Air and Brings New, Fresh, Invigorating Air Into a Building.

Air Currents Rush in from Below Between the Weather Band and Curved Deflector, and Force Upward and Outward the Warm, Impure Air they meet coming up the Air Shaft.

Size, In.	10	12	14	16	18
Weight Each, Lbs.	15	20	25	30	50
Each	$5.00	5.80	6.00	8.40	10.30
Size, In.	20	24	30	36	
Weight Each, Lbs.	60	75	100	160	
Each	$14.40	18.00	28.80	43.20	

When Ordering State if Ventilator is Wanted Complete with Full Length Pipe and Roof Saddle Ready for Installation; If so Give Pitch of Roof and State Whether it is to go on Peak or Side of Roof; Also if Damper is Wanted. Write for Discount Stating Number Wanted.

ROOF VENTILATORS

MILWAUKEE

Made of Heavy Galvanized Steel, Strongly Riveted and Jointed

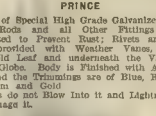
Size, In...	6	7	8	9	10	12
Wt., Lbs..	8	10	12	13	15	18
Each	$2.50	2.70	2.85	3.00	3.60	4.35
Size, In...	14	16	18	20	24	30
Wt., Lbs..	20	25	30	45	60	70
Each	$5.00	7.00	8.50	12.00	15.00	24.00
Size, In...	36	40	46	50	60	72
Wt., Lbs.	130	175	220	270	330	
Each	$36.00	50.00	70.00	96.00	120.00	

BARN CUPOLAS

PRINCE

Made of Special High Grade Galvanized Steel—Bolts, Rods and all Other Fittings Heavily Galvanized to Prevent Rust; Rivets are Brass. It is provided with Weather Vanes, Covered with Gold Leaf and underneath the Vane is a Golden Globe. Body is Finished with Aluminum Gloss and the Trimmings are of Blue, Rich Red, Aluminum and Gold

Storms do not Blow Into it and Lightning does not Damage it.



One Piece Base

Heavy Galvanized Steel; Made ready to put onto the building, no framing is required. Each corner is Five Thicknes of Heavy Galvanized Steel, making the Best, Strongest and Nicest Corner. Very Firm, Strong and Rigid. No Extra Material Required.

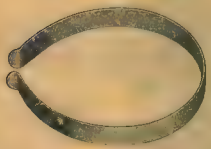
	Ventilating Flue	Base Moulding	Height	Shipping Weight	Each
No. 1	20 in.	36x36 in.	9 ft.	75 Lbs.	$35.00
No. 2	24 in.	40x40 in.	11 ft.	200 Lbs.	45.00
No. 3	28 in.	49x49 in.	12 ft.	225 Lbs.	55 00
No. 4	30 in.	54x54 in.	13 ft.	240 Lbs.	60.00
No. 5	36 in.	64x64 in.	14 ft.	260 Lbs.	65.00

When Ordering State if Ventilator is Wanted Complete with Full Length Pipe and Roof Saddle Ready for Installation; If so Give Pitch of Roof and State Whether it is to go on Peak or Side of Roof; Also if Damper is Wanted. Write for Discount Stating Number Wanted.

BICYCLE ACCESSORIES

TROUSER GUARDS

PERFECTION



Tempered spring steel, japanned. Wide pattern. Weight per dozen pairs, ¾ lb.

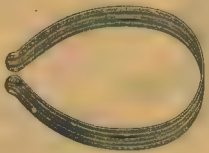
Per dozen pairs **$1.00**

Tempered spring steel, nickel plated. Wide pattern. Weight per dozen pairs, ¾ lb.

Per dozen pairs **$1.25**

Three dozen pairs in a box.

CORRUGATED



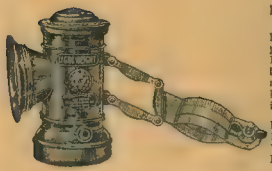
Tempered steel spring, japanned. Will not slip. Weight per dozen pairs, ¾ lb.

Per dozen pairs **$1.00**

Three dozen pairs in a box.

LAMPS

OIL

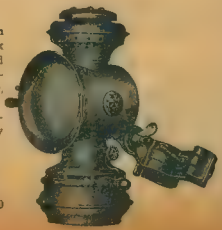


LIGHT WEIGHT

Sheet steel heavily nickel plated, 2½-inch Plano convex hinged lens, green and ruby side lights, highly polished reflector.

Height, inch 6
Burns, hours 10
Wgt doz, lbs 11
Each **$2.00**

SOLAR



Brass, nickel plated, with 2⅞-inch Plano convex front lens, and ¾-inch red side jewels. Has removable aluminum reflector, simple patent oil foun catch and wick lock, combination bracket to fit any head or fork.

Height, inch 6½
Burns, hours 12
Weight per dozen, lbs 15
Each **$2.50**

20TH CENTURY

Brass, nickel plated, 2¾-inch convex lens, red and green side lights.

No. **1**
Height, inch 5½
Burns, hours 12
Weight each, lbs 1¼
Each **$3 50**

COLUMBIA GAS

Brass, nickel plated, automatic water feed, powerful double convex lens, improved fish tail type removable burner, gas valve for regulating flame, parabolic reflector and combination and head bracket.

Size face, inch, 2¾
Wght each, lbs 2
Each **$1.00**

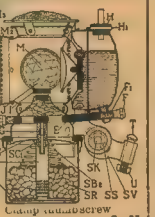
GAS AND CARBIDE LAMPS

SOLAR

Cannot jar or blow out. Heavy brass, nickel plated. Has removable aluminum reflector, 2⅝-inch double convex front lens, and 1½-inch ruby and green jewel side lights. Furnished with No. 1 Shipp lamp bracket, unless otherwise specified.

No.	Solar
Height, inch	7
Burns, hours	6
Weight each, lbs.	2¾
Each	$5.00

EXTRA PARTS FOR SOLAR



S–B	Screen tube	$0.10
S–B1	Screen tube plate	.10
S–B2	Carbide spring	.10
S–D	Rubber washer	.05
S–C	Washer plate	.05
S–C1	Washer plate nut	.05
E	Fibre wick	.05
F	Wick tube cap	.05
F1	Wick tube	.10
S–G	Water valve	.10
S–G1	Water valve washer and nut	.05
H	Filler cap	.10
H1	Filler cap washer	.02
I	Tip holder	.10
J	Tip	.10
S–K	Ratchet screw bolt	.15
L	Reflector	.10
M	Jewel, red or green	$0.15
M1	Lens door	.20
M2	Lens	.25
M3	Lens wire	.05
S–N	Bracket, complete	.75
S–O	Bracket side, R. H.	.15
S01	Bracket side, L. H.	.15
SP	Clamp screw bolt	.15
SQ	Clamp thumbscrew nut	.05
SR	Carbide tank	.40
SS	Ratchet screw thumb nut	.05
T	Pivot bolt	.10
U	Pivot bolt nut	.05
SV	Ratchet arm	.15
W	Bracket lining	.05

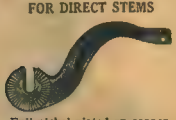
LIBERTY BICYCLE GAS

Especially designed and perfected to meet the demand for a popular priced quality lamp. Is made entirely of brass, highly polished and nickel plated. Has a large finely polished reflecting surface with a 3-inch convex front lens. Complete with Shipp bracket.

Weight, about, lbs. 1¾
Each $3.25

One in a carton.

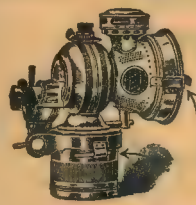
SHIPP LAMP BRACKETS FOR DIRECT STEMS



Full nickel plated on copper.

No.	3
Weight per dozen, lbs.	2
Per dozen	$6.00

20TH CENTURY



All brass, nickel plated. Carbide capacity, 5 ozs; ¼-ft burner, parabolic reflector; combination head and fork bracket.

No.	9
Height, inch	7
Candle power	110
Weight each, lbs.	1¼
Each	$5.00

EXTRA PARTS FOR NO. 2

1	Front glass, clear	$0.15
2	Front glass, red	.20
3	Front glass, green	.20
4	Front glass circle wire, 3	.10
61	Lava tip with metal cap	.20
63	Aluminum reflector	.25
65	Reflector wire, 3	.10
66	Door hinge and rivets	.15
67	Door catch rivets	.20
68	Screw water stopper	.15
69	Water valve rod	.30
70	Water valve arm	.15
71	Water valve octagon nut	.15
72	Water valve leather, 3	.10
75	Felt screen cap, 3	.10
76	Gasket (embeds carbide cup)	.05
77	Washer (bottom thumb screw), 3	.10
79	Wing nut bolt for bracket	.20
80	Wing and glass	.75
81	Framed side jewels, red and green, each	.20
82	Chimney cap	.20
83	Plate and 2 screws fastens head to reservoir	.20
85	Body inc., 93, 80, 82, 83	1.50
6	Carbide chambers	.50
7	Bottomless cup	.25
88	Cloth cover tube	.20
89	Spring double disc	.20
91	Band and wing nut bolt	.20
92	Wing nut bolt for 91	.20
94	Water reservoir	1.00

BURNER TIPS

Lava Gas Lamp Tips—Will fit any make bicycle gas lamp.

Per dozen $1.80

MOTORCYCLE REAR LIGHTS

Reflects the light of any overtaking vehicle. As powerful as the ordinary electric tail lamp. Made of diamond cut red glass, silvered on the back. Finished in nickel plate.

Per dozen $6.00

BICYCLE SUPPLIES

Hardware and general stores can handle bicycle supplies with commendable results. The volume of sales accessible allow quick turnover and an opportunity to have fresh sellers at all times. Our prices on the standard sellers shown here are figured on a very small percentage of profit, because we buy in huge quantities COMPARE.

"DUTCH" BRAND BICYCLE CEMENT

1K1140 1K1143

Rubber Patching Cement—¾x1¼ in. metal tube, screw top.
1K1140—1 doz. in box
Gro. $4.25 Doz. 36c

Rubber Patching Cement
1x4 metal tube, screw top.
1K1141—1 doz. in box
Gro $7.00 Doz. 60c

Wood Rim Cement—¾x4 in metal tube, screw top.
1K1145—1 doz. in box.
Gro $4.25 Doz. 36c

Wood Rim Cement—8 oz. bottle with swab.
1K1146—1 doz. in box.
Gro $9.25 Doz. 78c

Wood Rim Cement—4 oz. air-tight metal can
1K1144—1 doz. in box
Gro $13.50 Doz. $1.15

BRASS TIRE REPAIR PLUGS

For repairing small punctures and blow-outs in single tube tires

1K1108 1K1106

"Giant" — Screw head. Assrd. sizes.
1K1108—1 doz. in pkg.
Doz. 32c

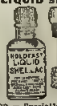
Samson—Swivel head, assrd. sizes
1K1106—1 doz. in env.
Doz 39c

"Nokut"—Same construction as well known "Sampson," rubber coated plates. Metal cannot come in contact with tire smooth surface becomes a part of the tire.
1K1010—Assrd. sizes. 1 doz. in carton
Doz 72c

REPAIR VALVE AND STEM

1K1089 — Complete Schrader valve in rubber stem with molded base to cement into single tube tires or inner tube, with turn-out valve. Doz $1.60

"HOLD FAST" LIQUID SHELLAC



1K1093 — Specially prepared shellac for attaching tires to rim, dries just right, holds fast. Sox in box with swab.
1 doz. in box Doz. $1.60

"OKEH" PUNCTURE TOOL

1K1111—Punctured single tube bicycle tires can be repaired in about 1 or 2 minutes with aid of rubber band and rubber cement, each in box.
1 doz. in carton Doz $1.80

POCKET BICYCLE OIL CAN

1K1042—3½ in. nickel plated brass handled spout, with dropper pin 1 doz. in pkg Doz 96c

BICYCLE OIL LAMP

1K1080—Nickel plated, 2½ in. convex lens, hinged door, beveled sides, with clamp. 1 in box Each $1.10

"20th CENTURY" ACETYLENE BICYCLE LAMP

ADJUSTABLE BRACKETS

1K1084—Nl. 7 in. nickel plated, bell shed reflectors, friction device gas cap prevents jarring off, riveted snap catch, duplex burner, beveled sides perfectly ventilated, bracket adjustable to any angle. 3 in. cover lens. 1 in box
Each, $2.75

CALCIUM CARBIDE

1K1079 lb. gas for all acetylene gas lamps. 6 cans in crate 10 lbs. Can 35c
(Total $6.10)

BICYCLE ELECTRIC LIGHT OUTFITS

Dependable outfits that will give maximum service. Complete, ready to be attached

1K1102

1K1102—One cell, black enameled headlight 2¾ in. nickel polished nickel plated reflecting surface. 2.8 volt bulb. Edisewan switch, adjustable bracket. Black can to hold 1 dry battery Without dry cell. 1 in carton. Ea. $1.65

1K1103—Two cell nickel plated brass headlight, rear tail light 4 in. lens, removable silvered reflector. 2.8 volt bulb Edisewan switch, black enameled headlight bracket clamps on handle bar or head, black enameled can holds 2 dry cells arranged to protect sheet circuiting. Without dry cells. 1 in carton
Each, $2.25

"NEW DEPARTURE" BICYCLE BELLS

Ball-bearing strikers nickel plated

1K1119-39 1K1119

Plain Leader — Bell metal gongs. 1 doz. in box.
1K1118—2¼ in. Doz. $2.35
1K1119—2¾ in. " 3.00

"Missouri" Asst—2¼ in. embossed enameled tops, assrd. marcos designs Doz. 1.50

1K1116—1 doz in box $3.40

"Leader Chime —2¼ in. nickel plated gun metal gong, chime notes.
1K1120—1 doz in box Doz. $5.00

AUTO TYPE HAND HORNS

1K1091 — Clear Out. Black enameled horn, any sound box, revolving bar handle, each in box with handle bar clamp. ½ doz. in box Doz. $4.50

1K1093—Black enameled cast steel diaphragm, rear driven, adjustment for warning pole, with clamp for attaching 1 in box Each 95c

1K1129 — Black enameled worm case, nickel plated front cover steel gears brass bushings vanadium steel diaphragm fastened to handle bar gives same note as auto horn 1 in box Each $1.20

"SIREN" WARNING SIGNAL

1K1063 — 3 in. glass nickel plate, brass ball bearing

ring at cord gives warning note, attaches to frame Each, 90c

"NEW DEPARTURE" BICYCLE CYCLOMETER

1K1197—Nickel plated, register attaches to fork stay, or attached to wheel hub, register, giving mileage 1 in box Each, 65c

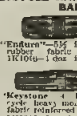
BICYCLE HANDLE BAR

1K1123 Motorcycle type 22 in. wide 6 in. rise 1 in pkg. Each $1.25

SHELBY BRACED MOTOBIKE HANDLE BARS

1K1125—Approved motobike size and design, center braced finished with extension stem 1 in pkg Each, $2.00

BICYCLE HANDLE BAR GRIPS



"Endure"—5½ in. molded rubber fabric reinforced.
1K1046—1 doz. in box
Doz. $1.65

"Keystone" 4 in. motorcycle heavy molded rubber fabric reinforced
1K1040—1 pr. in carton Pr 28c

BUILT-UP BICYCLE WHEELS

28x1½ in. black enameled, gold striped turned solid bar hub. Each in corrugated box

1K1048—Front. Each, $3.00
1K1049—Rear, 9 tooth hub. Each, $4.00
1K1050—Rear 9 tooth, "New Departure" coaster brake hub Each, $7.00
1K1047—Front with steel flaring for single clinch casings Each, $2.25
1K1051—Rear with "New Departure" coaster brake steel flaring for single clinch casing, . . . Each, $7.50

BICYCLE SPOKES AND NIPPLES

1K1185—Nickel plated, 12 in. standard spoke ¼ in nipple. 100 combinations in box
BOX of 100, $1.10

BICYCLE REPAIR FORK

1K1039—Nickel plated harmonizes with any color frame; solid and substantial. Fits any 28 in. wheel, head threaded to fit 26 22 or 24 in frames. 1 in pkg. Each, $1.80

MUD GUARD OUTFIT

1K1043—Black enameled front and rear guards, extra heavy gauge, steel center attached without removing wheels. 1 set in pkg. . . . . Set, 85c

TROUSERS GUARD

1K1082—"Protecto," ½ in. black enameled spring steel 3 doz. pr. in box
(Total $1.20) Doz. pr. 45c

"EVER GRIP" FRICTION TAPE

The best bicycle tape made. Guaranteed to keep for 12 months.

Black cotton tape ¾ in. wide, coated with adhesive rubber friction. For repairing bicycle tires, insulating electric wiring, recovering baseball, tapping baseball bats and many other purposes. Guaranteed to keep for 12 months. Each roll in individual Ribo carton.

1K1010—1 oz.,	16 rolls in box	Box	95c
1K1011 ½ "	8 " "	"	75c
1K1012—4 "	1 " "	"	14c
1K1013—8 "	1 " "	"	26c

"3 IN 1" OIL

Widely advertised. Polishes, cleans and lubricates. Packed in wood boxes with advertising matter

1K1095 1K1096

1K1095—1 oz. box	bottle 15c size (Total $3.40)	2 doz. in Doz.	$1.20
1K1097—8 oz. box	bottle, 25 size	1 doz. in Doz.	$2.40
1K1098—3½ oz., With spout	25c size, non-refillable can 1 doz. in box	Doz	$2.40

"NEVER LEAK" TIRE FLUID

Effective puncture sealing fluid. The prices are hard to duplicate.

1K1065 1K1084

1K1065—4 oz. collapsible tube, screws on valve stem end; tube inserted in tire seals punctures and overcomes porous and leaky conditions. For single tube tires. 1 doz. in box. Doz. $1.75

1K1084—Tip Top case, 4 oz. tubes with 24 premium certificates. 1 gro. in wood case. Case $19.50

BICYCLE PUMPS

Brass, nickel plated and polished. Each with hose and valve connection.

1K1075 1K1076 1K1077

Hand—5½ in. Fits in tool bag. Doz.
1K1075—1 doz. in pkg. $1.80
Telescope. With clamp for seat stem to frame.
1K 075—1 box Each 45c
Foot—All the same size tube.
1K1077—1 in box Each 45c
Hose Connection for Pumps
12 inch metal connection to be used to any foot or telescope pump
1K1079—1 dz. pkg. Dz. $1.25

"GORILLA" Tires for puncture 6000 miles. See the special showing

BICYCLE PEDALS

"Standard"—Mfrs. No. 40 Rat Trap. Nickel plated and polished with wide tread rubber pads.
1K1005—1 pr. in carton. Pr. $1.00

"Pirate"—Mfrs. No. 5 Motorcycle type. Nickel plated with tread rubber pads.
1K1006—1 pr. in carton. Pr. $1.20

"Surplus"—Heavy rubber tread pads. Ball bearing, nickel plated metal parts. Knurled running boss and attractive pedal made.
1K1006½—1 pr. in box. Pr. $1.25

"OWL" LOCK & CHAIN

1K1044—Steel lock with chain for locking wheel to prevent theft complete with keys. 1 doz. in box. Doz. $2.15

BICYCLE STAND

1K1104—Black enameled ⅝ in. channel trim, patent locking device prevents bicycle being stolen easily attached neatest and most practical stand made. complete with mud guard clip. 1 in pkg. Each, 45c

BICYCLE TOOL KIT

1K1117—Leather bag with straps, contains wrench, oiler and tire repair kit. 1 in carton. Each, 60c

BICYCLE LUGGAGE CARRIERS

Platform Luggage Carrier—Baked rubber black enameled steel tube platform, all connecting points, will support extra passenger.
1K1109—1 in pkg. Each, 50c

Basket—Size 12x16 in., heavy sewed reinforced, wire trimmed, wire adjusts to steel braced three spring carrier straps.
1K1045—1 in pkg. Each 75c

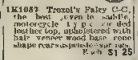
BICYCLE TOOL BAG

1K1060—Size 9x6 in. grained leather, heavy steel cable straps for attaching. Ea. 50c

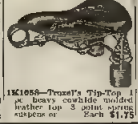
BICYCLE SADDLES

Each in bag, with clamps.

1K1054—Molded leather top, stitched to veneer wood base, upholstered with hair, 3 point wire spring suspension. Each $1.20

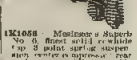


1K1082 Troxel's Paley C-C, the best, type in saddles, molded leather top, upholstered with hair, veneer wood base, coil shape rear suspension springs. Each $1.25



1K1058—Troxel's Tip-Top, a heavy cowhide molded leather top, 3 point spring suspension. Each $1.75

1K1039—Troxel's Top Notch motorcycle type, molded leather top mounted on veneer wood base, upholstered with soft hair, 3 point spring suspension. Each $1.80



1K1058—Monitor, a Superb No. 6, finest solid cowhide top, 3 point spring suspension, veneer wood rear springs easy riding, no side sway, fine nickel trim with universal clamp. Each $2.25

RACING SADDLE

1K1055—Troxel's Easto, solid cowhide top, side lip racing, 1 doz. wire springs. Each, $1.50

BICYCLE TIRES

CASINGS & TUBES

A complete selection from which you can pick a tire of any quality or price. We guarantee the value in each grade to be the finest that can be built for the price named. Dependable goods backed by our guarantee. You can have confidence in selling these tires to your trade. Buy here and be sure of receiving fullest value.

SINGLE TUBE BICYCLE TIRES

1K1050 1K1068-88 1K1063 1K1062 1K1064-65 1K1067 1K1069

"Comet"—2 ply fabric, narrow corrugated tread, non-guaranteed but dependable.
1K1050—28x1½ in. . . . . Each, $1.45

"Improved Congo, Jr."—A sturdy junior tire, same construction and design as 1K1067.
1K1068—24x1¾ in. . . Each, $1.50
1K1068—28x1¾ " . . . . . " 1.60

"U. S." 77 Chain Tread—Made by U. S. Tire Co., fabric built up to 4 ply on tread, chain design, black top, white sides.
1K1088—28x1¾ in. . . . . Each, $2.35

"Improved Congo"—2 ply fabric, non-skid distinctive tread design, treated with pure processing compound fills and stops any puncture while running.
1K1067—28x1½ in. . . . . Each, $1.75

"Red Racer"—A hard service tire, 2 ply 16 oz. motorcycle tirefabric, practically puncture proof, heavy studded All rod rubber thick cover stock, oil resisting, best friction. Hard to wear out.
1K1068—28x1½ in. . . . . Each $2.00

"Firestone" All Gray—Built up to three ply of fabric on tread, gray rubber non-skid special design tread.
1K1063—28x1½ . . . . . Each, $1.85

"Firestone" Red Tread—Built up to four ply of fabric on tread, cactus proof, white rubber side walls, special non-skid tread design.
1K1064—28x1½ . . . . . Each $2.25

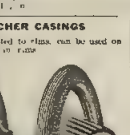
"Firestone" Black Motorcycle Fabric—All black rubber, heavy motorcycle tire fabric special non-skid tread design, a heavy duty tire.
1K1065—28x1½ . . . . . Each, $2.65

"Aero" Black Flyer Cord Construction 28in. cord fabric, same material as used in highest priced aero tires, oil resisting, coal black extra thick, very robust modern tread. A speed tire, very smooth riding.
1K1067—Starting size 28x1½ in. Each $2.15
1K1079—28x1¾ in. . . . . " 3.15

"Vitalic" De Luxe—Made by Continental Rubber Works, 2 ply, heavy motorcycle fabric, black cover stock, heavy rib non-skid vitalic tread design.
1K1018—28x1½ in. . . . . Each, $3.15

CLINCHER CASINGS

Easily adjusted to rims, can be used on 28x1¼ and 28x1½ rims.



"Paragon" Non-Skid 2 ply fabric, molded to shape, extra heavy tread stock, non-skid cross bar design, single clinch.
1K981—28x1½ in. . . . . Each, $2.00

"U. S." 6 & J. Double Clinch Made by the U. S. Tire Co., 2 ply fabric, corrugated tread, gray covered stock.
1K1018—28x1¾ in. . . . . Each, $2.75

"ORINOCO" WHITE FLYER BICYCLE TIRES & CASINGS

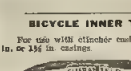
Figured on mileage delivered these tires and casings are easily worth 50% more than we ask.

Single Tube Tires—2 ply fabric heavy all ivory cover and tread stock, cactus proof, non-skid heavy studded tread. Quality construction, fully guaranteed.
1K1065—28x1½ in. . . . . Each
1K1066—28x1¾ " } $1.90
1K1062—28x1½ "

Clincher Casing—2 ply heavy fabric non-skid large studded extra heavy tread, single clinch.
1K1076—28x1½ in. Each, $2.15

BICYCLE INNER TUBES

For use with clincher casings, fits 28x1½ in. or 1¾ in. casings.



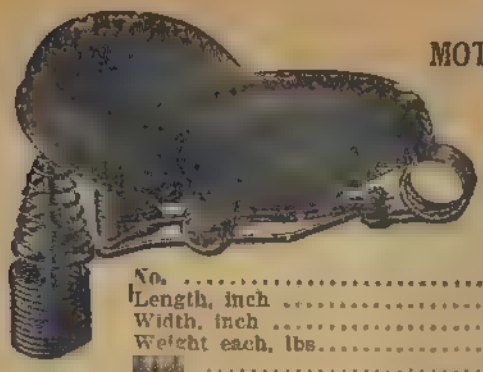
Ivory Gray—Extra heavy tough stock. A tube that will give service under hardest conditions. 1 in box.
1K1025—M & W butt end type } Each
1K1026—G & J endless type } $0.80

Red Pure Gum Stock—With sufficient tough cord elements added to insure long service. The best red tube made.
1K1027—M & W., butt end type } Each
1K1028—G & J., endless type } $0.80

SPORTING GOODS

See our complete line of Sporting Goods in this catalogue. All the most popular and best selling numbers are shown. GOOD PROFIT is allowed you on every number.

BICYCLE SADDLES



MOTOR BIKE NO. 2

Top is hair padded and formed to fit the shape over a 5-ply wood veneer base.

No.	2
Length, inch	10½
Width, inch	8½
Weight each, lbs.	3¼
Each	$4 50

EAGLE TIP TOP

Stretched leather. Two coil springs in rear, with shock absorbers. Coil spring in front.

Length, inch	9¾
Width, inch	7½
Weight each, lbs.	3¼
Each	$4 00

EAGLE SCOUT

Padded saddle. Two coil springs in rear with shock absorbers Coil spring in front.

Length, inch	9½
Width, inch	7½
Weight each, lbs.	3¼
Each	$3.50

EAGLE RACER

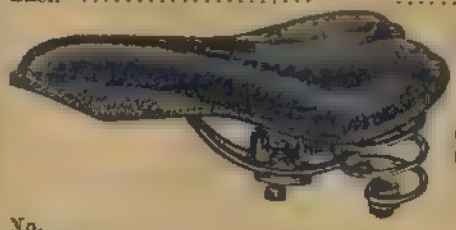
Stretched leather Truss spring. For road work.

Length, inch	10¾
Width, inch	7¾
Weight each, lbs	1¼
Each	$3 00

EAGLE EAZY

Stamped steel frame. Two cushion springs in rear, with shock absorbers. Coil spring in front.

Length, inch	10½
Width, inch	8½
Weight each, lbs.	3¼
Each	$4.25



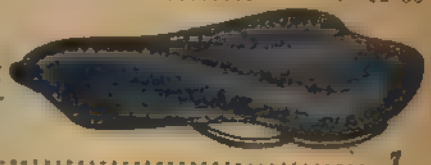
LADIES NO. 14

A short, heavily padded saddle for rough riding. Divided center.

No.	14
Length, inch	8¼
Width, inch	8
Weight each, lbs.	1½
Each	$2 50

LADIES NO. 7

Grain leather, stitched and padded. Hollow center.



No.	7
Length, inch	8¼
Width, inch	8
Weight each, lb.	1
Each	$2.25

SADDLE CLAMPS

Standard pattern. Drop forged steel, nickel plated.

No.	1
Weight per dozen, lbs.	3¼
Per dozen	$3 00

Loose

CHALFANT

Nickel plated. For frame of 1-inch tubing.

Weight per dozen, lbs.	3
Per dozen	$7.20

One-twelfth dozen in a box

TOOL BAGS

Mens black grain leather, complete with straps, 7x2¾x1½ inches.

No.	200 G
Weight per dozen, lbs.	3
Each	$0 60

Mens split leather, complete with straps, 7x2¾x1½ inches.

No.	200 S
Weight per dozen, lbs.	4
Each	$0 70

Mens tan leather pocket bag, complete with straps, 7¾x3x1 inches.

No.	150
Weight per dozen, lbs.	2
Each	$0 50

BICYCLE ACCESSORIES

BELLS

NEW DEPARTURE

Best grade bell metal

No.	84 C
Gong, inch	2¾
Weight per dozen, lbs.	11
Per dozen	$28.00

No.	35 C
Gong, inch	2¼
Weight per dozen, lbs.	8
Per dozen	$21.00

One-twelfth dozen in a box; one dozen in a carton.

BEVINS

Rotary movement. Works smoothly and will not catch.

No.	2/0
Gong, inch	2¼
Weight per dozen, lbs.	8
Per dozen	$18.00

One-twelfth dozen in a box; one dozen in a carton.

Push button continuous electric ring American flag enameled in colors.

No.	31
Gong, inch	2¼
Weight per dozen, lbs.	6½
Per dozen	$15.00

One-twelfth dozen in a box; one dozen in a carton.

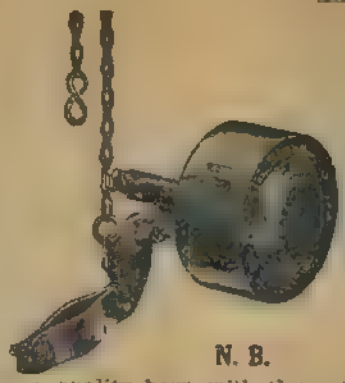
Rotary electric stroke.

No.	810
Gong, inch	1¾
Weight per dozen, lbs.	3
Per dozen	$5.00

One-twelfth dozen in a box; one dozen in a carton.

HORNS

MAJESTIC



Has double ball bearings, adjustable to wear. Triple nickel plate.

Weight each, lbs.	1¼
Each	$1.50

One-twelfth dozen in a box.

N. B.

A quality horn with the auto tone, having no small springs, ratchets or pawl Diaphragm with adjustable contact point Finished in all black enamel with nickel plunger. Complete with bracket.

Size, inch	3⅛x4½
Weight, ozs	11½
Each	$1.50

ROLLFAST HORN

A miniature automobile horn. Finished in Black or Khaki. Emits loud sound at the slightest touch of the plunger. Every part interchangeable. Furnished with two brackets, one for handle bar and one for top bar of frame.

Size, inch	3x3
Weight each, lbs.	1¼
Each	$2.50

One-twelfth dozen in a box

WHISTLES

UNIVERSAL

Nickel plated brass tubes, flat mouthpiece steel chain and hook.

Nos.	1	3
Length, inch	3½	2½
Weight per dozen, lbs	¾	½
Per dozen	$3.50	3.00

One dozen in a box

DEVELINE

Nickel plated brass tube. Flattened mouthpiece.

No.	151
Length, inch	2
Weight per dozen, lb	¾
Per dozen	$3.00

One dozen in a box

ECHO CALL

Nickel plated.

No.	620
Size, inch	1½
Weight, ozs	8
Per dozen	$3.50

BICYCLE ACCESSORIES

BELLS

NEW DEPARTURE

Best grade bell metal

No.	31 C
Gong, inch	2¾
Weight per dozen, lbs.	11½
Per dozen	$28.00

No.	35 C
Gong, inch	2¼
Weight per dozen, lbs.	8
Per dozen	$21.00

One-twelfth dozen in a box; one dozen in a carton.

BEVINS

Rotary movement. Works smoothly and will not catch.

No.	2/0
Gong, inch	2¼
Weight per dozen, lbs.	8
Per dozen	$18.00

One-twelfth dozen in a box; one dozen in a carton.

Push button continuous electric ring. American flag enameled in colors.

No.	31
Gong, inch	2¼
Weight per dozen, lbs.	5½
Per dozen	$15 00

One-twelfth dozen in a box; one dozen in a carton.

Rotary electric stroke.

No.	810
Gong, inch	1¾
Weight per dozen, lbs.	3
Per dozen	$5.00

One-twelfth dozen in a box; one dozen in a carton.

SIREN

MAJESTIC

Has double ball bearings, adjustable to wear. Triple nickel plate.

Weight each, lbs.	1¼
Each	$1.50

One-twelfth dozen in a box.

N. B.

A quality horn with the auto tone, having no small springs, ratchets or pawl. Diaphragm with adjustable contact point. Finished in all black enamel with nickel plunger. Complete with bracket.

Size, inch	3½x4½
Weight, ozs	11½
Each	$1.50

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A miniature automobile horn. Finished in Black or Khaki. Emits loud sound at the slightest touch of the plunger. Every part interchangeable. Furnished with two brackets, one for handle bar and one for top bar of frame.

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Weight each, lbs.	1¼
Each	$2.50

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One dozen in a box

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No.	151
Length, inch	2
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Per dozen	$3.00

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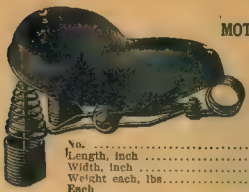
Nickel plated.

No.	620
Size, inch	1½
Weight, ozs	8
Per dozen	$3.50

BICYCLE SADDLES



MOTOR BIKE NO. 2

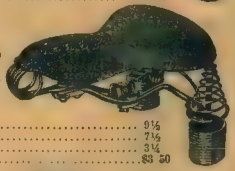
Top is hair padded and formed to fit the shape over a 5-ply wood veneer base.

No.	2
Length, inch	10½
Width, inch	8½
Weight each, lbs.	3¼
Each	$4.50

EAGLE TIP TOP

Stretched leather. Two coil springs in rear, with shock absorbers. Coil spring in front.

Length, inch	9¾
Width, inch	7½
Weight each, lbs.	3¼
Each	$3.00



EAGLE SCOUT

Padded saddle. Two coil springs in rear with shock absorbers. Coil spring in front.

Length, inch	9½
Width, inch	7½
Weight each, lbs.	3¼
Each	$3.50

EAGLE RACER

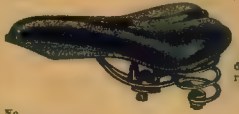
Stretched leather Truss spring. For road work.

Length, inch	10¾
Width, inch	7¾
Weight each, lbs.	1¼
Each	$3.00

EAGLE EAZY

Stamped steel frame. Two cushion springs in rear, with shock absorbers. Coil spring in front.

Length, inch	10½
Width, inch	8¾
Weight each, lbs.	3¼
Each	$4.25



LADIES NO. 14

A short, heavily padded saddle for rough riding. Divided center.

No.	14
Length, inch	8¼
Width, inch	8
Weight each, lbs.	1¼
Each	$2.50

LADIES NO. 7

Grain leather, stitched and padded. Hollow center.

No.	7
Length, inch	8¼
Width, inch	8
Weight each, lb.	1
Each	$2.25

SADDLE CLAMPS

Standard pattern. Drop forged steel, nickel plated.

No.	1
Weight per dozen, lbs.	2¼
Per dozen	$3.00

Loose

CHALFANT

Nickel plated. For frame of 1-inch tubing.

Weight per dozen, lbs.	3
Per dozen	$7.20

One-twelfth dozen in a box

TOOL BAGS

Mens black grain leather, complete with straps, 7x2¾x1½ inches.

No.	200 G
Weight per dozen, lbs.	3
Each	$0.60

Mens split leather, complete with straps, 7x2¾x1½ inches.

No.	200 S
Weight per dozen, lbs.	2
Each	$0.70

Mens tan leather pocket bag, complete with straps, 7¾x3x1 inches.

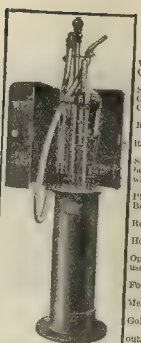
No.	150
Weight per dozen, lbs.	2
Each	$0.50

Kelley-How-Thomson Co. of Duluth

GASOLINE STORAGE OUTFITS

BIG GUSHER ROADWAY

Pumps Measures 1, 2, 3, 4 or 5 Gallons



Pumps and Tanks are Tested, Inspected and Labeled by the National Board of Fire Underwriters

Cabinet—The Cabinet Encasing Pump Is Built of ⅞ in. Iron; the Doors Overlap, making It Weather Proof. Doors are Fitted with Best Corbin Six-Tumbler Lock; a Small Door at Bottom of Pedestal Gives Access to Pipe Union

Pump—Is of our Long Distance Type, Adjusted to Measure 1, 2, 3, 4 or 5 Gallons at a Stroke 9 in Seamless Brass Cylinder, 3 in Brass Piston Rod, Heavy Brass Valves and Starting Box; Cut Steel Gears, Bronzed Bushed and Protected by Gear Guard; Case Hardened Bearings and Spindles; Normal Capacity 25 Gallons per Minute.

Automatic Gear Shift—For Quick Return of Rack Bar, which can be Reversed at a Ratio of One Reverse Motion of the Handle to Five Forward Turns

Gallon Meter—Keeps an Accurate Check on all Gasoline drawn up to 99,999 Gallons, at which Point It Reverts to 0000. Large Legible Figures Stamped in Iron Metal. Built with the Precision of a Watch Seals the Gasoline from Water, and other Foreign Matter which Gravitates down to the Settling Chamber and is Drawn Off Through Auxiliary Pump Attached to Pump Plate This Pump is Securely Locked when not in use.

Indicator—An Aluminum Etched Dial is Attached to Front of Rack Bar and is Calibrated for Every Pint from One Pint to Five Gallons, Showing at a Glance the Amount Pumped in Pints, if Stopped Between Gallon Buttons

Discharge Register—Automatically Tallies Every 5 Gallons Pumped from 0 to 50 Gallons and is Reversed from Any Point

Hose Draining Valve—The 1¼ in Discharge Pipe Extends 24 in Above Pump and Terminates in a Hose Draining Valve that Automatically Shuts Off the Supply and Allows the Hose to Drain Out Clear.

Hose and Filling Nozzle—Each Outfit Carries Equipped with 8 ft of 1¼ in Steel Lined Hose and Open Type Filling Nozzle with Strainer. Filling Nozzle End of Hose is Locked in Cabinet when not in use. **Automatic Door Stop**—Holds Door Right While Operating Pump

Removable Pump Handle—Handle may be Slipped Off and Carried in the Building, Making Pump Fool and Mother Proof

Quantity Stops—For 1, 2, 3, 4 and 5 Gallons are Located in Front on Pump Standard; to Change Measurement it is but necessary to Push in the Nickeled Disc Stamped with the Quantity Desired.

Finish Pumps and Cabinet are Highly Finished in Vermilion Enamel, with Nickel Trimmings and Gold Lettering

Tanks—Are Built in Any Capacity and Any Gauge of Galvanized Steel; Riveted and Soldered Throughout.

COMPLETE OUTFITS

Consisting of Pump and Tank, Complete with Fittings, but No Pipe

With 12 Gauge Tank

Nos.	Capacity Bbls.	Capacity Gals.	Weight, Lbs.	Each
50A-2	2	120	1030	$340.00
50A-3	3	170	1090	355.00
50A-4	4	220	1160	370.00
50A-5	5	280	1230	385.00
50A-6	6	335	1300	400.00
50A-8	8	390	1370	415.00
50A-9	9	445	1440	430.00
50A-10	10	500	1510	445.00
		750	1580	460 00

With 14 Gauge Tank

Nos.	Capacity Bbls.	Capacity Gals	Weight, Lbs	Each
50B-2	2	120	900	$42 00
50B-3	3	170	1040	341 00
50B-4	4	220	1100	453 00
50B-5	5	280	1160	365 00
50B-6	6	335	1200	377 00
50B-7	7	390	1280	389 00
50B-8	8	445	1340	401 00
50B-9	9	500	1400	413 00
50B-10	10	750	1460	425 00

No. 50E—When so ordered Pump is Equipped with Electric Lamp. Fixture Cabinet is Wired for Connecting to Local Circuit ..... $ 00

WITH ELECTRIC LAMP

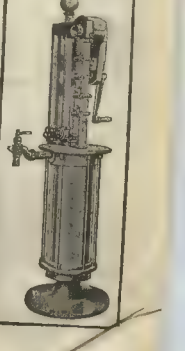
MOGUL

Pumps Measures 1, 2, 3, 4 or 5 Gallons

Pump and Tank is Tested, Labeled and Approved by the National Board of Fire Underwriters

The Pump is Adjusted to Measure Either 1, 2, 3, 4 or 5 Gallons at a Stroke is Built of Heavy Wrought and Cast Iron; with Cylinder, Valves, Stuffing Box and Piston Rod of Brass; Cut Steel Gears Bronzed Bushed and Protected by Gear Guard, Case Hardened Bearings and Spindles, Positive Locking Device; Discharge Register, Etched Aluminum Indicator; Independent Nozzles for Hose Connections or for Filling Cans, Automatic Gear Shift, Finished in Vermilion Enamel and Polished Brass with Nickel Trimmings; Normal Capacity Twenty five Gallons per Minute

The Tanks are Built of Any Capacity and Any Gauge of Steel, Riveted and Soldered Throughout and Painted with Three Coats Rust-Resisting Paint; Fitted with Double Brass Foot Valves, Double Fill Pipes with Strainers and Lock Cap.



COMPLETE OUTFITS

Consisting of Pump and Tank, Complete with Fittings, but No Pipe

With 12 Gauge Tank

Nos.	Capacity Bbls.	Capacity Gals	Weight, Lbs.	Each
52A-2	2	120	610	$225.00
52A-3	3	170	680	240 00
52A-4	4	220	750	255 00
52A-5	5	280	820	270.00
52A-7	7	390	960	300 00
52A-9	9	500	1100	330 00
52A-10	10	551	1170	345 00

With 14 Gauge Tank

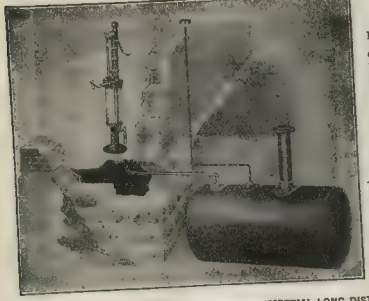
Nos.	Capacity Bbls.	Capacity Gals.	Weight, Lbs.	Each
52B-2	2	120	570	$214 00
52B-3	3	170	630	226 00
52B-4	4	220	690	238 00
52B-5	5	280	750	250 00
52B-7	7	390	870	274 00
52B-9	9	500	990	298 00
52B-10	10	550	1050	310 00

When so Ordered, and at Additional Cost we will Furnish Extra Attachments as Shown in Pump Built Equipped. These are Described above under Standard Equipment of No 50 Pump

EXTRA ATTACHMENTS

	Each
100,000 Gallon Meter	$35.00
Gravity Filter	25.00
1¼ in. Steel Lined Hose, per Ft	1 25
1¼ in. Filling Nozzle, Open Type	3 00
1¼ in. Filling Nozzle, Shut-Off Type	6 00
Hose Draining Valve	10 00
2 in. Galvanized Iron Pipe, per Ft	.40

Kelley-How-Thomson Co. of Duluth
GASOLINE STORAGE OUTFITS



Designed Especially for Inside Discharge

The Pump is located inside the Building at Most Suitable Location, while Tank is Buried and Filled Outside.

The Pump is Adjusted to Measure Gallons, Half-Gallons, Quarts or Pints at a Stroke, is Built of Cast and Wrought Iron with Cylinders, Valves, Stuffing Box and Piston Rods of Brass. Cut Steel Gears are Used, and Throughout the Construction of the Best. It is Furnished in Vermilion Enamel with Nickel Trimmings.

The Pump is Equipped with Discharge Register that Automatically Tallies Every Gallon Pumped from **0 to 10 Gallons**; with Safety Automatic Shut-off Cock and Locking Device. Requires but Two and One-half Turns of the Handle to Discharge a Gallon, Giving an Actual Pumping Capacity of Ten Gallons per Minute.

The Tanks are Built of Galvanized Steel, Riveted and Soldered Throughout and Coated with Three Coats Rust-Resisting Paint. Each Tank is Fitted with Heavy Brass Double Foot Valves, Double Fill Pipes with Strainers and Lock Cap.

With Each Outfit we Furnish Locks and Keys, Bolts for Fastening Pump, Measuring Stick for Tank, Two 1½ in. Pipe Unions and Complete Instructions for Installing. No Pipe is Furnished, however.

IMPERIAL LONG DISTANCE

Pumps and Tanks are Tested, Labeled and Approved by the National Board of Fire Underwriters

Nos.	With 12 Gauge Tank: Capacity Bbls.	Capacity Gals.	Weight Lbs.	Each	Nos.	With 14 Gauge Tank: Capacity Bbls.	Capacity Gals.	Weight Lbs.	Each
175A-1	1	65	300	$110 00	175B-1	1	65	270	$102 00
175A-2	2	120	370	125 00	175B-2	2	120	330	114 00
175A-3	3	170	440	140 00	175B-3	3	170	390	126 00
175A-4	4	220	510	155 00	175B-4	4	220	450	138 00
175A-5	5	280	580	170 00	175B-5	5	280	510	150 00

EXTRA ATTACHMENTS

	Each
10,000 Gallon Meter	$25 00
Gravity Filter	15 00
Hose Drainage Valve	10 00
Hose Filling Nozzle, 1 in. Open Type	2 50
Hose Filling Nozzle, 1 in. Shut-Off Type	5 00
1 in. Steel Lined Hose, per Foot	1 00

STANDARD ROUND TANKS

Capacity Bbl.	Capacity Gal.	Dimensions Diam., In.	Dimensions Length, In.	12-Gauge Tanks Each	14-Gauge Tanks Each
1	65	27	30	$35 00	$27 00
2	120	31	41½	50.00	39 00
3	170	38½	37½	65.00	51 00
4	220	38½	48	80 00	63 00
5	280	38½	60½	95.00	75.00
6	335	38½	72	110.00	87 00
7	390	38½	83½	125 00	98 00
8	445	38½	95	140 00	111.00
9	500	38½	106½	155 00	123 00
10	550	38½	117	170 00	135 00
15	800	46½	116	230 00	.....
20	1100	46½	159	290 00	.....

List Prices include Double Foot Valves and Suction Pipe in Tank, Double Fill Pipe with Strainers, Lock Cap, Lock and Keys, Measuring Stick, One Galvanized Iron Pipe Union.

PUMPS ONLY

	Each
No. 175—Japanned Long Distance Pump; Weight 150 Lbs.	$75 00
No. 49—Railway Pump and Cabinet; Weight 400 Lbs.	175 00
No. 52—Metal Long Distance Pump; Weight 280 Lbs.	150 00
No. 50—Big Gusher Railway Pump; Weight 75 Lbs.	30 00
No. 55-65—FF Quart Stroke Pump; Weight 75 Lbs.	.....

List prices include all parts as furnished with standard equipment, but do not include accessories, prices of which will be found under price list of complete equipment under head of "Extra Attachments."

SOCKET HOLDERS

BILLMONT

JUNIOR WRENCH

A big, husky wrench, 11¼ in. long, of great strength and capacity. Nickel and Parker rust-proof finish.

Similar to Master Wrench, excepting nose is straight instead of curved. Sliding T-bar handle permits tremendous pressure and complete turn on nut with great speed. Nickeled hand grip at center gives firm hold while operator revolves inner tube and nose with T-bar handle, thereby spinning off nut. Socket nose is so constructed to take 24 sizes in Bilmont sockets—giving complete size range with only one wrench. Patent spring lock holds socket in place.

No. 2—Junior. Wt., 1½ lbs...Each, $3.25

SHORT T

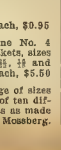
Like other Billmont Socket Holders, nose is made to take 24 sizes of Billmont Sockets, giving varied range of jobs without need of more than one wrench. Short T and 24 sockets really makes 24 complete wrenches. The solid bar handle equalizes strain put on wrench, giving unusual strength for this type. Length, 6 in. Nickel and Parker rust-proof finish.

No. 3—Weight, 1 lb. ..... Each, $0.90

No. 3000—Set consists of one No. 3 Holder and 10 Hexagon Sockets, sizes ⅞, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜ and 1½ in.....Each, $5.45

This set will cover the range of sizes contained in the entire series of ten different short handle T wrenches made by Walden, Blackhawk or Mossberg.

LONG T



Similar in every detail except size (which is 12 in. long) to the short T Socket Holder. The Billmont principle of few wrenches and a universal nose piece makes possible the carrying of a complete range of tools in a small kit—eliminating necessity of many wrenches each of a different size. This line and one set of sockets completes any man's outfit and takes up very little space.

No. 4—Weight, 1¾ lbs.....Each, $0.95

No. 4000—Set consists of one No. 4 Holder and 10 Hexagon Sockets, sizes ⅞, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜ and 1½ in.....Each, $5.50

This set will cover the range of sizes contained in the entire series of ten different long handle T wrenches as made by Walden, Blackhawk or Mossberg.

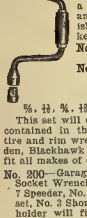
OFFSET

Handle designed with upward bend gives unusual clearance. As in other Billmonts, universal nose takes 24 sizes in Billmont sockets.

No. 5—Weight, 1 lb.....Each, $0.75

No. 5000—Set contains one No. 5 Offset Socket Holder and 10 Hexagon Sockets, sizes ⅞, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜ and 1½ in..... Each, $5.50

RIM BRACE



Not only adaptable for rim work, but popular with car owners and repair men, because nose piece takes 24 sizes in Billmont sockets, creating a wrench of many uses and great service. Finished in nickel and Parker rust-proof.

No. 6—Weight, 2 lbs. .....Each, $1.50

No. 6000—Set consists of one No. 6 Rim Brace Socket Holder and five Hexagon Sockets, sizes ⅝, 1⅛, ¾, 1¼ and 1⅜ in...Each, $4.00

This set will cover the range of sizes contained in the entire series of five tire and rim wrenches as made by Walden, Blackhawk and Mossberg and will fit all makes of demountable rims.

No. 200—Garage Set. Consists of five Socket Wrench Holders, one each No. 7 Speeder, No. 6 Rim Brace, No. 5 Offset, No. 3 Short T, No. 4 Long T. Each holder will fit every one of the 24 different size sockets.....Per set, $6.40

No. 2000—Set consists of the five holders as contained in the No. 200 set, with the addition of ten hexagon socket sizes ⅞, ½, ⅝, 1⅛, ¾, 1¼, ⅞, 1½ and 1⅜ in.....Each, $9.95

With this set it is possible to cover the complete range of ten long handle T wrenches, ten short handle T wrenches, ten offset wrenches, ten speed wrenches and five rim wrenches as made by Walden, Blackhawk or Mossberg and at a cost of about one-third.

SPEEDER

An unusually popular speeder because nose piece takes all Billmont sizes (24 in all) of sockets. This speeder and one set of Billmont sockets gives a complete speeder outfit with only one wrench to carry.

No. 7 Hardened steel, Parkerized and capable of a wide range of jobs. Weight, 2 lbs. .....Each, $1.30

No. 7000—Set consists of one No. 7 Speed Socket Holder and 10 Hexagon Sockets, sizes ⅞, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜ and 1½ in. .....Per set, $5.85

This set will cover the range of sizes contained in the entire series of 10 different brace speed wrenches as made by Walden, Blackhawk or Mossberg.

No. 2300—Set consists of the five holders as contained in the No. 200 set and the No. 300 set of 24 sockets. With this set it is possible to reach 120 different size nuts and bolts. This is an especially useful set for the garage or machine shop...Each, $17.90

BILLMONT DISPLAY BOARD

Merchandise well displayed is half sold. Give the car owner a chance to sell himself while you may be busy otherwise. This Display Board, lithographed in three colors on sheet steel and backed and mounted on very finely finished hardwood, will increase wrench sales. Easel backed with hanger, size 2x5 feet. Given with the following assortment:

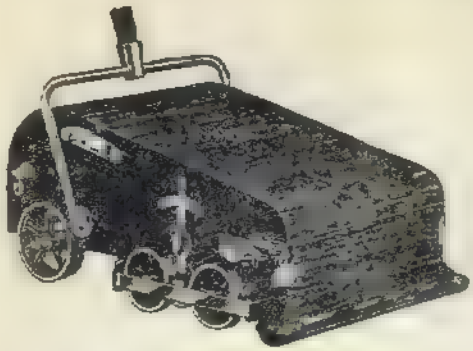
3 Master Wrench Sets.
3 Junior Wrench Sets.
10 Short T Socket Holders.
10 Long T Socket Holders.
10 Offset Socket Holders.
10 Speeder Socket Holders.
10 Rim Brace Socket Holders.
1 Display Board—free.

No. 150—Display Board Outfit....$95.25

SEATTLE HARDWARE COMPANY

VACUUM SWEEPERS

BISSELL'S



"SUPERBA"

Leaves Nothing to be Desired in Points of Utility or Appearance. Very Handy to Empty and Unusually Easy to Run With Its Substantial Weight and Perfect Balance Gives an Extraordinary Cleaning Efficiency. The Construction of the Rear-Opening Dust Bag (which is Attached to Nozzle as One Piece) is of the Very Best Type. No More Convenient or Sanitary Method of Emptying the Dust Could be Devised. Equipped with Bissell's "No Mar" Rubber Corner Cushions. The Classic Design and Elegant Finish of the Curved Case in Quartered Golden Oak or Figured Mahogany or 18th Century Brown Mahogany Finish are Evidence of the Superior Workmanship it Contains. Full Nickeled Fittings.

Per Dozen

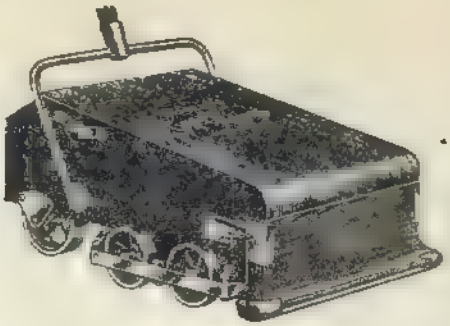
No. 900—17½ x 12 x 7½ Inches **$176.40**
One in a carton. Weight, each about 17½ pounds

"HOUSEHOLD"

Embodies Bissell Efficiency and Convenience. Neat and Strongly Built. Case of Gum Wood Veneer, Reddish Mahogany Gloss Varnish Finish. Japanned Fittings.

Per Dozen

No. 550—16½ x 11½ x 7½ Inches **$128.00**
One in a carton. Weight, each, about 15½ pounds

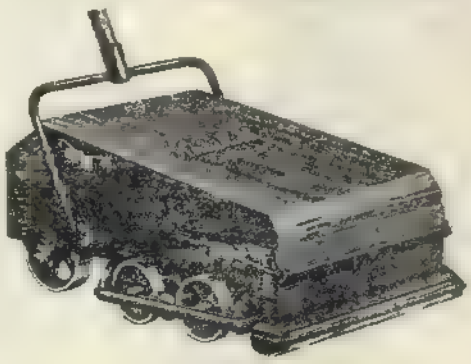


"GRAND RAPIDS"

Great Suction Power, Neatness and Compactness of Design, Ease and Convenience of Operation, "No Mar" Rubber Corner Cushions and a General Sturdiness of Construction. Case of Gum Wood Veneer, 18th Century Brown Mahogany, "Dull Rub" Effect. Varnish Finish. Nickel Fittings.

Per Dozen

No. 750—16½ x 12 x 7½ Inches **$148.00**
One in a carton. Weight, each about 16½ pounds



No. 550

VACUUM CLEANERS

NEW PRINCESS HAND OPERATED

Gets the Dirt. Easy of Operation. Compact and Convenient Shape. Pump Bellows Work Quickly. Valves Positive in Action. Dirt Bag Easy to Remove. Carefully Enameled. Detachable Parts Heavily Nickel Plated. Attractive in Appearance. Length, 16 Inches. Width, 6 Inches. Height, 6½ Inches.

Each

New Princess $12.00 **$10.00**

Weight, each, about 8 pounds.

EXTRA ATTACHMENTS

No. 375 { 1 Hose 3½ Feet Long
1 Metal Cover for Use with Hose.
1 Drapery and Curtain Tool.
1 Upholstery Tuft Cleaner. } Per Set **$7.50**

BISSELL'S CARPET SWEEPERS

UNIVERSAL

Similar to Grand Rapids in Construction, but does not have the "No Mar" Rubber Corner Cushions. Made in Golden Famed Oak and Brown Mahoganized Sycamore. Best Quality Brush, and Both Pans Dump in One Operation. **Cyco Bearings.**

	Per Dozen
No. 100—Japanned Trimmings	**$66.00**
No. 200 Nickeled Trimmings	**76.00**

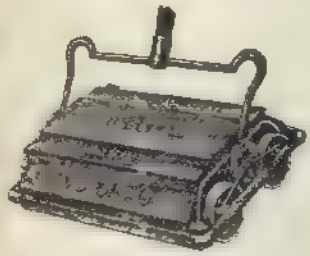
Weight, per dozen about 95 pounds

CROWN JEWEL

Well Made in Every Particular and Will Give Good Service. Has Anti-Tipping Device. Furniture Protector Holder. Metal Ferruled Handle and Pure Bristle Brush that is Self-Adjusting to all Grades of Carpets. Each Pan Dumps Separately. Birch Veneer Case in Mahogany High Varnish Finish. **Cyco Bearings.**

	Per Dozen
No. 300—Japanned Trimmings	**$40.00**

Weight, per dozen, about 90 pounds



"IDEAL"

The "Ideal" is a High Grade Sweeper at a Very Attractive Price. It Comes in Curly Birch Mahoganized, and Bird's Eye Maple Veneers. Hand Polish Finish. The "Ideal" Contains all the "Bissell" Improvements and Best Quality Brush. Each Pan Dumps Separately.

	Per Dozen
No. 1000—Nickeled Trimmings	**$82.00**

Weight, per dozen, about 100 pounds.

EXTRA BRUSHES

FOR BISSELL'S SWEEPERS

Five Rows 1¼-Inch Best Quality Bristles. Length of Brush, 12 Inches.

	Per Dozen
No. 8	**$14.00**

Loose. Weight, per dozen, about 6 pounds

EXTRA HANDLES

FOR BISSELL'S SWEEPERS

	Per Dozen
No. H—Hardwood. Length, 3½ Feet	**$3.00**

Loose. Weight, per dozen, about 100 pounds.

EXTRA TIRES

FOR BISSELL'S SWEEPERS

	Per Dozen
No. 258—Fits all Sweepers	**$2.40**

Loose.

We Especially Solicit and Pay Particular Attention to Mail Orders

HANDLED SINGLE BIT AXES

BLACK HAWK

CHARCOAL FINISH

Hand Forged from Genuine Black Diamond Crucible Steel. Warranted free from Flaws or Soft Temper. Accurately and Uniformly Punched Eyes. Each Axe Bears an Attractive Red Chieftain Gold Bronzed Label.

BALTIMORE KENTUCKY PATTERN
Bent Oval Handles No. 1 Grade

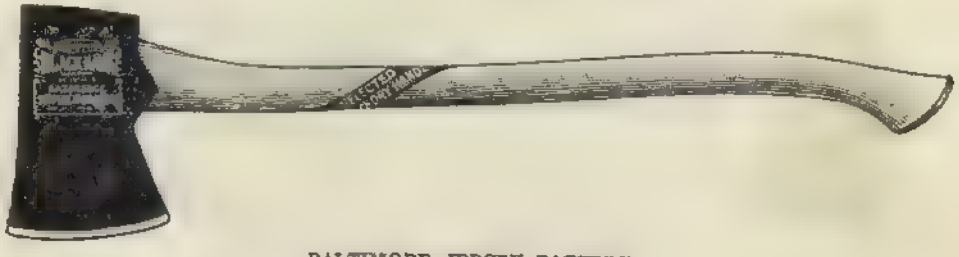
Weights, Heads Assorted, Lbs			
Length of Handles	3½ to 4½	4 to 5	
Per Dozen	36	36	
	$37.50	**38.00**	

One dozen in a case.

PHILADELPHIA JERSEY PATTERN
Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs			
Length of Handles	2 to 2½	2½ to 3	3 to 3½
Per Dozen	32	32	32
	$37.00	**37.00**	**37.00**

One dozen in a case



BALTIMORE JERSEY PATTERN
Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs		
Length of Handles	3½ to 4½	4½ to 5½
Per Dozen	34	36
	$37.50	**38.50**

One dozen in a case

KELLY'S FLINT EDGE AXES—Natural Black Finish—Can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern or Weight as Listed Above.

HANDLED SINGLE BIT AXES

BLACK HAWK

CHARCOAL FINISH

Genuine Black Diamond Crucible Steel Used in the Manufacture of these Axes. Hand Forged Warranted Free from Flaws or Soft Temper An Attractive "Black Hawk" Embossed Label on Each Axe

DAYTON PATTERN

Bent Oval Handles No. 1

Weights, Heads, Assorted, Lbs.	3 to 4	3½ to 4½	4½ to 5
Length of Handles	34	36	36
Per Dozen	$37.00	37.50	39.00

One dozen in a box, handles burlapped

MICHIGAN PATTERN

Extra Bent Oval Handles

Weights, Heads, Assorted, Lbs	3½ to 4¼
Length of Handles	34
Per Dozen	$39.20

One dozen in a closed wooden case.

DELAWARE PATTERN

Bent Oval Handle No. 1

Weights, Heads, Assorted, Lbs	3¼ to 3¾	3½ to 4¼
Length of Handles	34	34
Per Dozen	$37.00	37.50

One dozen in a box, handles burlapped

KELLY'S Flint Edge as Above can be Furnished Direct From Factory Only in Lots of 5 Dozen or More, One Shipment. Any Pattern or Weight as Listed Above.

BLUE FLAME WICKLESS OIL STOVE
Without Legs
Made with One, Two or Three Burners

This Blue Flame Wickless Oil Stove is made of the best of materials by the same workmen in the same factory as our highprice Oil Stoves. It is especially suitable when placed upon a table or bench. The frame is entirely enclosed on sides, top and back and is very rigidly and strongly put together. **Burners** are the same as used in our highest grade stoves. Made in three sizes. Securely crated and shipped direct to you from Ohio factory

	Burners on Top	Size of Top	Height	Weight	Price
S-6043	1	14x14	10 in	17	**$5.50**
S-6044	2	22x14	10 in.	25	**7.15**
S-6045	3	31x14	10 in	30	**9.95**

For prices on Ovens see illustration and prices below.

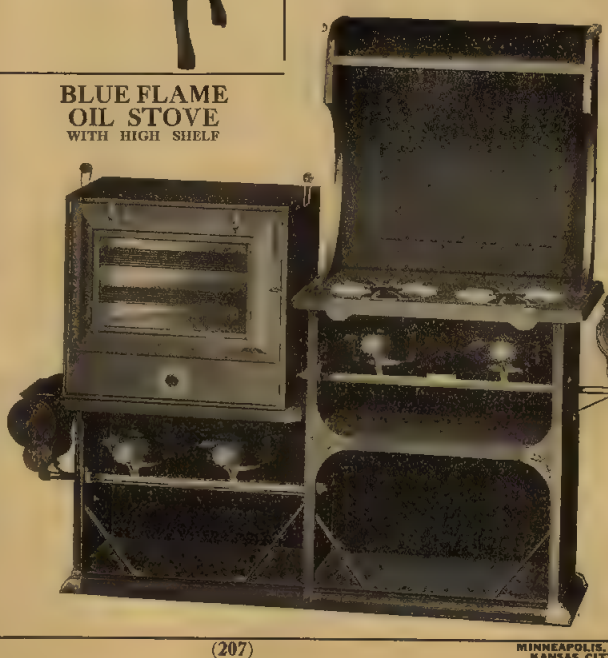
BLUE FLAME WICKLESS OIL STOVE
With Legs
Made with Two,, Three or Four Burners

This is a very popular style of Blue Flame Wickless Oil stove, it is preferred by many on account of it having legs so that it can be used without being put on a table or box. Made of the very best of materials throughout. **The burners and burner equipment** on these stoves are gigantic in size and are made in such a way that they produce an extremely large flame with a very small consumption of fuel. More baking and cooking can be done and done quickly on this stove, with a smaller amount of kerosene or coal oil than can be done on any other Blue Flame Range ever invented. The surpassing excellence of the construction will exceed your fondest imagination. Made with two, three and four burners. Note prices. All stoves are securely crated and shipped direct to you from Ohio factory.

	Burners on Top	Size of Top	Height	Weight	Price
S-6046	2	24x16	29 in.	45 lbs.	**$12.95**
S-6047	3	36x16	30 in.	55 lbs.	**$16.85**
S-6048	4	45x17	30 in.	80 lbs.	**$21.50**

For prices on ovens see illustration and prices below.

BLUE FLAME OIL STOVE
WITH HIGH SHELF



This Blue Flame Wickless Oil Stove is constructed of the same high grade steel, as all of our Oil stoves, it is strongly braced and has a large number of commodious apartments for cooking utensils. The high shelf is a valuable addition. Burners are exceptionally high class, are removeable and cannot flood. Has an all braced lower tank with reservoir. Each stove is carefully tested and guaranteed not to smoke or to give complete satisfaction in every way. **Made with two burners on top and two burners on step, as per illustration.** Size of main top 23 x18 inches, size of step 31x14 inches, length 60 inches, weight 115 pounds, carefully crated and shipped direct from Ohio factory. **Price does not include Oven.**

S-6049—Oil Stove **$32.95**

S-6050—We can furnish a Blue Flame Wickless Oil Stove as described above and as illustrated at left with three burners on top and two burners on step, the length being 75 inches for **$37.50**

OVENS

We can furnish ovens for our oil stoves as per illustration of oven on stove at left. These ovens are lined with asbestos and have a system of tin flues that make them thoroughly ventilated, fine bakers **Door is fitted** with a large plate glass door making an almost air tight interior. This oven makes an appreciated addition to the Oil Stoves described on this page. Every Oven warranted. All ovens are shipped K. D. direct to you from Oh io factory and take a low freight rate.

S-6051 -Small oven, size 12x12x12 inches, with glass door **$3.10**

S-6052 Large oven, size 20x18x13 inches with glass door..... **5.95**

NEW PROCESS OIL STOVES

MADE IN TWO SIZES

S-6038 Oil Stove
Height 27½ inches.
Width 12 inches.
Depth 12 inches.
Capacity of Fount, 1 gallon
Shipping Weight, 14 lbs.

Our New Process Oil Stoves are of the very latest designs and are so constructed that they give more heat on less fuel than any other oil stove on the market.

The plain straight lines of these two New Process heaters are extremely pleasing. Their dull, ebony black surfaces are well set off by the nickel trimmings.

A patented, exclusive feature of this model is its "furnace" construction. A central flue, running from the burner to the top of the stove furnishes draft for a plentiful supply of air, insuring complete combustion and greatest economy of fuel.

Surrounding this flue is the hot air chamber. This takes cold air from the floor and warms it, throwing it out at the top. It assures a positive circulation of warm fresh air at all times.

Strike a match and instantly you have a full flame of great intensity and power. This is due to the construction and design of the flame spreader which keeps the wick even and permits adjustment to just the proper height.

The simple design of this burner enables the stove to be cared for with a minimum of attention. It is wonderfully efficient and furnishes abundant heat at the lowest cost. The flame is intensely hot and smoke-

Rewicking—necessary only once in a normal season—is made very easy indeed with this New Process wick. Enclosed in a metal sleeve, it can be inserted in thirty seconds.

The generous oil fount holds a gallon of kerosene, fuel for eight hours' continuous burning. The well in the bottom of the tank supplies oil to the wick as long as there is any in the fount. An indicator shows the amount of oil present.

Our New Process Oil Stoves are packed in moisture proof cartons and shipped direct to you from Chicago factory.

S-6038—New Process Oil Stove, complete **$6.70**
S-6039—New Process Oil Stove, complete **7.70**

S-6039—Oil Stove
Height 31½ inches.
Width 14½ inches.
Depth 14½ inches.
Capacity of Fount, 1 gallon.
Shipping weight, 19½ lbs.

DIRECT FROM FACTORY TO YOU AT FACTORY PRICES

DIRECT FROM FACTORY TO YOU AT FACTORY PRICES

This stove is well made throughout of the best of materials. Has a black japanned steel cylinder, perforated top and bottom, oval mica window, 4 qt. leaded steel fount, 8 in. circular wick, riveted feet. Drum 8 inches in diameter. Shipping weight 17 lbs. Packed in moisture proof carton and shipped direct to you from Chicago factory.

S-6040—Oil Stove **$6.15**

Made of the best of materials and workmanship throughout. Is 25 inches high (bail down). Drum is 8 inches diameter, made of black japanned steel, perforated top and bottom, oval mica window, 4 qt. steel fount, nickel plated ventilator top, base and feet, 8 in. circular wick, automatic register. Shipping weight 19 lbs. Packed in moisture proof carton and shipped direct to you from Chicago factory.

S-6041—Oil Stove **$7.25**

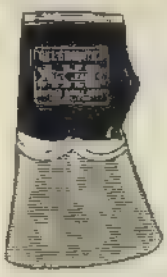
Made of heavy blue enamel steel with beautiful nickel trimmings and brass fount. Height 25 inches (bail down). Drum is 8 inches in diameter, made of blue enamel steel, perforated top and bottom, oval mica window, full nickel plated trimmings and feet, 1 gallon brass fount, 8 in. circular wick, patent spreader, reservoir and indicator. Shipping weight 20 lbs. Packed in moisture proof package and shipped direct to you from Chicago factory.

S-6042—Oil Stove **$9.95**

UNHANDLED SINGLE BIT AXES

BLUE JEANS

The Famous "Blue Jeans" Manufactured from High Carbon Axe Steel Guaranteed Against Flaws Accurately Punched Eye Beautiful Light Blue Painted Body—Polished Bit and Poll Each Axe Bears an Attractive Blue Jeans"" White and Black Label



SOUTHERN KENTUCKY PATTERN

Weights, Assorted Lbs	4 to 5	4½ to 6
Weight Per Doz About Lbs	62	70
Per Dozen	$30.00	$0.50

BALTIMORE JERSEY PATTERN

Weights Assorted, Lbs	3½ to 4½	4 to 5	4½ to 5½
Weight, Per Doz. About Lbs.	55	60	65
Per Dozen	$29.50	30.00	30.50

One dozen in a wooden case. Each wrapped in heavy paper.

WM. PENN

NEW GUN METAL FINISH

In the Manufacture of These Axes, the Very Finest Quality of High Carbon, Crucible Axe Bit Steel is Used Guaranteed Against Flaws in the Steel or Softness Accurately and Uniformly Punched Eyes. Each Axe Attractively Etched in Deep White Letters Wrapped in Strong, Waterproof Paper Bearing Label and Giving Weight

Philadelphia Jersey

PHILADELPHIA JERSEY PATTERN

Wts. As Lbs.	2 to 2½	2½ to 3	to 3½	3½ to 4½	4 to 5
Wt Ab. Lbs.	33	40	44	55	60
Per Dozen	$30.00	30.00	30.00	31.50	31.00

ROCKAWAY PATTERN

Weights, Assorted Lbs	3½ to 4
Weight, Per Dozen, About Lbs	52
Per Dozen	$31.50

Rockaway

One Dozen in a Wooden Case, Each Wrapped in Heavy Paper

CRESCENT

RED PAINTED BODY. POLISHED BIT AND POLL

Steel of Crucible Forged Steel, Carefully Tempered Each Axe Bears an Attractive "Crescent" Black and Gold Label

Philadelphia Jersey

Baltimore Jersey

Rockaway

PHILADELPHIA JERSEY PATTERN

Weights Assorted, Lbs	2 to 2½	2½ to 3	3 to 3½
Weight, Per Dozen, About Lbs	33	40	44
Per Dozen	$28.00	28.00	28.00

BALTIMORE JERSEY PATTERN

Weights, Assorted, Lbs	3½ to 4½	4 to 5
Weight, Per Dozen About Lbs	55	60
Per Dozen	$28.50	29.00

ROCKAWAY PATTERN

Weights Assorted, Lbs	3½ to 4
Weight Per Dozen About Lbs	52
Per Dozen	$28.50

One dozen in a wooden case, each wrapped in heavy paper

UNHANDLED SINGLE BIT AXES

KELLY PERFECT

BLUE PAINTED PHANTOM BEVELS. POLISHED BIT AND HEAD

Solid Steel Poll Crucible Forged Steel Bit. Tempered with Natural Gas Sharpened Ready for Use The Patented Bevels Prevent the Axe from Binding in the Wood, and Make it Easier to Sharpen Each Axe Bears an Attractive White and Black Embossed Label.

DAYTON PATTERN

Weights, Assorted, Lbs ..	3 to 4	3½ to 4½	4½ to 6
Weight, Per Dozen About Lbs	48	55	70
Per Dozen	[illegible]	30.50	31.50

SOUTHERN KENTUCKY PATTERN

Weights, Assorted, Lbs	3½ to 4½	4 to 5	4½ to 5½
Weight, Per Dozen About Lbs	55	60	70
Per Dozen	$30.50	31.00	31.50

Baltimore Kentucky Pattern

BALTIMORE KENTUCKY PATTERN

Weights, Assorted, Lbs.....	3, to 4½	4 to 5	4½ to 5½
Weight, Per Dozen About Lbs	55	60	65
Per Dozen	$30.50	31.00	31.50

Philadelphia Jersey

Baltimore Jersey

PHILADELPHIA JERSEY PATTERN

Weights, Assorted, Lbs.....	2 to 2½	2½ to 3	3 to 3½
Weight, Per Dozen About Lbs...	33	40	44
Per Dozen.....	$30.00	30.00	30.00

BALTIMORE JERSEY PATTERN

Weights, Assorted, Lbs	3½ to 4½	4 to 5	4½ to 5½
Weight, Per Dozen About Lbs.....	55	60	65
Per Dozen.	$30.50	31.00	31.50

One dozen in a wooden case, each wrapped in heavy paper.

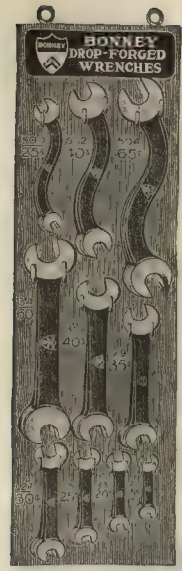
WRENCHES

BONNEY'S WRENCH ASSORTMENTS

Drop Forged, with Ends Hardened, Ground and Polished; Bodies are Finished in Dead-Black Enamel. All Wrenches are Double-Head.

The Display Board is Designed to Hold Three Wrenches of Each Size, a total of Thirty Wrenches. The Number as well as the Suggested Resale Price is found at side of the hooks provided for each size.

Bonney No. 60 Drop Forged Wrench Assortment Contains the following Wrenches, which have been found to be the Sizes and Designs for which there is the Greatest Demand.

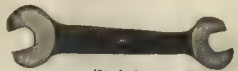


GENERAL PURPOSE WRENCHES

22½° Angle

Quantity	No.	Openings Finished, In.	Extreme Length, In.	Each, Special Semi-finished	Total
3	500	⅜ & ½	6¾	$0.27	$0 81
3	502	½ & ¾	8½	.43	1 29
3	504	⅞ & 1	10⅝	.70	2 10
					$4 [illegible]

ENGINEERS' WRENCHES



15° Angle

Quantity	No.	For U. S. Standard Nuts, Size Bolts	Opening Milled	Extreme Length, In.	Each, Special Semi-finished	Total
3	21	⅛ & ¼	¼ & ⅜	3¼	$0.17	$0 51
3	23	¼ & ⅜	⅜ & ½	4	.22	.66
3	25	⅜ & ½	½ & ⅝	5⅛	.26	.78
3	27	½ & ⅝	⅝ & ¾	6⅜	.31	.93
3	29	⅝ & ¾	¾ & ⅞	6⅞	.37	1.11
3	31	¾ & ⅞	⅞ & 1	7⅝	.45	1 35
3	34	⅞ & 1	1 & 1⅛	9⅛	.68	2 04
30						$8 [illegible]

Per Assortment

$12 [illegible]

No. 60 Display Board and 30 Wrenches as Listed above

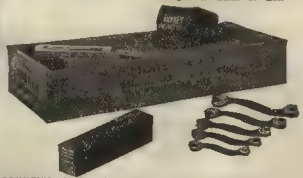
Weight per Assortment 20 Lbs.

Each Assortment of Thirty Wrenches and Display Board in a Separate Box

Refills for the above Display Board may be Purchased Separately

No. 30—Refill of 30 Wrenches, without Board

Weight of Refill 15 Lbs. 11 [illegible]



BONNEY'S GENERAL PURPOSE WRENCH SETS

Highest Grade Malleable Iron, Polished Heads with 10 Openings ⅜ to 1⅛ In.

Per Set

No 24B—Set Contains 5 Malleable, General Purpose Wrenches as described below; Weight per Set about 2½ Lbs..... .....$0.70

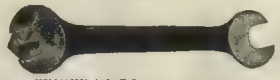
Contents of No. 24B Set				
Opening, In.	⅜ and ½	½ and ⅝	⅝ and ¾	¾ and 1⅛
Length, In.	6⅛	7⅞	8⅝	9¾

One Set in a Carton

With Each Case of 24 Sets is Enclosed a Shop Cap and a Sample of "Bonney Box Tool" which is Strong Enough to Open the heaviest case, but so small that it can be conveniently carried in the pocket

24 Sets in a Case; Weight per Case About 60 Lbs.

WRENCHES



WILLIAMS' LIGHT CAP SCREW WRENCHES
15° Angle, Double Head; Semi-Finished for Hexagon Head Cap Screws

Number	For Hexagon Head Cap Screws Diameter Screws, Inches	Openings Milled, Inches	Extreme Length, Inches	Thickness, Head Inches	Weight, Doz. Lbs.	Each
721	1/4 and 5/16	5/16 and 3/8	3 1/8	3/16	1 1/4	$0 17
723	5/16 and 3/8	3/8 and 7/16	4	1/4	1 3/4	.21
725	3/8 and 7/16	7/16 and 1/2	4 7/8	9/32	2 3/4	.25
725B	7/16 and 1/2	1/2 and 9/16	4 7/8	5/16	2 3/4	.25
727	1/2 and 9/16	9/16 and 5/8	5 3/8	5/16	3 3/4	.31
729	9/16 and 5/8	5/8 and 3/4	6 3/8	11/32	4 3/4	.37
731	5/8 and 3/4	3/4 and 7/8	7 1/8	13/32	7 1/4	.45
731B	3/4 and 7/8	7/8 and 1	7 7/8	13/32	7 3/4	.45
733	7/8 and 1	1 and 1 1/8	8 5/8	1/2	11 1/2	.55
735	1 and 1 1/8	1 and 1 1/4	9 1/2	1/2	14 1/2	.68
737	1 1/8 and 1	1 1/4 and 1 1/8	11 5/8	5/8	22 5/8	.96

WILLIAMS' "THIN FIVE" WRENCH SET
Openings Milled for A. L. A. M. Standard Nuts and Cap Screws

Made of Best Quality Drop Forged Steel. Set Consists of Five Wrenches; One Each Nos. 623E, 626X 629E, 632X and 635G.

These Sets are especially made up to meet the demand for a Reliable Set of Wrenches for use in the Tool Equipment of Automobiles, Gas Engines, Motor Boats, Motorcycles, and all Machines requiring a High Grade Wrench.

Wrench Numbers	A. L. A. M. Nut and Cap Screws, Openings, Milled Inches	Extreme Lengths Inches	Thickness Heads Inches	LIST Semi-Finished
623E	1/4 and 5/16	3/8 and 1/2	4 3/4	5/16 and 3/8	$0 25
626X	3/4 and 7/8	5/16 and 3/8	5 1/4	1/2 and 9/16	32
629E	1/2 and 9/16	3/4 and 7/8	6 1/4	7/16 and 1/2	40
632X	5/8 and 3/4	15/16 and 1	8 1/4	3/4 and 5/8	56
635G	7/8 and 1	1 1/4 and 1 1/2	10 1/2	1 1/16 and 1 1/8	84

Per Set

No. 35S—Semi-Finished. Five Wrenches as listed above, in Canvas Roll.....$5.00
Weight per Set, about 33 Oz.

BONNEY'S "FORD CAR" WRENCH SET
In Canvas Rolls

Drop Forged, with Ends Hardened, Ground and Polished. Bodies are Finished in Dead-Black Enamel.

No.	Openings	For Nuts and Cap Screws	Length, Inches
23F	3/8 and 7/16	1/4 A. L. A. M. Nut, 1/4 S. A. E. Cap Screw	4 1/4
25F	1/2 and 9/16	5/16 A. L. A. M. Nut, 5/16 S. A. E. Cap Screw, 1/4 U. S. S.	5
27F	5/8 and 3/4	3/8 S. A. E. Nut, 1/16 Cap Screw	6
29F	7/8 and 15/16	5/16 A. L. A. M.	6 3/4
33F	3/4 and 7/8	7/16 A. L. A. M. Nut, 7/16 S. A. E. Cap Screw, 1/2 U. S. S.	9
Reverse Gear 100F	5/8 and 3/4	1/2 S. A. E. Nut, 1/2 Cap Screw	8 3/4

Per Set

Set No. 9—Consists of Six Wrenches which contain openings especially milled to fit Every Nut on a Ford Car. There are Five Straight-bar, 15° Angle Wrenches of a new and strong design; also One Thin Wrench, with Offset Bar, for the reverse gear and brake adjustments.....$2.76
Packed One Set in Canvas Roll; Weight per Set About 8 1/2 Lbs.

Williams No. 2-S.

SEATTLE HARDWARE COMPANY

BONNEY DROP FO... RTMENT

This Assortment contains six each of thirty different Bonney Spe... ished Drop Forged Wrenches.

The purpose of this assortment is to furnish the dealer with a complete range of sizes of Drop Forged Wrenches for use on U. S. Standard and S. A. E. nuts and cap screws. It includes a complete range of openings in the 15 degree angle straight bar wrench from ½ in. to 1 in., also six different sizes of 22½ degree angle straight bar wrenches which have openings to cover the most generally used nuts and cap screws in the various standards from ½ in. to ⅞ in., inclusive. The openings running from ⅝ in. to 1¼ in.

In addition, three different size thin wrenches are included for S. A. E. valve tappets.

One other wrench is included which is of a special design for use on the brake and reverse gear on the Ford car. This wrench has a peculiar application and there is a steady and large demand for this special type.

All of the wrenches contained in this assortment are Drop Forged, special finish, hardened and heads polished. Each wrench is thoroughly warranted

The Display Board is made of soft wood, covered with heavy gauge metal, highly lithographed in colors. The metal covering is securely held by a moulding 1½ in high, and the lithographing is permanent and will not crack or peel. It may easily be cleaned with a damp cloth.

The size of the Board is 45 in. high, 16 in. wide and 1½ in. thick. Hooks are inserted at an angle of 75 degrees from the face of the board so that the weight of the wrenches at all times forces them against the board and holds them firmly. Springs of special design are also furnished which may be attached between the hooks, further eliminating the possibility of falling off and pilfering.

Each Board is packed in an INDIVIDUAL SHIPPING CONTAINER. The wrenches are packed in cardboard cartons, and each assortment in an individual container. A complete unit of one board and one wrench assortment weighs approximately 100 pounds. The wrench assortments may be ordered separately as refills, or individual sizes of wrenches may be purchased in any quantity.

	Open... Milled, In	U. S. S. Nuts.	U. S. S. Hex. Cap Screws.	S. A. E. Nuts and Cap Screws.	Square Head Set Screws.	
No. 21	⅜ x ⅜	⅜ x ⅜	⅜ x ⅜	.....	⅜ x ⅜	Each, $0.17
No. 23	⅛ x ⅛	⅞ x ⅛	.....	⅞ x ⅛	⅞ x ⅛	.21
No. 25	½ x ½	½ x ½	½ x ½	½ x ½	½ x ...	.25
No. 27	⅛ x ⅛	⅛ x ⅝	.....	.....	.....	.31
No. 27C	⅛ x ⅛	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅛ x ...	.31
No. 28S	⅝ x ⅛	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.37
No. 29	⅛ x ⅛	⅝ x ⅝	.....	.....	.....	.37
No. 31	⅛ x ⅝	⅛ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.45
No. 33	⅝ x ⅛	⅛ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.56
No. 33C	⅛ x ⅛	.....	⅝ x ⅝	⅝ x ⅛	x 1	.55
No. 100F	⅝ x ⅛	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.53
No. 550AS	⅝ x ⅝	.....	⅝ x ¼	⅝ x ¼	⅝ x ⅝	.25
No. 551AS	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.31
No. 552AS	⅝ x ⅛	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.40
No. 553AS	⅝ x ⅛	.....	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.52
No. 554AS	⅝ x 1	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x 1	.72
No. 555AS	1 ⅛ x 1 ⅛	⅝ x ⅝	x 1	⅝ x ⅝	x 1 ⅛	.96
No. 721	⅝ x ⅝	⅛ x	⅛ x ⅝	.....	⅝ x ⅝	.17
No. 723	⅝ x ⅝	.....	⅝ x ⅝	.....	⅝ x ⅝	.21
No. 723A	⅝ x ⅛	⅝ x ⅛	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.21
No. 725	⅝ x ⅛	⅝ x ⅛	⅛ x ⅝	⅛ x ⅝	⅝ x ⅝	.26
No. 725B	⅝ x ⅝	⅛ x	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.26
No. 727	⅝ x ⅝	.....	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.31
No. 729	⅝ x ⅝	.....	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.37
No. 731	⅝ x ⅝	.....	⅝ x ⅝	⅝ x ⅝	⅝ x ...	.45
No. 731A	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.45
No. 732	⅝ x 1	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	⅝ x 1	.52
No. 821A	⅝ x ⅝	⅛ x	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.25
No. 823A	⅝ x ⅝	⅛ x	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.32
No. 825A	⅝ x ⅝	⅝ x	⅝ x ⅝	⅝ x ⅝	⅝ x ⅝	.40

No. 65—Assortment, with Display Board..... Each, $71.08

MOSSBERG THIN STEEL ASSORTMENT. FULL POLISHED

Assortment contains twelve each of the following Wrenches:

Style of Wrench	No	Opening.	Fits U. S. Std. Nuts.	Fits U. S. Std. Cap Screws.	Fits S. A. E. Nuts and Cap Screws.	Fits A. L. A. M. Nuts and Cap Screws.	Length	Thickness.	Each	No
General	210	¼ x ⅜	x ⅜	x ¼	.....	.....	3 ⅜	1/16	$0.24	210
Service	224	⅜ x ⅜	.....	⅜ x ⅜	x ⅜	⅜ x	4	1/16	.32	224
Set	256	⅜ x ⅜	⅜ x	⅜ x ⅜	⅜ x ⅜	⅜ x ⅜	4 ⅜	1/16	.36	256
15° Double	258	⅜ x ⅜	.....	⅜ x ⅜	⅜ x ⅜	x ⅜	6 ⅜	¼	.58	258
End	275	⅜ x 1	⅛ x	⅜ x ⅜	⅜ x ⅜	⅜ x ⅜	8 ⅜	1/16	.96	275
	232	⅛ x ⅛	x ⅜	⅛ x ⅜	⅛ x ⅜	x ⅜	4 ⅜	1/16	.36	232
S. A. E.	243	⅛ x ⅜	.....	⅜ x ⅜	⅜ x ⅜	⅜ x	5 ⅜	1/16	.46	243
15° Double	267	⅜ x ⅜	x ⅜	⅜ x ⅜	⅜ x ⅜	⅜ x ⅜	8	¼	.76	267
End	277	⅛ x 1	.....	⅜ x 1	⅜ x ⅛	⅜ x ⅛	8 ⅜	1/16	.96	277
	293	1 ⅛ x 1 ⅛	⅜ x ⅜	x 1	⅜ x ⅜	x ⅜	11	1/16	1 40	293
General	1210	¼ x ⅜	x ⅜	x ⅛	.....	.....	3 ⅛	1/16	.26	1210
Service	1224	⅜ x ⅜	.....	⅜ x ⅛	x ⅛	⅛ x	4	1/16	38	1224
22½°	1235	⅛ x ⅜	⅛ x	⅛ x ⅜	⅛ x ⅜	⅛ x ⅜	4 ⅜	1/16	.44	1235
Double	1253	⅜ x ⅜	.....	⅛ x ⅜	⅛ x ⅜	⅛ x	6 ⅜	¼	.66	1253
End	1275	⅜ x 1	⅛ x	⅜ x ⅜	⅜ x ⅛	⅜ x ⅛	8 ⅛	1/16	1.08	1275

We carry all the above numbers in open stock.

Mossberg "Y"—Containing 180 Full Finished Thin Steel Double End Wrenches. Weight complete, 102 lbs. Assortment, $112 00

CATTLE STANCHIONS

STAR ADJUSTABLE STEEL

No. 434W—Special High Carbon U-Bar Steel with malleable fittings throughout, with wood linings. The lock is so protected that it cannot be opened by animals, but can be released by the operator with one hand. Stanchions can be closed by simply shoving them shut. By loosening two set screws, one holding the lower cross-bar, this stanchion can be instantly adjusted in neck width from 5 to 9¼ inches. Weight each, 23½ lbs. Furnished either swivel or chain-hung ..... Each, $4.25

No. 434—Without wood lining, otherwise same as No. 434W. Weight each, 21 lbs. Furnished either swivel or chain-hung ..... Each, 4.00

SURVEYING INSTRUMENTS

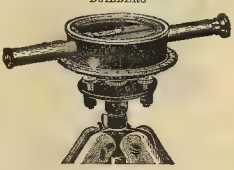
LEVELS

BOSTROM'S FARM

No. 2—Iron case, brass telescope, regular graduations; complete with tripod, target and plumb bob, with box for level. Weight, 15 lbs. ..... Each, $22.50

With magnifying glasses in the telescope, enables you to read the cross on the target at a distance of over 400 yards. For draining, irrigating, terracing, grading road building, leveling foundations, etc.

BUILDERS'



No. 3—Bronze case, brass telescope, fine graduations; complete with tripod, graduated rod, target and plumb bob, with full instructions for adjusting; with oak box for level. Weight, 15 lbs. ..... Each, $30.00

Achromatic telescope, magnifying 10 to 12 diameters, doing accurate work at long range. Graduated circle divided into 360 degrees, numbered from zero to 90 degrees in both directions. The cross-hairs are set in the eye-piece.

WINDSHIELD CLEANERS

CLEAR VIEW

Instantly cleans both sides of windshield of fog, rain, snow or dust. Easily operated with one hand while driving. An absolute necessity the year around. Japanned steel frame. The only cleaner made with replaceable rubber cleaner bars. Packed in a carton with directions for installing. Weight, 6 ozs.

Clear View .....Each $1.75
Extra cleaner bars.....Pair .60

WINDSHIELD WEATHER STRIPS

No. 97

Fits on the lower section of the wind shield and prevents the rain from driving between the glasses during a storm. Cut in strips suitable for one windshield.

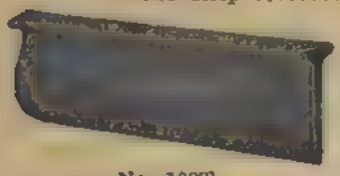
For Regular Windshields

No. 97
Length, inch 42
Per strip $0.60

For Offset Windshields

No. 109
Length, inch 37
Per strip $0 60

No. 109



No. 108T

T-Shaped Rubber

No. .....108 T
Length, inch 42
Per strip $0.40

FIRE EXTINGUISHERS

BOYCE

A combined sprinkler system and hand operated fire extinguisher made in the unique form of a graceful crystal container, filled with the most effective fire extinguishing fluid known to chemistry.

Installed under the hood (where 90% of auto fires start) the extinguisher automatically gets into operation the moment the fire breaks out. An overheated motor will not start it, but the natural heat of the engine combined with the heat of the fire melts the seal and converts the liquid contents into a quenching gas that quickly and completely smothers the blaze. If fire should break out in any other part of the car, the extinguisher can quickly be released and operated by hand by simply removing the top.

No pumping is ever necessary. The container is heavy glass with nickel plated trimmings, and hangs on a handsome metal bracket. The seal on the nozzle melts at 180°. Contents always visible and will not leak, evaporate, deteriorate or freeze. It is a non-conductor of electricity and harmless both to operator and material on which it is sprayed. When used the container can be returned to filling station in San Francisco, and recharged for a nominal sum. Cost of transportation both ways to be borne by customer.

Model 1, pint size with bracket.....Each $6 50
Model 2, quart size..... " 8 50
Model 1, without bracket..... " 6 00
Model 2, without bracket..... " 7 50
Bracket only for No. 1..... " 1 10
Bracket only for No. 2..... " 1.60

Refills

Model 1 .....Each $1 50
Model 2 ..... " 3.00

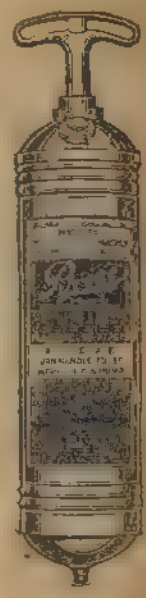
FIRE EXTINGUISHERS

GUARDENE

Guardene Fire Extinguishers embody all the latest improvements in soda and acid machine. It is made of cold-rolled copper, burnished outside and heavily plated inside with tin to prevent corrosion. They are tested to 350 lbs pressure, but the working pressure is only about 100 lbs. It will throw a stream 40 feet, which can be shut off by turning the extinguisher right side up again.

Capacity, gallons 2½
Guardene, weight filled, lbs..... 40
Each $20.00
Recharges ....Per dozen 9.00

PYRENE



Especially constructed for automobiles but can be used in garages, hotels, factories and homes. Safe and certain on electrical fires without injury to the operator. The liquid is a chemical preparation of purely organic materials and having an aromatic odor and a high specific gravity. As it touches the fire a dense white gas is formed, which surrounds the fire and smothers it. Very effective on highly inflammable material such as oils, grease, gasoline, etc. Operated by turning handle and pumping which forces the fluid out of the cylinder. Made of brass and white metal, capacity one quart. Complete with black finish brackets.

Pyrene, Brass—Weight, 6½ lbs.....Each $10 00
Pyrene, Nickel Plated—Wght, 6½ lbs " 11.00

Each extinguisher in cardboard tube ready for use and with complete instructions.

PYRENE LIQUID

For refilling Pyrene Extinguishers.

Pyrene Liquid—Qt can. Wgt, 4 lbs..Per can $1.75

Packed in quart cans, 20 quarts to the case. Gallon cans, 6 cans to the case.

BRACKETS

Black enamel brackets for extinguishers..... Each $1 00

FIREKLOK

AUTOMATIC FIRE ALARM SIGNAL

Should be installed in all buildings where there is danger of fire, close to the fire risks or hazards, by suspending them about a foot from the ceiling and about every 40 or 50 square feet. The Fireklok is guaranteed for 5 years and is rust proof. Operates similar to the automatic sprinkler system, but fuses at 140° instead of the minimum of 155° required heat in the automatic sprinkler head. When the fire starts the head fuses and releases the gong, which rings continuously for four minutes and can be heard a long distance.

Fireklok .....Each $7.50
Extra Fuse Heads..... " .50

SPEEDOMETERS
STEWART-WARNER
FOR FORD CARS

All speedometers complete with fittings and driving equipment.

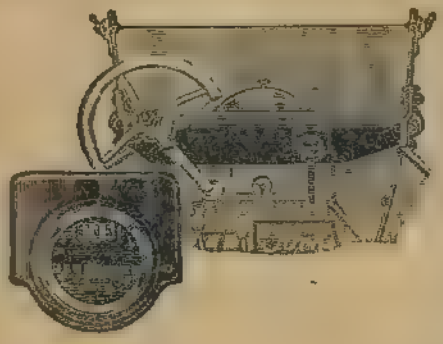
Built on the magnetic principle, the only one on which an absolutely accurate speedometer can be built. Has rotating speed dial 60 miles capacity. Odometer has 10,000-mile season register and 100-mile trip register. Trip register can be rapidly reset to any tenth of a mile. Jeweled bearings, polished steel magnets, 3-inch jet dial face. Finished in jet black with brass trimmings. Weight, 11 lbs.

1921 MODEL

For Ford cars in which instrument board has already been installed.

No. .....160 A
Each $16.50

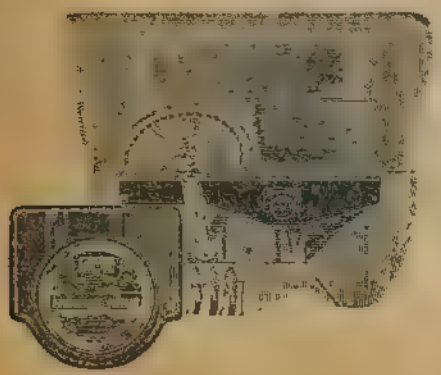
1921 MODEL



Special instrument board for Ford touring cars and roadsters, with No. 160A speedometer attached.

No. .....160 B
Each $17.25

1921 MODEL



Special instrument board for Ford coupes and sedans, with No. 160A speedometer attached.

No. .....160 C
Each $17.25

SPEEDOMETER PARTS
F. W. S.
SWIVEL JOINTS

All wearing parts steel. Steel bushings where moving parts come into contact with the soft metal case.

The most efficient, most durable and in every way the best swivel joint ever made. Weight, 1½ lbs.

No. A209R—2½ to 1—1911 to 1918, right hand.
Each $3.75

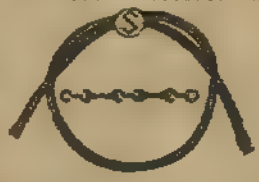
No. A209L—2½ to 1—1911 to 1918, left hand.
Each $3.75

SPEEDOMETER SHAFTS

These shafts are furnished complete with end fittings to fit Stewart, Standard and Sears Cross speedometers and are interchangeable in every respect.

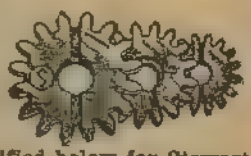
The flexible tube or housing is made of the best rolled steel with positively locked joints, making the strongest and at the same time the most flexible shaft on the market.

No. B210—Complete shafts, 50, 54, 60, 66, 72, 78 and 84-inch. Specify length desired.
Each $4.50



No. B211—Outside housings, both end ferrules, 50, 54, 60, 66, 72, 78 and 84-inch. Specify lengths.
.....$2.50

FIBRE GEARS



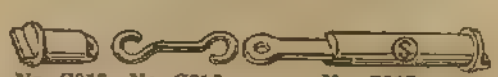
These gears are made of the best quality sheet fibre, cut out of complete sheets and turned to size before the teeth are formed.

We use absolutely no scrap or waste fibre, all gears being cut from fresh, perfect stock.

Made in cotter pin and nut type as specified below for Stewart speedometers.

Nos.		
D249	No. 1 Cotter pin fibre gears	Each $0.35
D250	No. 2 Cotter pin fibre gears	" .35
D251	No. 3 Cotter pin fibre gears	" .35
D252	No. 1 Cotter pin and nut type fibre gears	" .35
D253	No. 2 Cotter pin and nut type fibre gears	" .35
D254	No. 3 Cotter pin and nut type fibre gears	" .35

CLUTCH AND SHAFT FITTINGS



No. C215 No. C216 No. C217

These parts are made of the best steel, finished with absolute accuracy, end fittings heat treated to insure great wearing qualities. They are absolutely interchangeable with all other parts.

Nos.		
C215	Upper clutches	Each $0.25
C217	Lower sliding bar clutch	" .35
C216	Links. 11 links to the foot	Per foot .50

FIRE EXTINGUISHERS

PYRENE

Regular Bracket.

Glass Front Bracket. Metal Frame.

Pyrene is the enemy of fire of every kind. Blazing gasoline is as easily extinguished with Pyrene as burning shavings. If carried on your automobile it means 15 per cent reduction in the insurance premium.

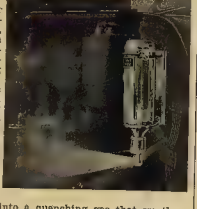
Pyrene will not freeze at 50 below zero. Hence it is particularly adapted to use in cold climates, or in buildings exposed to extremes of temperature.

Pyrene never deteriorates with age. Hence there is no expense for up-keep. It is a non-conductor, hence it can be used with absolute safety on electrical fires.

Pyrene contains no water. It will not injure the purest fabric or stain the most delicate colors. Inspected, approved and labeled by the Underwriters Laboratories Inc. Passed by the U. S. Steamboat Inspection Service. It is a clear fluid of aromatic odor. When exposed to 200 degrees of heat it turns into a heavy gas that settles on the flames and extinguishes them by shutting off the air.

Extinguishers—Brass, with Regular Bracket	Each,	$10.00
Extinguishers—Brass, with Glass Front Bracket	"	13.00
Pyrene Liquid—Quart cans	"	1.75
Pyrene Liquid—1 gallon cans	"	7.00
Watchman's Holster—For Pyrene Extinguishers	"	1.50
Glass Front Bracket Box	"	3.00

BOYCE



A combined sprinkler system and hand-operating fire extinguisher, made in the unique form of a graceful crystal container filled with an effective fire extinguishing fluid.

The Boyce Automatic works automatically, and may also be operated by hand. No pumping is ever necessary.

Installed under the hood of an automobile, the Boyce Automatic gets into operation the instant a fire breaks out. The heat of the fire combined with the heat of the engine converts the liquid into a quenching gas that smothers the blaze completely.

An overheated motor cannot affect it. Only the increase in temperature caused by an actual blaze can put it into operation. If fire should break out in any other part of the car, the Boyce Automatic can be quickly released from its bracket and operated by hand. The Boyce Automatic is equally effective in home, garage or general use. Refilled for a very nominal charge.

No. 1—Pint size	Each,	$6.50
No. 2—Quart size	"	8.50

GUARDENE

Approved and labeled by the Underwriters' Laboratories, Inc.

Guardene Fire Extinguishers embody all the latest improvements in soda and acid machines. They are powerful enough to handle a free burning fire in its early stages, yet light and compact enough to permit extremely quick action. All fires are small fires first and there are few fires that a Guardene won't handle if it is used during the first few minutes.

Guardene Extinguishers are well designed and do not look out of place in any office, school or theater. Besides bearing the Underwriters' label, Guardene Extinguishers are approved by the U. S. Steamboat Inspection Service and by the factory mutual insurance companies.

It is made of cold-rolled copper, burnished outside and heavily plated inside with non-corrosive metal. In the head is a "cage" which holds a bottle half filled with sulphuric acid. The tank is filled with a solution of bicarbonate of soda.

To use the extinguisher it is simply turned upside down, the stopper falls out and the mixing of the acid with the soda solution generates a gas pressure that will throw a stream 40 feet. The stream can be shut off by turning the extinguisher right side up again.

Guardene Fire Extinguishers are tested to 350 pounds pressure, but the working pressure is only about 100 pounds.

As the cost of recharging these extinguishers is slight, the upkeep expense is low. Guardene soda and acid recharges are scientifically compounded and absolutely accurate. They are standard recharges for Guardene Extinguishers or any standard soda and acid extinguisher.

*Guardene—Complete	Each,	$18.00
Extra Glass Bottles and Stoppers	Per dozen,	$2.25
Extra Cages for Bottles	" "	7.50
Extra Hose, complete with Couplings and Nozzle. Per dozen		10.75
Extra Charges	Per dozen,	6.00
Extra Lead Stoppers	Each,	.20

*Formerly known as "Cascade."

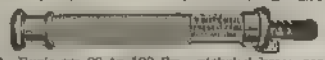
PUMP TANK

GUARDENE

Guardene—Capacity, 5 gals. A heavy, japanned, portable Tank, with pump and hose for using water. Weight each, 15 lbs. Each, $12.00

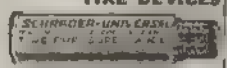
AUTO SUPPLIES

"TWITCHELL" TIRE PRESSURE GAUGE

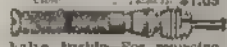


4K4251 Registers 20 to 100 lbs. nickeled brass case locks automatically at pressure registered. 4 in box. Each, $1.02

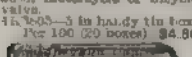
SCHRADER'S PATENT TIRE DEVICES



Tire Pressure Gauge. Registers 1 to 120 lbs. Brass case, nickeled. 4x3810—Each in leather case. Each, $1.05



Valve Inside—For repairing valve insides that are worn or broken, fits any Schrader auto, motorcycle or bicycle valve. 4K3603—3 in handy tin box. Per 100 (20 boxes) $4.80



"Key-to-Start" Dust Caps. All that the name implies. Eliminates necessity of screwing cap down full length of valve stem to fasten, slip on valve—screwing it up to right to remove reverse operation. Set of 4 in box. 25 sets in carton. 4K7936—3 in long. Carton, $8.00

4K7937—2¼ in long for longer valve stems. Carton $8.20

"WHISTLER" AUTOMATIC SAFETY PRESSURE REGULATOR SET

4K1831 Adjustable spring operated valve screws in tire valve without change. When air pressure in tire reaches predetermined point collar regulator gives warning sound and surplus air is let out through hole in side. Are accurately guaranteed. Set of 4 in box..... Set, $2.96

GOODRICH MOTOR TESTING VALVES

Reproduces every pulsation of engine instantly reveals any irregularity, full mouth opening greatly intensifies sound of [illegible] sure, simple, strong, easily installed, guaranteed to last life of car. Sizes listed cover 95% of the most popular automobiles, excluding the Ford [illegible]

4K372 1½ in. Each $2.95
4K [illegible] 2 " " 3.25
4K [illegible] 2½ " " 3.25

SIMPLEX STEERING WHEEL LOCKS

With nickel again[illegible] theft [illegible] is [illegible] by anyone in ten minutes and cannot be repaired without proper key. Fully guaranteed.

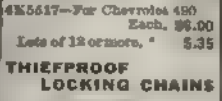
4K3514—For Dodge. Each, $6.00
Lots of 12 or more " 5.35

4K3516—For Overland 4. Each, $6.00
Lots of 12 or more, " 5.35

4K3518—For Maxwell. Each, $6.00
Lots of 12 or more " 5.35

4K5617—For Chevrolet 490. Each, $6.00
Lots of 12 or more, " 5.35

THIEFPROOF LOCKING CHAINS



For securing spare tires, tough steel, heavy knit leather covered. Corbin lock, 2 keys. 1 in pkg.

4K4991 36 in.. Each, $0.75
4K4992 40 " " .85

"UNIVERSAL"

4K3625—Finish type, black finish dull polished can be used on any car, any type of system or any voltage system. An instrument of quality. Each in box with bolts and nuts to attach. Each, $2.45

"SURETY" AUTO THEFT LOCK

4K5055—No. 3440. For artillery or wood wheels that have 3 in or 3½ in. Standard Britcox Quad, 3 in or 3½ in. tires. Made of special heat treated [illegible] steel, [illegible] rim and tire of right front wheel. Cannot be [illegible] when signal attached [illegible] No. [illegible] $1.50 in reward [illegible] thief [illegible] victim for grand larceny of any one operating an auto guarded by this signal

1 in box Each, $6.15
Lots of 6 or more " 5.75

INLAND 1 PIECE CUSTON RIMS

Compressor tight rings 1 pc recommended by the mechanics. [illegible] more power on less fuel and oil

4K5007 [illegible]
4K5008 [illegible]
4K5010—22½x3½
4K5011 [illegible]
4K5012 [illegible] Each 87 cts
4K5013 [illegible]
4K5014—3½x3½
4K5016 [illegible]
4K5017 [illegible]
4K5018—4x3½
4K5019 [illegible] Each Out
4K5002 [illegible]
4K5003—4½x3½ Each, $1.05
4K5004 [illegible]

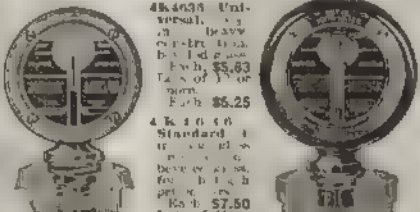
BOYCE MOTOMETERS

Extensively advertised and well known, adopted for motor [illegible] Boyce Motometer [illegible] cooling system [illegible] thermometer [illegible] prevents overheating [illegible] Made in three sizes [illegible] systems [illegible] water, oil, etc

4K4832 Midget, 4 in. for Maxwell [illegible] Each, $1.68
Lots of 6 or more, " 1.15

4K4833 Special Ford model, 4½ in [illegible] Each $2.62
Lots of 10 or more, " 2.45

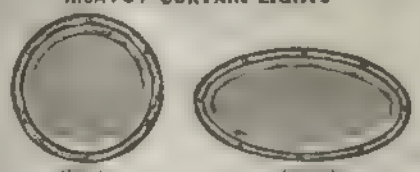
4K4834—Junior, 5½ in. for medium size cars. Each, $3.75
Lots of 10 or more " 3.50



4K4836 Universal, [illegible] heavy [illegible] brass [illegible] Each, $5.63
Lots of 10 or more, Each $5.25

4K4840 Standard [illegible] Each $7.50
Lots of 10 or more, Each $7.00

McAVOY CURTAIN LIGHTS



Beveled glass, double strength, in nickeled frame. New method of attaching to curtain preventing tears and window light working loose. Each in carton.

4K5714—Size 6 in. oval Each $2.25
4K5715—Size 5x10 in. oval Each $3.15
4K5716—Size 6x12 in. oval Each $3.75
4K5717—Size 6x16 in. oval Each $4.50

4K5718—Size 8x20 in. [illegible] Each $7.50

AXLE SHAFTS

Heat treated, hot rolled steel accurately ground. 1 in pkg.

Maxwell—Models 1914 to 1919.
4K5582 Right hand. Each, $1.65
4K5783 Left " Each, $1.65

Dodge—Models 1916 to 1919. 4K6780— Each $2.15

Dort—Models 9-11, 4K5781 Each, $2.95

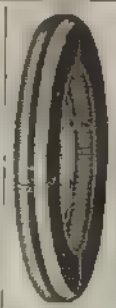
Overland—Models 79T 79R 80R 80C
4K [illegible] Right hand Each $2.95
4K [illegible] Left " 2.95

Overland—Model 90T
4K5786—Right hand Each, $2.95
4K5787 Left " 2.95

Overland—Model 90RT
4K5788 Right or left hand Each $2.95

Studebaker—Model 1915 to 1919
4K [illegible] 4 and 6 cylinder models Each, $2.95

"FAULTLESS" TIRE COVERS



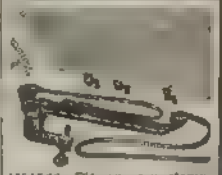
For tires of [illegible] makes adjustable much easier than old style snaps good weight duck beautifully finished

4K3054 [illegible] Each $2.25
4K3055— [illegible] 2 25
4K3056— [illegible] 2.45
4K3057— [illegible] 2.45
4K3058 [illegible] 2.45
4K3059 [illegible] 2.45
4K3060 [illegible] 2.65
4K3061 [illegible] 2.65
4K3062— [illegible] 2.65
4K3063 [illegible] 2.65
4K3064 [illegible] 2.95
4K3065 [illegible] 2.95

FOLDING AUTO CHAIR OR STOOL

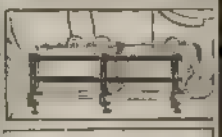
4K4836 Seat [illegible] in. seat and back [illegible] and covered with [illegible] leather effect [illegible] by wood arms [illegible] in steel frame [illegible] in dull [illegible] size closed 20x5½ [illegible] in pkg. Each $2.15

RUNNING BOARD LUGGAGE CARRIER



4K4560— Fits any car, clamps over [illegible] board, no holes to [illegible] supporting arms. Can be [illegible] in cases easily attached or removed. Complete with straps. 1 in box. Each, $2.65

"MARQUETTE" LUGGAGE CARRIER

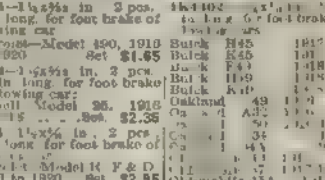


4K3705—Steel, simple in design, attached by hand operating thumb screws, attachable to any running board, [illegible] to 4 ft. folds flat when not in use, practically [illegible] 1 in box. Each, $3.95

EFFECTIVE Display is based on [illegible] arrangement, supported by an appropriate background. Send for your copy of our book on "Window Trimming." It tells you how to do this economically and easily

"RUSCO" BRAKE LINING SETS

We are first to offer complete brake lining sets for the most popular cars. By having these in stock in place of various widths and sizes as usually sold, [illegible] loss from inaccurate cutting and take more [illegible]



Made from selected long fiber pure asbestos yarn spun and interwoven brass wire superior friction surface extraordinarily strong. Impregnated with [illegible] not affected by oil, water, grease, dirt or [illegible] Set to contain

4K4300—1½x3½ in. 2 pcs. 30 in long, for foot brake of following car
Chevrolet—Model 490, 1918 to 1920 Set $1.65

4K4302—1½x3½ in. 2 pcs. 34 in long, for foot brake of following car:
Maxwell—Model 25, 1918 to 1919 Set, $2.35

4K4304 1½x3½ in., 2 pcs. 48 in long for foot brake of [illegible]
Chevrolet—Model H, F & D, 1918 to 1920 Set, $2.95

4K4306 [illegible] in long for foot brake of following cars:
[illegible] Each $3.15

4K4308 [illegible] Each $3.95

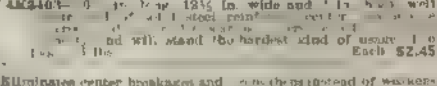
4K4402 [illegible] in long for foot brake of following cars:

Buick	H45	Buick	1917 to [illegible]
Buick	F49	Buick	1918 to 1920
Buick	H49	Buick	1918 to 1920
Buick	K49	Buick	1918 to 1920
Oakland	49	[illegible]	
Oakland	A32	[illegible]	
[illegible]	[illegible]	[illegible]	1917
[illegible]	[illegible]	[illegible]	1917
[illegible]	[illegible]	[illegible]	1920
[illegible]	[illegible]	[illegible]	
Oldsmobile 45A		[illegible]	

Set $2.95

4K4406 [illegible] in., 2 pcs. [illegible] for foot brake [illegible]
[illegible] Set $3.15

STEEL AUTO CREEPER

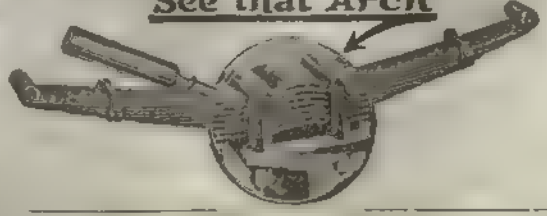


4K3407— [illegible] in. long, 12½ in. wide and [illegible] in. high, well [illegible] steel [illegible] and will stand the hardest kind of usage. [illegible] lbs. Each $2.45

TITANIC AUTO SPRINGS

special springs for any car. Expert [illegible] not shown write us for [illegible] Patent arch construction of "Titanic" springs. Eliminates center breakages and [illegible] instead of workers. [illegible] We can furnish [illegible] Your [illegible] spring make and [illegible] Send for [illegible] and [illegible]

See that Arch



Buick

4K3482—No. 280. Front spring fits models D45, D47 Each $5.85
4K3483—No. 283. Front spring fits models D34, D35 Each $6.85

Dodge

4K3485—No. 1159 Front [illegible] models 1915-16-17-18 Each $3.85

Maxwell

4K3482—No. 15121 Front [illegible] models 25-1915-16 Each $3.65

Overland

4K3483—No. 999 Front spring fits models [illegible] Each $4.00

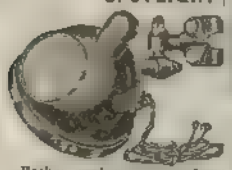
Overland

4K [illegible] Front spring fits models 80, 85 Each $4.80
4K [illegible] Front spring fits models 81 & 83 Each $4.80
4K3486—Front spring fits models 75, 75B, 1918 Each, [illegible]
4K3487—Front spring fits model 1917-1918 Each, $3.20
4K3488—Front spring fits models 80-19 [illegible] Each, $4.30

Fords—Guaranteed front spring. Has no center bolt or center rib to weaken. Patent arch and wedge shaped plate takes place of bolt and nut. Center break impossible 4K420 Each $4.00

AUTO SUPPLIES

"SENTINEL" WINDSHIELD SPOTLIGHT



Rubber cowl [illegible] fits open car windshield having [illegible] Has swivel bracket with [illegible] and connecting cord [illegible] box.

4k5677—Black enamel [illegible] Each $3.15

4k5679—Black [illegible] Each, $3.35

ELECTRIC TAIL LAMP

For regular [illegible]

4k5648—Dial [illegible] Stock bulb [illegible] prepaid with [illegible] Each [illegible]

"SEE-WHEEL" STANDARD TAIL LAMP

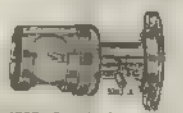
4K5649—1 pc. [illegible] Each $1.40

[illegible] Each $1.30

"ETERNAL" SEARCHLIGHT

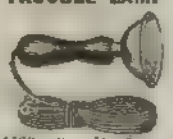
4k5775—Oil [illegible] 139-C). [illegible] Each, $5.00

"BULL PUP" DASH LAMP



4k4707—Length from dash to [illegible] center 2 in., 6 volt 2 c. p. Tungsten bulb, nickel plated, self contained turn [illegible] Each, 85c

TROUBLE LAMP



4K4829—6 volt [illegible] c. p. black enameled handle solid brass, highly polished, nickel plated reflector 2 in. bulb [illegible] Each $1.10

PLUGS AND SOCKETS FOR AUTO LAMPS

All double contact connections. Bulbs not furnished with sockets.

Plugs

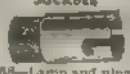
4K3382—[illegible] 1 in box. Each 12

4K3384 4K3386

4K3386—Rubber elbow plug and cap together. 1 in box. Each 24c

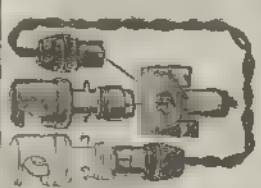
4k3368—Lamp socket with rubber cap over screw terminals. 1 in box. Each, 18c

Sockets



4K3368—Lamp and plug socket (end load). 1 in box. Each, 12c

DASH AND TROUBLE LAMP



4k4710 [illegible] 1 in box. Each, $5.00

"CONNECTICUT" LIGHTING SWITCHES

4k5819 4k5820

10 volt, 10 amps., black enameled dash plate nickel [illegible] 1 in box. Each

4k5819—Single switch .50

4k5820—2 gang switch. 70

4k5821 [illegible] .95

MIRROSCOPE

4K3385—3 in. diminishing mirror, black enameled, [illegible] Each, 95c

"LIBERTY" SIREN

4K3976 - Attaches to any car by drilling holes in exhaust manifold gives a melodious warning note by plug on cord at dash, economical because it requires no batteries. Each in a box with directions. Each $1.65

KLAXON HORNS

All [illegible] guaranteed [illegible] orders totaling $30.00 or more of one or assorted styles of Klaxon horns

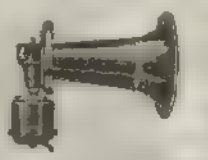
Underhood Torpedo (Mfrs No 5 Motor Driven Full Klaxon warning note, black enameled. 1 in box.

4K4191—Standard bracket. Each, $6.00

4K4190—For Ford with self [illegible] bracket [illegible] Each $6.00

Motor Driven Mfrs. No 12 known as Klaxon 90 for inter hood installation

4K4130—1 in box. Each, $13.50



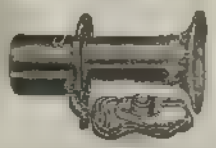
Motor Driven—(Mfrs.No. 20) separate motor case.

4K4188—1 in box [illegible] $24.00

BUELL EXPLOSION WHISTLE—With Splitdorf Spark Plug

4K5528—Most powerful, practical and perfect warning device made. Standard equipment on thirty-five well known trucks. ¾ in. thread. 1 in [illegible] Each, $4.75

"U-24" AUTO HORN —Motor driven



4k4822. 11 [illegible] enamel [illegible] mounted, [illegible] Each $4.95

"DE LUXE" AUTO CLOCKS

Solid nickel case, [illegible] complete with [illegible] bolts and nuts ready to [illegible] Each

4k4796. Plain dial $2.85

4K4796—Radium dial 3.75

"NO JAR" AUTO CLOCKS

4K5519 [illegible] Each

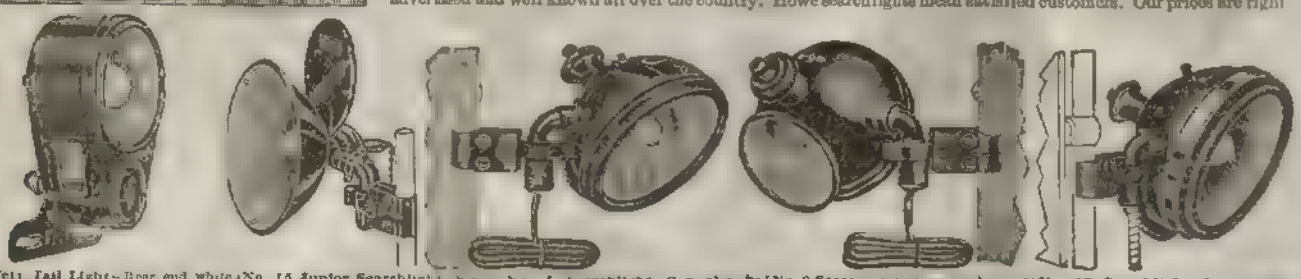
Runs on dust and [illegible] proof movement in pure black rubber case which absorbs all shocks, stem wind and set guaranteed for year against defects of workmanship and material, 1 in box.

4K5519—Steering wheel clock for Ford and Dodge cars. Each, $3.15

4K5520 - Instrument board clock for all cars. Each $3.45

HOWE Light

The most popular and reliable searchlights on the market today, because they embody the latest features of successful auto lighting. Workmanship is of the best and materials unexcelled for service. They are widely advertised and well known all over the country. Howe searchlights mean satisfied customers. Our prices are right



Safety Tail Light—Rear end white [illegible] Each **$3.25**

No. 16 Junior Searchlight—[illegible] 4K5638—1 in box. Each **$4.25**

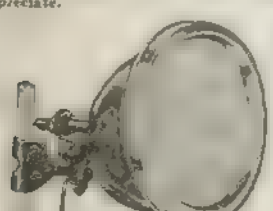
No. 5 Searchlight—Can also be used as a [illegible] Each, **$5.50**

No. 9 Searchlight—[illegible] Each **$5.85**

No. 18 Searchlight—[illegible] Each **$9.15**

"SUNBEAM" WINDSHIELD SPOTLIGHT

A ready seller at a price you will readily appreciate.



4K9245—Quick [illegible] 1 in box. Each **$2.95**

PATHFINDER WINDSHIELD SPOTLIGHT

One of the best spotlight values on the market

4K9310 [illegible] Each **$3.65**

"WIZARD" WINDSHIELD SPOTLIGHT

Stock to meet the demand while this offer holds

4K9387—All black, positive key switch [illegible] 1 in box. Each **$2.95**

"TOURIST" AUTO HORN Hand Actuated

Add this to your line of accessories. Our price is very low.

4K4127—9 in. over all, black enameled, vanadium steel diaphragm with [illegible] contact points, machine cut hardened [illegible] 1 in box. Each **$2.85**

BOYCE MOTO-METERS

The Boyce Moto-Meter is a heat indicator, mounted on the radiator cap of your car so that the radiator temperature is at all times visible while you drive. It absolutely insures the vital part of your car, the motor, against damage, and by its use you can tell instantly when the radiator needs water, when the lubricating system needs more oil, when the fan belt breaks or slips, when there is dangerous heat congestion anywhere throughout the motor.

STANDARD MODEL

Designed for those who want the best. A perfect heat recording instrument, with extremely broad ribbon bore thermometer tube.

Weight each, lbs..... 1
Each $10.00

DE LUXE

Identical in every respect with the Standard, except that is heavily silver plated and highly finished.

Regular equipment includes a Schlaich lock.

Weight each, lb 1
Each $15.00

UNIVERSAL MODEL

Is what the name implies. Not only an ornament to any car, but thoroughly reliable, and extremely accurate.

Weight each, lbs ..... ¾
Each $7.50

JUNIOR MODEL

Handsome in appearance, very accurate, and appeals to owners of medium size cars.

Weight each, lbs ..... ½
Each $5.00

TRACTOR MODEL

Specially designed for rough usage and to withstand the hardest vibrations and strains to which it might be subjected in truck and tractor use.

Weight ea. 1½ lbs..Each $10.00

MIDGET MODEL

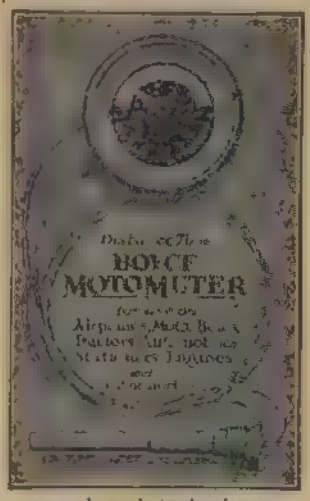
Meets the demands of small or light cars. Guaranteed accurate and sturdy.

Weight each, lbs. ..... ¼
Each $2 50

SPECIAL FOR FORDS

Without question this is the best purchase any Ford owner can make. It will make the car look better, run better and last longer. Packed one in a carton. Weight, 7 ounces.

In .....Each $3 50

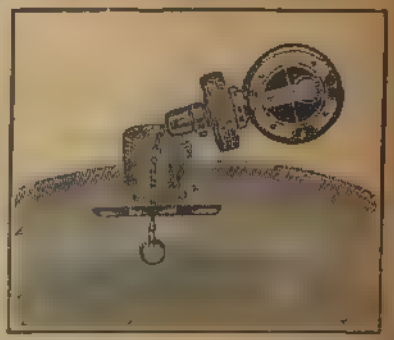


DISTANCE MODEL

The newest type, specially recommended for marine work and a good all-around instrument for tractors, stationary engines and high class cars. Registers full scale of 30° to 212°. No gears. Direct movement of the pointer. Smooth, unbroken non-vibrating movement of the hand. Weight each, with 12 feet of tubing, 12 ozs.

Each $18 00

MOTO-METER LOCKS



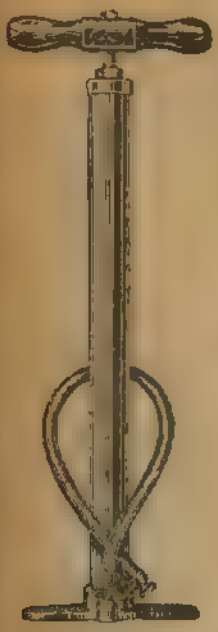
The Schlaich lock allows you to unscrew the cap and fill the radiator as you always did. But it doesn't allow a thief to walk off with your Boyce Moto-Meter. Nor does it permit you to lay down the instrument where it can drop on the ground and be broken. It can't be removed from the car.

You can attach the Schlaich lock yourself. No drilling or mechanical work of any nature. Yet when it's on it can't come off—except when the set screw is removed, which can be done only by the owner. Adjustable to any depth radiator neck by placing ring in holes of chain.

The strongest thief with the strongest pliers cannot cut the nickel plated brass chain that connects the channel bar to the Boyce Moto-Meter stem. Made in four sizes, as follows:

Nos.	Size, in	Models	Each
1	¾	DeLuxe and Truck and Tractor	$2 00
2	⅝	Standard and Universal	1 80
3	½	Junior and Ford	1 80
4	Special	Overland Types	1.50

TIRE PUMPS



CROWN

A high class single action pump with seamless brass cylinder. Heavy cast base.

Height over all, inch..... 20
Length of cylinder, inch..... 17
Diameter of cylinder, inch..... 1¼
Weight, lbs 2½
Crown .....Each $2.50

BRIDGEPORT ACE

Heavy seamless drawn brass cylinder. Substantial base, all polished.

Height over all, inch..... 20½
Length of cylinder, inch..... 19½
Diameter of cylinder, inch..... 1¼
Bridgeport Ace .....Each $3.50

BRIDGEPORT 16

Similar in construction and size to the Ace, designed to meet the demand for a strong high grade single action pump of simple construction. The size of the cylinder provides the greatest volume of air per stroke of any single action pump on the market. Diameter of cylinder, 1½ inches.

Bridgeport 16—Weight 4¾ lbs..Each $4.00

AEOLUS

A powerful double action pump made of seamless brass tubing cylinders which are fitted into the base by heavy brass lock nuts, making it absolutely air-tight. Heavy cast base.

Height over all, inch..... 20
Length of cylinder, inch..... 16
Weight, lbs 5
Aeolus ..... Each $4 50

One in carton

BRISK BLAST

A double cylinder, seamless steel pump. Cast iron screw in base. Height over all, 20 inches. Similar in construction to Aeolus.

No. 100
Length of cylinder, inch..... 16
Weight, lbs 4
Each $2.50

ROSE

A single action steel cylinder pump, fitted with a patent valve which eliminates friction and produces as much air with one cylinder as most pumps do with three cylinders. Made of 18 gauge steel tubing with heavy brass top and base. Solid steel plunger.

Cylinder, inch	1¼	1½
Height over all, inch..	22	23
Length of cylinder, in.	20	20
Weight each, lbs	3½	4
Each $3 00		$.50

One in a carton.

SKINNER COMPOUND

A compound pump which discharges on down stroke only and which pumps against 90 lbs pressure as easily as against 10 lbs. Construction embodies three cylinders, 1½-inch, ⅞-inch and ⅝-inch. 18 inches long telescoped. Made of 20 gauge steel, nickel plated and polished. Heavy cast iron base, black enameled. Detachable hardwood handle.

Length over all, inch..... 24
Weight, lbs 3
Skinner .....Each $5 00

One in a box

HART-BELL

The most important feature of any pump is the leather bucket. It makes the pump pump. It must at all times fit the barrel snugly. In the base of a Hart-Bell pump is a conical-shaped tool and the base of the cylinder flares (see illustration), so that at every stroke the leather bucket automatically slips over the forming tool and is spread out larger than the circumference of the barrel, thus insuring a tight fit. When the pump is idle the leather bucket fits over the forming tool, which keeps the leather in shape and preserves it in perfect condition for the emergency call. The cylinder is made of 1½-in diameter steel tubing which screws into a heavy malleable iron base. The plunger rod is of heavy cold rolled steel with hardwood handle. Finished both inside and out by the Parker patented process, the process used by the United States Government, thus insuring protection against rust. Average weight, 4¼ lbs.

Hart-Bell No. 1—20-inch cylinder .....Each $4.50
Hart-Bell No. 2—17-inch cylinder ..... " 4.50

Thirty-six in a box.

WATERBURY

A high grade three-cylinder brass pump. Forces air into tire at both up and down stroke. Heavy cast base.

Height over all, inch..... 21½
Length of cylinder, inch..... 18
Weight, lbs 9¼
Waterbury .....Each $7 00

One in a carton

BOYCE MOTOR METER

MIDGET MODEL

A model especially designed to exactly suit the needs of the small or light car. It possesses the same accuracy of the larger models with the same high quality of workmanship and finish. Built to fit the regular radiator cap of all Chevrolet "490", Maxwells and other small cars.

Midget .....Each, $2.50

SPECIAL FORD MODEL

Complete with Handsome Nickel Radiator Cap.

Without question the Boyce Moto-Meter is one of the greatest money and trouble savers any Ford owner can put on his car. It will make any Ford look better—run better and last longer.

Ford Special .....Each, $3.50

JUNIOR MODEL

This model is extremely handsome in appearance and appeals strongly to owners of medium size cars. The frame is heavily nickel-plated and it has the same accurate range of temperature and perfect workmanship as the "Standard" and "Universal" Models.

Junior .....Each, $5.00

UNIVERSAL MODEL

Slighly smaller in size than our "Standard" Model, but in workmanship and accuracy they are the same. Finished in all nickel with bevelled plate glass crystals both front and rear. Very striking in appearance, giving a touch of "class" to any car.

Universal .....Each, $7.50

STANDARD MODEL

A perfect heat-recording instrument of the highest type—designed for those who want the best. The thermometer tube gives a broad ribbon effect, due to the magnification feature incorporated in the tube. Finished in black enamel and nickel with heavy plate glass bevelled crystals, front and rear, sat dustproof and waterproof. Because of its perfection of workmanship, the Standard Model has been selected as regular equipment on America's leading cars.

Standard .....Each, $10.00
Truck and Tractor. . ..... " 10.00

DE LUXE MODEL

This handsome instrument was designed for the highest grade passenger cars. The temperature tube is ⅛ inch in diameter, having a broad column of red liquid, readable at a great distance.

The case is silver plated and the finish of the entire instrument is of the very highest quality of workmanship.

De Luxe—Size, 3⅝x5⅝ in. Weight (packed in substantial carton), 20 oz. .....Each, $15.00

BUELL EXPLOSION WHISTLES

SINGLE TONE

CHIME

A new type warning signal, operated by the explosion in the engine cylinder. Easily installed by merely removing one priming cup and screwing the whistle in its place. Gives a distinctive and very powerful note, which can be readily varied according to traffic conditions.

Construction is so simple it cannot get out of order. Very efficient as a warning. Does not impair efficiency of cylinder, as it takes only a small portion of the gas during one or two explosions. Should not be confused with exhaust whistles, from which it differs radically.

Permanent satisfactory operation is guaranteed. Can be used on the Ford and cars without priming cup openings, by the use of a special spark plug which is designed to carry the valve. Shipping weight, 1¼ lbs.

Single Tone, complete with valve	Each	$5.00
Single Tone, with ½ or ⅝-inch spark plugs	"	6.50
Chime, complete with valve	"	7.00
Chime, with ½ or ⅝-inch special spark plug	"	8.50

SAFETY WARNING SIGNAL

Solidly built, nickel plated finish. The tone is clear and musical, distinct from all other traffic sounds. Simply and easily attached, in place of priming cup in No. 2 cylinder. Control cord runs from the signal direct to steering column, within instant reach of the driver. The action of the valve is positive, and will close instantly when released by driver. Guaranteed fool proof. Special attachment for spark plug can be furnished for use in cars with overhead valves, not equipped with priming cup. Weight, ¾ lb.

No. 25—Complete ready to attach in place of priming cup.

Each $2.50

No. 25½—Spark plug attachment only for ½-inch ..... Each $0 50

No. 25⅝—Spark plug attachment only for ⅝-inch ..... Each $0.50

AERMORE EXHAUST HORN

The clear, melodious notes of the Aermore Exhaust Horn are a pleasant sensation to the ear, an effective, unmistakable warning, yet sweet, soothing and agreeable.

A pressure of the convenient foot pedal operates the horn, sounds a tuneful chord like a pipe organ. It does not paralyze the hearer, does not startle and dumfound the pedestrian, simply warns in a pleasantly definite and certain manner of your approach. It can be heard a long distance, and secures immediate attention.

Can be attached to the exhaust pipe of any car between the engine and the muffler by means of a valve operated by the foot pedal. Constructed of brass and steel nickel plated, does not become clogged, no moving parts to get out of order. Each horn equipped with pedal, cable, pulley and elbow, but without valve. See below for valves. Average weight, 4 lbs.

No. 1—15-inch for heavy and high power cars, complete except valve.

Each $9.70

No. 2—13-inch for 25 to 30 H. P. cars, complete except valve.

Each $8.70

No. 3—11-inch for 20 to 25 H. P cars and Fords, complete except valve. (State which).

Each $7 70

VALVES

FOR AERMORE HORNS

Style G—For attachment between engine and muffler, by cutting a section of exhaust pipe and inserting valve. Recommended as best position to install, where possible. Size, 1½ to 2½ inches. Average weight, 2¼ lbs.

Each $2.20

Style G

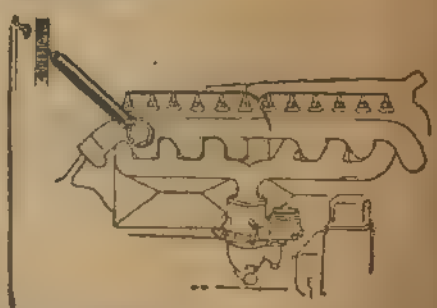
Ford Special

Ford Special—For attachment behind muffler on Ford cars where tail pipe is flattened. Weight, 2 lbs.

Each $2 20

AUTO SIREN

STILES LIBERTY



Plays sixteen melodious musical notes. Attached to the exhaust manifold under the hood of any pleasure car, truck or motor boat. Operates by the simple pull of a cord attached to the dash or steering wheel column. Costs nothing to operate. Does not in any way interfere with the mechanical operation of the car.

Weight, lbs 18
Each $3.50

HEADLIGHT LENSES
MACBETH

SCIENTIFICALLY BUILT

An automobile headlight lens built on the same fundamental principles of light control as the celebrated Macbeth lighthouse lenses.

The front surface of the Macbeth Lens is divided into five horizontal prisms, each of which is inclined to an angle that was determined with scientific accuracy. As a result the light is directed down below the horizontal, lighting the path of the car at the greatest distance possible without having the glare of the lamps blind the driver in an approaching automobile. The concave recesses in the back of the lens spread the light laterally, thus providing the very essential side lighting necessary for country driving and for turning corners.

The driver is enabled to get a clear vision of the road 300 feet ahead. At the same time a driver in an approaching automobile is not blinded by the glare, due to the fact that the light is on the road and not in the air.

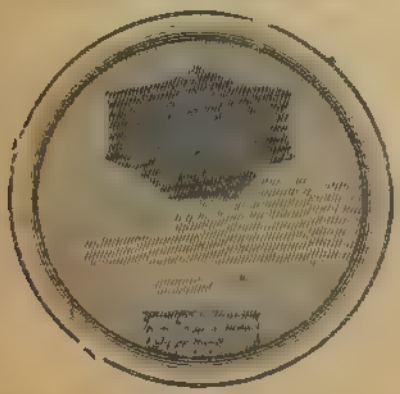
Macbeth lenses are made in all sizes to fit standard lamps.

We carry in stock sizes 7 to 10½ inches in diameter.

Macbeth—Any size.....**Per pair $5.75**

Always specify diameter of lamp and lens

CALIFORNIA HIGH SPEED



Heads the list of approved headlight devices of the Motor Vehicle Department of California, and is given the highest endorsement given any lens so far tested. (See their booklet, Traffic Rules No. 47256, revised July 31, 1919, obtainable by request State Printing Office, Sacramento). It is the most desirable lens made, as any candle power lamp, from 10 to 32, can be used without modifications or tilt of any kind. Any one can make the change in ten minutes. Take out the old and put in the new without changing lamps or tilting headlight. The lens gives the most remarkable and desirable light that can be produced, not a dancing, bobbing beam, but a full daylight ray, far in the distance and at both sides, making a perfect driving light.

While many lenses were tested, and practically all were approved, many were burdened with complicated adjustment, necessitating changes of lamps and tilting of headlights, but the California High Speed Lens combines all the good points, and eliminates all the undesirable modifications, making it 100% perfect.

High Speed—Any size.....**Per pair $8.00**

One pair in a carton. Weight per pair, 2 lbs.

PIPE AND CIGAR LIGHTERS

No. 199PL

No. 202

No. 199PL—Pipe lighter. Nickel plated holder, which can be attached ot any part of the car. Ten feet of cord and Ediswan plug that fits any socket. Mounted six on counter display card.

Per dozen **$24.00**

No. 202—Cigar lighter. Nickel plated holder. Complete with regular terminals and ten feet of cord. Mounted six on counter display card.

Per dozen **$30.00**

No. 199PCL—Pipe and cigar lighter complete with chromium nickel tip and holder, either single or double contact plug.

Per dozen **$24.00**

Average weight per card, 2 lbs.

TROUBLE LAMPS

Made especially for use on autos and motor boats. It has a heavy beveled plate glass lens, with a 3½-inch parabolic reflector, and will throw a powerful beam of light over 100 feet. It is ruggedly built for real rough service, with highly polished hardwood, heavily nickeled metal parts, and has 10 feet of flexible waterproof cord with suitable attaching plug on the end. Furnished with a 6-volt lamp unless otherwise specified.

No. 3751—Fitted with G6, 4 C. P., single contact, Ediswan Base Lamp and Attachment Plug. Weight, each, 1 lb.

Each **$3.75**

No. 3752—Fitted with G6, 4 C. P., double contact, Ediswan Base Lamp and Attachment Plug. Weight each, 1 lb.

Each **$3.75**

BUFFALO SCALES
MOTOR TRUCK
TYPE A RIGID BEARING

In keeping with the usual high quality of all Buffalo scales this type is designed and built according to the construction used in railroad track scales. It is particularly adapted for weighing heavy vehicles and motor trucks where the load is concentrated on the rear axle. Complete with compound beam, short arm pillars and shelf steel for commercial construction. Customer to furnish lumber and concrete for foundation.

No.	2245
Capacity, tons	20
Platform, feet	20x9
Edge of platform to beam rod	4' 6"
Weight complete, lbs.	45,526
Each	$775 00
Fabricated structural steel and anchor bolts	$400.00

WAGON AND STOCK WITH DOUBLE BEAM

Shallow Pit, Solid Lever Pattern

Buffalo Shallow Pit Wagon Scales are heavy enough not to require truss rods. Such scales, while slightly more expensive than the trussed lever pattern, are very desirable for damp pits where truss rods may rust enough to impair the accuracy of the scale. Heavy polished brass double beam and sliding poises. 2000-pound upper beam, with 5-pound marks; 1000-pound lower beam, with 2½-pound marks. Graduated counterpoise.

No.	2208
Capacity, tons	6
Platform, feet	15x8
Edge of platform to beam rod, inch	25½
Shipping weight, lbs.	1000
Each	$630.00

Each scale packed in two cases.

WAGON AND STOCK WITH COMPOUND BEAM
Beams Furnished on Scales Nos. 2222 to 2234

The compound beam wagon and stock scales are the same construction as the double beam wagon and stock scales.

Trussed Lever Pattern

Polished brass compound beam and poises. No. 2228 has a 14,500-pound main beam, with 500-pound marks; 500-pound unit beam, with 5-pound marks; 5000-pound tare beam, with 10-pound marks. No. 2234 has a 21,500-pound main beam, with 500-pound marks, 500 pound unit beam, with 5-pound marks; 8000-pound tare beam with 20 pound marks.

	2228	2234
Nos.		
Capacity, tons	10	15
Platform, feet	22x8	22x9' 8½"
Edge of platform to beam rod, inch	26	32
Shipping weight, lbs.	1475	2100
Each	$442.50	$525.00

The prices quoted on the above scales do not include lumber or foundation, which are to be furnished by the purchaser.

Each scale packed in three cases.

SCALE WEIGHTS
Cast Iron, for Buffalo portable platform scales.

Size, lbs	50	100	200
Each	$0.75	1.00	1 50

PLATFORM SCALES

BATHROOM

Cast iron, white enamel. Nickel plated brass single beam and poise. The tall pillar places the beam on a level with the eye. Suitable for use in private houses, and especially in bathrooms. Without measuring rod.

No.	822
Capacity, lbs by 1 oz.	300
Platform, inch	10½x14½
Shipping weight, lbs	90
Each	$48.00

PORTABLE PORK AND GRAIN BUFFALO

Especially suited for use in packing houses, flour mills and feed stores, for weighing meats, grains, flour in bags and all bulky commodities.

Cast iron frame with wheels, finished in black, blue and gold. Polished brass beam and poise with set screw. Beam is marked to 100 pounds by ½-lb marks.

No. 1412—Capacity, 1000x½ lbs; platform, 42x30 inches. Shipping weight, 620 lbs.

Each $125.00

REGULAR TWO PILLAR DORMANT

Iron frame. Gold bronze pillars. Hardwood cap and shelf. Polished brass beam and sliding poises.

No. 1717B—Capacity, 1500x½ pounds; platform, 42x30 inches. Platform to pillars, 8 inches. Shipping weight 825 lbs.

Each $240.00

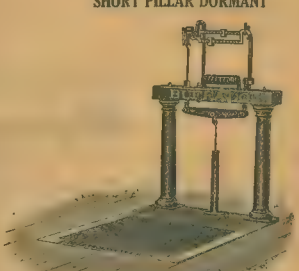
No. 1721—Capacity, 2500x½ pounds; platform, 46x37 inches. Platform to pillars, 11½ inches. Shipping weight, 875 lbs.

Each $247.50

No. 1723—Capacity, 3500x½ pounds; platform, 42x44-inch. Platform to pillars, 12 inches. Shipping weight, 1050 lbs

Each $270.00

SHORT PILLAR DORMANT



No. 1735—Capacity, 2500x½ pounds; platform, 46x37 inches. Platform to pillars, 11½ inches. Shipping weight, 750 lbs.

Each $225.00

All above, one scale in two cases.

Grand Opera Phonographs

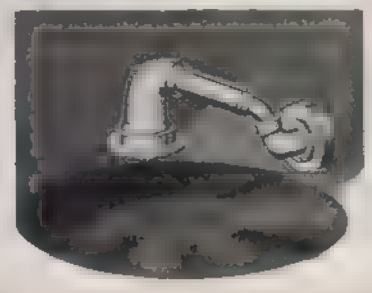
High grade instruments combining all the improved features so necessary to the perfect reproduction of all musical sounds. The designs are strictly up-to-date, the all-wood tone chamber, speed regulator and special tone modifier combine to produce an instrument that is positively unsurpassed in construction and musical tone quality—and we **guarantee** each and every one. More phonographs are being sold this year than ever before. Sales are easy and profits for the dealer better than the average. Order one or two for display and to sell from. You can then reorder as you need the goods.

$210.00 RETAIL VALUE—Ht. 51 in., width 24 in., depth 26 in., genuine hand carved corner posts on top and bottom, carved grill, nickel spring micrometer adjusted motor, plays 5 records with 1 winding, automatic stop and speed regulator, brake and tone modifier, and all exposed parts heavily nickel plated. 1 in case. 165 lbs.

		Each
F8715	Genuine mahogany	$126.00
F8717	Genuine quartered oak	
F8719	Golden oak or fumed finish	

$250.00 RETAIL VALUE—Ht. 51 in., width 23 in., depth 26 in., hand carved corner posts and carved grill, triple spring motor, plays 8 records with 1 winding, automatic stop and speed regulator, tone modifier, nickel and gold plated parts. 1 in case. 190 lbs.

		Each
F8720	Genuine mahogany	$150.00
F8722	Genuine quartered oak	
F8724	Golden oak or fumed finish	



This shows the position of the reproducer when set to play Victor, Columbia, Emerson, OkeH and other lateral cut records.

Universal Tone Arm

PLAYS ALL RECORDS

The Universal Tone Arm of Grand Opera Phonographs is [illegible] guards correctly to all prospective purchasers. Be sure to explain this as a selling point and you will profit by it.

This reproduction shows the position of the reproducer when set to play OkeH, Pathe, Edison and other vertical cut records.

UNIVERSAL TONE ARMS

PLAYS ALL RECORDS

Grand Opera Phonographs

WOOD TONE CHAMBERS

NEW TONE MODIFIER

$95.00 RETAIL VALUE Ht. 48 in., width 19 in., depth 12½ in., good grade double spring worm gear driven motor, 12 in. turntable, nickel plated tone arm and parts. 1 in case. 115 lbs.

Each **$57.00**

E8700 Mahogany finish
E8702 Oak finish
E8704 Golden oak finish

$140.00 RETAIL VALUE Ht. 45 in., width 21 in., depth 21 in., double spring, micrometer adjusted motor, plays 2 records with one winding, 12 in. turntable, automatic stop, plano hinge, metal parts nickel plated, solid carved. 1 in case. 165 lbs.

Each **$84.00**

E8705 Genuine mahogany
E8707 Genuine figured oak
E8709 Golden oak finish

$170.00 RETAIL VALUE Ht. 50 in., width 23 in., depth 23 in., double spring, micrometer adjusted motor, plays 3 records with one winding, 12 in. turntable, automatic stop, latest oak, piano hinge, solid carved or hand carved metal parts nickel plated. 1 in case. 195 lbs.

Each **$102.00**

E8710 Genuine mahogany
E8712 Genuine figured oak
E8714 Golden oak finish

BUTLER BROTHERS, RANDOLPH AND CANAL STREETS, CHICAGO

Overalls and Coats

Union Made

The ample size carefully measured proportions and fabric quality of Union Jack Overalls assure the satisfaction and satisfaction that will make each one a favorite for Union Jack wearers everywhere. Particular attention is given to the [illegible] of long wearing qualities, the sewing and finishing of pockets and seams. Tapes are used to reinforce the continuous fly which makes it almost impossible to tear. The side facings are reinforced with an extra strip of cloth, making the garment very much stronger. The suspender buckles are the type of easily adjusted pattern. Note the high tapering back of the Union Jack railroad styles.

"UNION JACK" OVERALLS

Sewed with [illegible] reinforced bar tacks at [illegible] by continuous forcing. 2 buttonhole [illegible] extra [illegible] sewed [illegible] front saw cut [illegible] pockets [illegible] extra large hip pockets with flap [illegible] pencil pocket, watch fob [illegible] back pencil pocket on apron [illegible] brass buttons.

DETACHABLE SUSPENDER BACK

Union Jack heavy wide elastic insert [illegible] spring catch.

240 Wt. Double & Twist Denim. Regular sizes.

SD[illegible]	Open stock	Dz.	$38.00
SD[illegible]	Western asst.	Lots of 10 dz.	37.25
SD[illegible]	Southern asst.		36.50

220 Wt. White Back Denim. Regular sizes.

SD[illegible]	Open stock	Dz.	$42.50
SD[illegible]	Western asst.	Lots of 10 dz.	41.60
SD[illegible]	Southern asst.		40.50

IMPROVED RAILROAD BACK

[illegible] improved by [illegible] caps crossed and stitched, sliding loop catch.

240 Wt. Double & Twist Denim. Extra sizes.

SD[illegible]	Open stock	Dz.	$38.00
SD[illegible]	Western asst.	Lots of 10 dz.	37.25
SD[illegible]	Southern asst.		36.50

240 Wt. Double & Twist Denim. Extra sizes.

SD5[illegible]	Open stock	Dz.	$41.25
		Lots of 10 dz.	40.60
			39.75

220 Wt. White Back Denim. Regular sizes.

SD[illegible]	Open stock	Dz.	$42.50
SD[illegible]	Western asst.	Lots of 10 dz.	41.50
SD[illegible]	Southern asst.		40.50

220 Wt. White Back Denim. Extra sizes.

SD[illegible]	Open stock	Dz.	46.75
		Lots of 10 dz.	45.50
			44.25

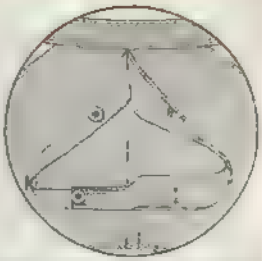
"UNION JACK" COATS

[illegible] seam back, finished 32 in. long, closed [illegible] shoulders curved [illegible] [illegible] [illegible] [illegible] 2 side pockets finished [illegible] [illegible] [illegible] [illegible]

"Boss Mechanic"

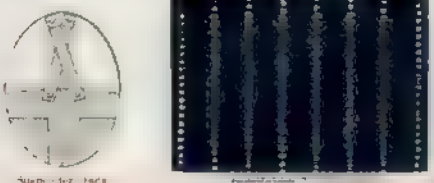
OVERALLS & COATS

Genuine indigo dyed plain denim and the well known "Stifel" indigo drill. Cut very generous sized patterns and carefully processed to insure comfort and freedom of movement at work. The continuous facings at fly and side openings prevent ripping. Coats extra long. Note the service guarantee that goes with each garment.



Overalls Triple stitched sewed on pearl buttons reinforced by [illegible] triple stitched [illegible] seams. Triple stitched [illegible] to insure extra strength. [illegible] pockets. Bib lined with [illegible] pocket. Side [illegible] pockets. Riveted [illegible] Measurements [illegible].

Coats Seam back, [illegible] finished, triple stitched [illegible] seams, sloped shoulders, curved armholes for [illegible] sleeves, 4 pockets, 2 [illegible] to open entrance front, regulation collar, [illegible] cuffs on [illegible] sleeves with [illegible] and 6 [illegible] buttons.



Suspender back

Railroad back

RAILROAD BACK —Regular Sizes

1 front pocket, shoulder straps crossed and stitched, triple loop side straps.

240 Wt. Double and Twist Indigo Denim

8D5852-1 Open stock.
8D5852-2 Western asst. 1 doz. in bdl.
8D5852-3 Southern asst. 1 doz. in bdl.

	Doz.
Lots of 10 doz.	[illegible]
" 25 "	[illegible]

220 Wt. White Back Denim

8D5001-1 Open stock.
8D5001-2 Western asst. 1 doz. in bdl.
8D5001-3—Southern asst. 1 doz. in bdl.

	Doz.
	$39.50
Lots of 10 doz.	38.50
" 25 "	37.50

265 Wt. Wabash Stripe "Stifel" Indigo Drill—

8D5145-1 Open stock.
8D5145-2 Western asst. 1 doz. in bdl.
8D5145-3 Southern asst. 1 doz. in bdl.

	Doz.
	$27.00

RAILROAD BACK—Extra Sizes

240 Wt. Double and Twist Indigo Denim

8D5854 Open stock.

	Doz.
	$38.50
Lots of 10 doz.	37.75
" 25 "	37.00

220 Wt. White Back Denim

8D5007 Open stock.

	Doz.
	$43.50
Lots of 10 doz.	42.50
" 25 "	41.50

DETACHABLE SUSPENDER BACK—Regular Sizes

Detachable suspenders. Boss Mechanic elastic web inserts in wide sliding pull [illegible] spring steel stays.

240 Wt. Double and Twist Indigo Denim

8D5851-1 Open stock.
8D5851-2 Western asst. 1 doz. in bdl.
8D5851-3 Southern asst. 1 doz. in bdl.

	Doz.
	$35.00
Lots of 10 doz.	34.25
" 25 "	33.50

220 Wt. White Back Denim

8D5001-1 Open stock.
8D5001-2 Western asst. 1 doz. in bdl.
8D5001-3 Southern asst. 1 doz. in bdl.

	Doz.
	$39.50
Lots of 10 doz.	38.50
" 25 "	37.50

265 Wt. Wabash Stripe "Stifel" Indigo Drill—

8D5145-1 Open stock.
8D5145-2 Western asst. 1 doz. in bdl.
8D5145-3 Southern asst. 1 doz. in bdl.

	Doz.
	$27.00

DENIM BAND OVERALLS

2 front swing, 2 hip and 1 watch pocket, extra large "California" back strap with buckle.

240 Wt. Double and Twist Indigo Denim

8D5051-1—Open stock
8D5051-2 Western asst. 1 doz. in bdl.
8D5051-3 Southern asst. 1 doz. in bdl.

	Doz.
	$34.50
Lots of 10 doz.	[illegible]
" 25 "	33.00

[illegible] WAIST COATS

Sizes 36 to 44. 1 doz. in bdl.

240 Wt. Double and Twist Indigo Denim

8D5656-1 Open stock.
8D5656-2 Regular asst. 1 doz. in bdl.

	Doz.
	$35.00
Lots of 10 doz.	34.25
" 25 "	33.50

220 Wt. White Back Denim

8D5007-1 Open stock.
8D5007-2 Regular asst. 1 doz. in bdl.

	Doz.
	$39.50
Lots of 10 doz.	[illegible]
" 25 "	37.50

265 Wt. Wabash Stripe "Stifel" Indigo Drill—

8D5147-1 Open stock.
8D5147-2 Regular asst. 1 doz. in bdl.

	Doz.
	$27.00

"BOSS MECHANIC JUNIOR" OVERALLS

240 wt. double and twist indigo blue denim. Made as ours except as stated. Sold to any part of [illegible] as follows:

Waist	26	27	28	29	30	31
	2	2	2	2	2	2
Leg	25	25	25	25	25	25

Detachable suspenders. Boss Mechanic elastic web inserts, sliding pull [illegible] spring steel stays, button conformative fit.

8D5155-1 Open stock.
8D5155-2 Regular asst. 1 doz. in bdl.

	Doz.
	$27.00
Lots of 10 doz.	26.50
" 25 "	26.00

"BOSS MECHANIC BROWNIE" BLUE [illegible] OVERALLS

240 wt. Peerless indigo denim. 2 vest, 2 hip, 1 watch pocket, all stitched, riveted and [illegible] pockets. Extra large [illegible] shoulder straps crossed and stitched, triple stitched [illegible] seams, [illegible] sizes, waist and leg measurements on all garments. Assd. sizes 1 doz. in bdl.

8D5131 Sizes 3 to 8 yrs.

	Doz.
	$22.50
Lots of 10 doz.	[illegible]
" 25 "	21.50

8D5154 Sizes 10 to 15 yrs.

	Doz.
	$18.00

SIZE SCALE

	REGULAR SIZES								EXTRA SIZES			
Waist	31	32	33	34	36	38	40	42	Waist	44	46	48
Leg	31	31	31	31	31	31	32	[illegible]	Leg	32	32	32
	32	32	32	32	32	32	33	33		33	33	33
	[illegible]		[illegible]	33	33	33	34	34		34	34	34
	[illegible]		[illegible]	34	34	34	[illegible]	[illegible]				
	[illegible]		[illegible]	35	35	35	[illegible]	[illegible]				

Packing: Open stock. Western, Southern or regular asst. 1 doz. in bdl.

BAR & PACKAGE CANDIES

Nationally known lines persistently advertised and in continuous demand. Selling these candies in these convenient and sanitary wrappings saves time and makes small sales extremely profitable. Demands for package goods are growing daily. Show a full line.

AUERBACH'S BAR CANDIES

Milk Chocolate Bar—Sweet milk chocolate bars
2Y1450—24 in box. . . .Box $1.20

Orange Bar—Orange fruit in cream center chocolate covered
2Y1485—24 in box . . .Box $1.25

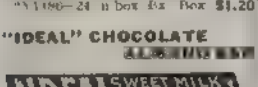
Marshmallow Bar—Rich marshmallow center chocolate covered
2Y1455—24 in box Box $1.20

Almond Bar—Milk chocolate with roasted almonds
2Y1465—24 in box Box $1.25

Peanut Bar—Milk chocolate with roasted peanuts
2Y1492—24 in box . Box $1.25

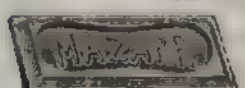
Coconut Cream Bar—Chocolate covered coconut cream bar
2Y1480—24 in box Box $1.20

"IDEAL" CHOCOLATE BLOCKS



2Y1441 The original large bar sweet milk chocolate with toasted almonds wrapped 24 in box Box $1.25

MILK CHOCOLATE BLOCKS



Mazer—Solid block of high grade sweet milk chocolate, unwrapped.
2Y1054—24 in box Box $1.10

Rainbow—3 oz., solid blocks of high grade plain sweet milk chocolate, delicious eating and of high food value.
2Y1036—20 unwrapped blocks in box Box $2.10

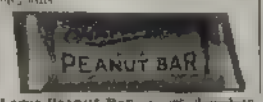
KLEIN'S CHOCOLATE BARS

Lunch Bar—Tasty combination of pure sweet milk chocolate and high grade toasted peanuts, large bar full wrapped and ribbon banded
2Y1401—24 in box Box $1.20

Cream Nut Bar—High grade milk chocolate with whole roasted salted almonds full wrapped ribbon banded
2Y1992—24 in box. . . .Box $1.25

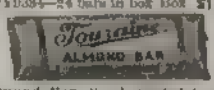
TOURAINE'S CHOCOLATE BARS

Note—Merchant's profit sharing coupon in each box (box 24 bars) 96 almond bars will be given free in exchange for 24 half or 12 whole coupons.

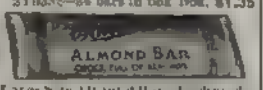


Large Peanut Bar—Sweet chocolate well filled with blanched peanuts, wax paper wrapped, banded
2Y1160—24 in box Box $1.05

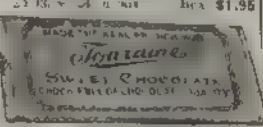
Peanut Bar—Sweet chocolate with nuts.
2Y1384—24 bars in box Box $1.00



Almond Bar—Sweet chocolate of high grade with choice whole or split almonds, wrapped and banded.
2Y1338—24 bars in box Box $1.35



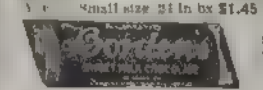
Large Size Almond Bar—Sweet chocolate with whole almonds, wax paper wrapped and banded.
2Y1345—24 in box Box $1.95



Large Size Solid Chocolate Bar—Rich high grade sweet chocolate, wax wrapped, ribbon banded.
2Y1150—24 bars in box Box $1.95

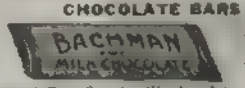
BORDEN'S CHOCOLATE BARS

Plain Sweet Milk Chocolate—Large 1 lb. bar. Box
Small size 24 in box $1.45



Almond Bar—Standard size sweet milk chocolate, whole almonds, each bar wrapped and sealed
2Y1045—24 in box . . Box $1.45

BACHMAN'S CHOCOLATE BARS

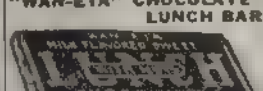


Peanut Bar—Sweet milk chocolate, filled with fresh roasted peanuts, wrapped and banded
2Y1165—24 in box Box $1.20

Chocolate Almond Bar—Sweet milk chocolate filled with fresh roasted almonds, wrapped and banded
2Y1187—24 in box Box $1.25

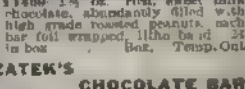
Milk Chocolate Bar—Sweet milk chocolate wrapped and banded
2Y1480—24 in box Box $1.25

"WAN-ETA" CHOCOLATE LUNCH BAR



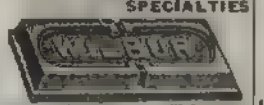
2Y1480 1¾ oz. rich, sweet milk chocolate, abundantly filled with high grade roasted peanuts, each bar foil wrapped, 12 bars in box 24 in box . . Box, Temp. Out

ZATEK'S CHOCOLATE BAR



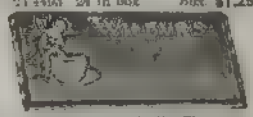
2Y1091—Cream milk chocolate bar, 24 bars or cakes in box. Box, $1.15

WILBUR'S CHOCOLATE SPECIALTIES



Wilburmilk Blocks—Plain sweet milk chocolate, unwrapped.
2Y1627—20 in box Box $2.45

Sweet Flower Chocolate Bar—Sweet chocolate bars, wrapped and banded.
2Y1493—24 in box Box $1.25

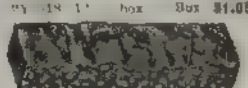


American Sweet Milk Chocolate Bar—Milk chocolate bars, wrapped and banded
2Y1494—24 in box . . Box, Out

"Wilburbuds"—Sweet vanilla chocolate buds, foil wrapped, 100 count to lb.
2Y1496—½ lb. box ribboned and wrapped. 12 in carton
Carton, $4.75
2Y1491—1 lb box, ribboned and wrapped 6 in carton
Carton, $4.75

NUT & COCOANUT LOAVES

Nut Loaves—Average weight about 3½ oz. big marshmallow loaf top clustered over with peanuts, allover chocolate covered
24 in box Box $1.05

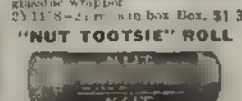


"War Baby"—A big nut loaf fudge bar unwrapped
2Y1643—24 in box Box $1.20

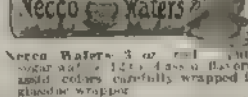
"OLD HICKORY" FUDGE BAR

2Y1941 Chocolate and vanilla nut fudge bars, extra large size in attractive Hiko top display box
36 bars in box Box $1.60

POPULAR WAFER CANDIES

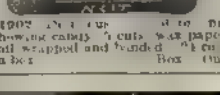


Rainbow Wafers—Pure wheat wafers, assorted flavors and colors in color wax wrapper, 24 rolls in carton
2Y4804—3 oz roll Carton $1.15
2Y4810—2½ oz. roll " 1.25



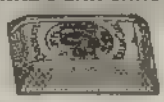
Yecco Wafers—3 oz. roll, pure sugar and egg wafers, assorted flavors, assorted colors carefully wrapped in glassine wrapper
2Y1178—24 rolls in box Box, $1.30

"NUT TOOTSIE" ROLL

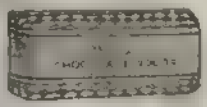


2Y1202 A delicious chewing candy, 5 cuts wax paper foil wrapped and banded. 24 rolls in box Box Out

FUNKE'S BAR CANDIES

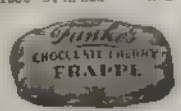


Ice Cream Chocolate Cake—Assorted flavors.
2Y1984—24 in box. . .Box $1.85

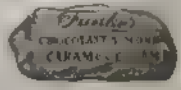


Chocolate Nougat Bar—Fine nougat center, dipped in rich dark chocolate
2Y1262—24 in box. . Box $1.85

"Big Jo" Peanut Bar—5 blanched Virginia peanut bars, wax paper wrapped and banded
2Y1202—24 in box Box $1.85



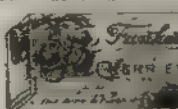
Chocolate Cherry Frappe Bar—Mixed red cherry cream chocolate dipped, foil wrapped
2Y1276—24 in box Box, $1.85



Chocolate Almond Caramel Cream Bar—Foil wrapped
2Y1277—24 in box . Box, $1.85

Chocolate Nut Goodies—Chocolate cream bar heavily coated with whole nuts and chocolate
2Y1284—24 in box . . Box, $1.85

"Big Bill"—Big marshmallow piece with chocolate cocoanut coating foil wrapped
2Y1195—24 in box. . . Box $1.85



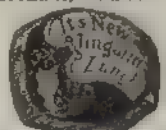
Cherry Cream Bar—Delicious ripe, red cherries in flowing cream chocolate covered
2Y1143—24 in box. . . Box, $1.85

BUNTE'S TANGOS

2Y1452 — Maple cream bottom, marshmallow center, coated with blanched peanuts, chocolate dipped, foil wrapped. 24 in box Box $1.70

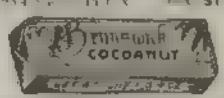
BRUNSWICK BAR CANDIES

Delicious and wholesome. Extra good in quality of ingredients. Attractive appearing packages, combined with the distinctive Brunswick quality make this a rapid selling and sure sales-repeating line

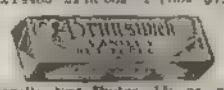


Tingalin Lunch—1¾ oz. net, flaked marshmallow chips, clustered over chocolate cream bar, foil wrapped
2Y4454—24 in box . . .Box $1.80

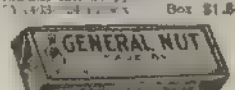
Chocolate Nut Cake—2 oz. net, selected fancy diced peanuts clustered over soft chocolate cream bar, foil wrapped
2Y4455—24 in box . . . Box $1.80



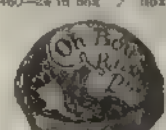
Cocoanut Fudge—1¾ oz. net chocolate flavored fudge with fresh shredded cocoanut, foil wrapped
2Y4465—24 in box . . .Box $1.80



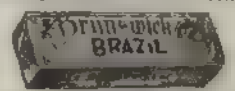
Vanilla Nut Fudge—1¾ oz. net, white cream fudge, with nuts and raisins, foil wrapped
2Y4463—24 in box Box $1.80



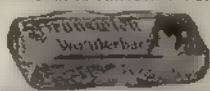
"General Nut"—1¾ oz. net, caramel nut center, sweet nutty chocolate covered, foil wrapped
2Y4460—24 in box Box $1.80



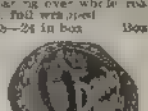
Raisin Pie—1¾ oz. net, marshmallow center heavy chocolate coating over selected Spanish peanuts and seedless raisins, foil wrapped
2Y4456—24 in box Box $1.80



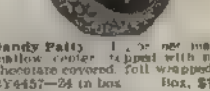
Brazil Nut Vanilla Fudge—1¾ oz. net, with Brazil nut meats, foil wrapped
2Y4461—24 in box. . . .Box, $1.80



"Wonder Bar"—1¾ oz. net caramel base, nougat, heavy chocolate coating over whole roasted almonds, foil wrapped
2Y4458—24 in box Box $1.45



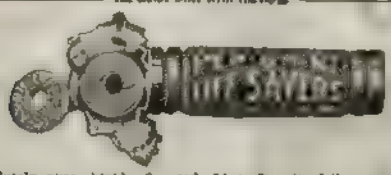
"Dandy Patty"—1¾ oz. net marshmallow center topped with nuts, chocolate covered, foil wrapped
2Y4457—24 in box Box, $1.55



"Honey Nougat"—2 oz. net real honey nougat, chocolate covered, foil wrapped.
2Y4459—24 in box Box $1.80

Brunswick Assortment—1 box each of the numbers illustrated and described above.
2Y4464—10 boxes in carton
Total $17.50 Box $1.75

Absolutely Pure **LIFE SAVERS** THE CANDY MINT WITH THE HOLE **Highly Flavored**



Absolutely pure, highly flavored. 14 wafers in foil wrapped pkg., banded. 20 pkgs. in display box

2Y1966—Peppermint
2Y1967—Wintergreen
2Y1968—Cloves
2Y1969—Licorice
2Y1970—Cinnamon

Box 80c

10 box lots, Box, 77½c

"AUNTY MAY'S" CANDIES

Chocolate Butter Cream Pudding—Wt. about 1¼ oz., rich butter cream with chocolate dipped in rich milk chocolate, each in fluted cup

2Y1975—24 in box Box $1.80

"Paradise Bar"—Wt. about 1½ oz., a delicacy made of chocolate, butter cream, whole nuts and cocoanut all blended together

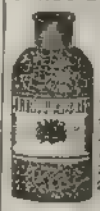
2Y1976—24 in box Box $1.80

"SEN-SEN" BREATH PERFUME

2Y8836—Breath perfume, 50 pkgs. in corrugated paper display box. Box of 50 pkgs. $1.55

Buy only from those who give you the best goods as well as dependable quality.

CANDY BROS.



FRUIT TABLETS

In 4 Lb. Glass Jar

Well known pure fruit juice tablets.

2Y1919—Horehound
2Y1920—Lemon
2Y1921—Lime
2Y1922—Raspberry
2Y1923—Wild Cherry
Ea. $1.95

2Y1924—Famous Brand of fruit tablets, assorted flavors. Jar $1.95
Total $11.70.

In 5 Lb. Tins

	Tin (5 lbs.)
2Y1926—Horehound drops	$2.25
2Y1927—Lemon drops	2.25
2Y1928—Lime drops	2.25
2Y1929—Raspberry drops	2.25
2Y1930—Wild cherry	2.25
2Y1931—Asstd.	2.25

HILLCREST FRUIT GEMS

2Y4861—Glass jar filled with pure fruit tablets, assorted cherry, orange, lemon, lime and lime-ade flavors, in all cases. 24 jars in case

Jar $1.95
Total $11.70

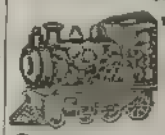
LYONS' GLAZE FRUITS

STAR VALUE

Asstd. Oil Purple Fig, Cherry and Pineapple Lozenges, packed in wood boxes with Lozenge Motto and Picture. Tied with ribbon and Cellophane wrapped

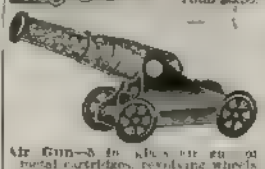
2Y1506—1 lb. boxes Box $1.15
2Y1507—3 lb. boxes 2.25

GLASS NOVELTIES—Candy Filled



Engine—4 in. long, body filled with pure candy. Each in box

2Y4842—2 dz. in box Box $1.25
Total $2.50.



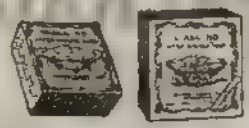
Air Gun—5 in. long, air gun of metal, cartridges, revolving wheels, adjustable range. Filled with candy pellets

2Y4511—2 doz. in carton (Total $3.50) Doz. $1.75

Assortment—8 styles, 4 in asstd. glass jars. Upon receipt of delivery order we will ship one jar each of whose filled with pure candy assorted

2Y4—Asstd. doz. in box
(Total $3.00) Doz. $1.40

"U-ALL-NO" AFTER DINNER MINTS



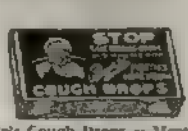
2Y4847—Made from pure cocoa and flavored with pure botanicals, sealed tin box, litho wrapped. Regular 15c seller. 20 boxes in carton. Carton $1.50

"ANGELUS" MARSHMALLOWS

2Y1891—Vanilla flavor, wholesome and delicious moistureproof pkg. 1 doz. pkgs. in carton.

Doz. pkgs. $1.70

COUGH DROPS AND LICORICE STICKS AND DROPS

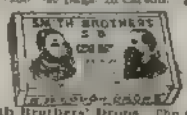


Smith's Cough Drops—Menthol-horehound cough drops.

2Y1287—36 pkgs. in carton. Carton $1.60

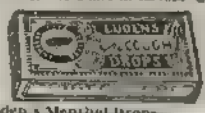
Dean's Menthalated Cough Drops—Relieves coughs, colds, hoarseness and bronchial trouble. Carton

2Y7499—40 pkgs. in carton. $1.70



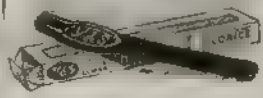
Smith Brothers' Drops—The genuine. Most popular kind now widely advertised. Carton

2Y1603—40 boxes in carton. $1.80



Luden's Menthol Drops

2Y7498—10 cents. Carton $1.90



Y & S Licorice Sticks—Pure

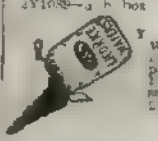
2Y3318—30 cartons in box Box $2.10

Red Cross Cough Drops—Prescribed for coughs and throat irritations

2Y1918—40 pkgs. in display carton. Carton $1.90

Licorice Lozenges—Licorice lozenges can be sold by count or weight

2Y1089—5 lb. box Lb 54c



Y & S Licorice Wafers—Small licorice cubes packed in mixed 5 lb. bags. A 10 cent

2Y4888—24 bags in carton. Carton $1.55

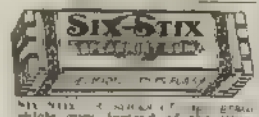
A No. 1 Licorice Drops—Old Colony fused. Nice

2Y1820—10 lbs. in box Box $1.96

CHEWING GUMS ADVERTISED BRANDS

Only the most popular of the advertised brands are enumerated here. A liberal display will give you opportunity to derive a big benefit from the extensive advertising conducted by the manufacturers. Our prices will stand the "fire test" of comparison. Order a quantity suitable for your needs

CHEWING GUMS TO RETAIL AT 6c

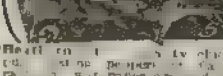


Six-Stix—A package of fine grade chicle gum, instead of the usual 5c to retail at 5c. 6 penny sticks in each wrapped package

2Y8895—20 pkgs. in box. Box. 65c

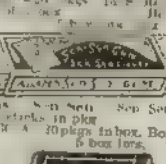
"Heath"—Made by chicle pellets with a peppermint flavor, each pellet wrapped in a foil wrapper, 24 of which are packed in a display box

Box 60c
5 box lots, 57½c



Adams' Sen-Sen—Sen Sen flavor sticks in pkg.

2Y8837—20 pkgs. in box. Box. 68c
5 box lots, 65c

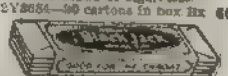


Adams' "Bloodberry"—Antiseptic, 5 jar tablets in pkg.

2Y8898A—20 pkgs. in box. Box. 68c
5 box lots, 65c

"Pall Mall"—Pure chicle pellets sugar coated, mint flavor in red & gold box similar to the widely advertised brand of cigarettes.

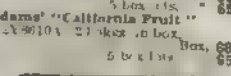
2Y8684—30 cartons in box Bx 60c



Adams' "Black Jack"—Each piece foil wrapped, 5 banded in pkg.

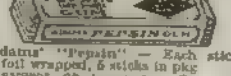
2Y8649A—20 pkgs. in box Box 68c
5 box lots, 65c

Adams' "California Fruit"
2Y8910—24 pkgs. in box. Box, 68c
5 box lots 65c



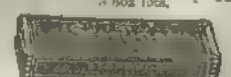
Adams' "Pepsin"—Each stick foil wrapped, 6 sticks in pkg.

2Y8805—20 pkgs. in box. Box. Out
5 box lots,



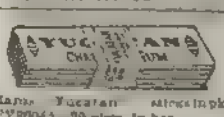
Sterling Chewing Gum—Each stick wrapped 5 sticks in pkg.

2Y8661—20 pkgs. in box Box. 68c
box lots 65c



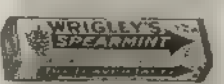
Adams' Spearmint—Each stick wrapped 5 sticks in pkg.

2Y8611—20 pkgs. in box Box, 68c
5 box lots 65c



Adams' Yucatan—5 sticks in pkg.

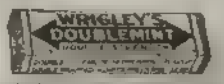
2Y8004A—20 pkgs. in box. Box, 68c
5 box lots 65c



Wrigley's "Spearmint"—Double wrapped 5 sticks in pkg.

2Y8005A—20 pkgs. in box Box 68c
2Y8006—5 box lots 65c

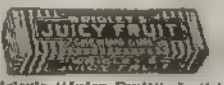
United Profit Sharing Coupon with each pkg.



Wrigley's "Double Mint"—Double wrapped peppermint gum, 5 sticks in pkg.

2Y8850A—20 pkgs. in box Box 68c
2Y8850B—5 box lots 65c

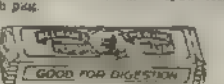
United Profit Sharing Coupon with each pkg.



Wrigley's "Juicy Fruit"—5 sticks in pkg.

2Y8852A—20 pkgs. in box Box. 68c
2Y8852B—5 box lots 65c

United Profit Sharing Coupon with each pkg.



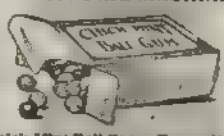
Beeman's Pepsin—5 sticks in pkg.

2Y8817A—20 pkgs. in box. Box, 72c
5 box lots, 70c

Adams' Black-Jack—Well and favorably known 5 sticks in pkg.

2Y8018—30 pkgs. in box Box 68c

PENNY BALL GUM AND "ADVANCE" VENDING MACHINES



Chick Mint Ball Gum—For vending machine. 5 flavors, each separate. 100 balls in box.

2Y8832A—Lots of 5 boxes, asstd. colors 1 box of each color, white, black, pink, orange and red. Box of 100 55c

2Y8832—Less than 5 boxes, solid colors. Specify colors. Box 60c

"Advance" Ball Gum Machine—Stout base finished in dark green and heavy glass globe, bowl and cap, about 11 inches high, total height 19 inches. Fits any standard penny gum vending machine

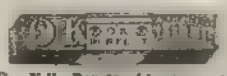
Each $6.50

2Y8681—Wall Bracket, including padlock, for above machine. Box 60c

ADAMS' CHICLETS

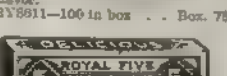
2Y8010—Peppermint flavor, 10 in pkg. 24 pkgs. in box Box 75c

PENNY AND 2-CENT CHEWING GUMS



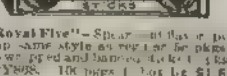
Pitch's Paraffine Gum—Well known brand, has been for years

2Y8851—100 sticks on Mint flavor, 100 sticks in box Box 75c



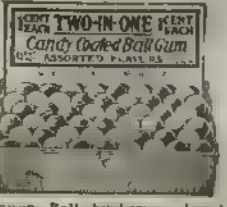
"O. K." Pepsin—Licorice mint flavor.

2Y8611—100 in box . . Box. 75c



"Royal Five"—Spearmint flavor put up same style as very popular pkgs. were put up in before the war.

2Y8858—100 pkgs. in box Box $1.65



Cannon Ball Suckers—Glass jar with round ball gum pieces in assorted flavors with gum centers assorted flavors and colors

2Y8838—100 bags in box Box 80c

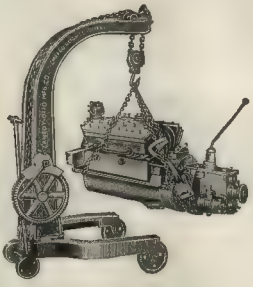
STRAIGHTENING PRESS

Bench Type for the Garage and Automobile Repair Shop

This machine will be found useful for straightening all sorts of centered work and can be fastened to the bench near the lathe. For straightening forgings, parts of automobiles and machines which have been sprung by rough usage its advantages are unlimited. Length of table, 13 in.; size of screw, 1 in. diameter No. 4 Acme thread. Extreme distance from screw to table, 17½ in.; capacity, 2 in. stock. Length of lever, 20 in. Net weight, 47 lb.

Each

Straightening Press $35 00

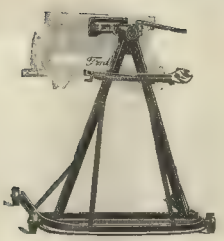


PORTABLE CRANE AND HOIST

With this Portable Floor Crane, Auto Repair Shops and Machine Shops can do away with the expense of the Overhead Traveling Crane or Chain Blocks.

The Portable Floor Cranes are suitable for all kinds of heavy lifting, cutting the time lost in handling materials, that counts against production, and in many cases paying for itself very quickly in hundreds of Machine Shops. No Shop can afford to be without a Portable Crane. They combine strength and capacity, are everlasting, easy to pull and can do their work far quicker than could a half-dozen hands, and are always on the job.

Size	Total Height	Height of Hoist	Over Hang	Width of Bed		Length of Bed	Height of Bed	Net Weight	Lifting Capacity	Each
				Outside	Inside					
1	6 ft. 0 in.	4 ft. 11 in.	2 ft. 3 in.	2 ft. 5 in.	1 ft. 9½ in.	3 ft. 1½ in.	11¾ in.	680 lbs.	1 Ton	$170.00
2	6 ft. 4½ in.	5 ft. 3½ in.	2 ft. 6 in.	2 ft. 8 in.	2 ft. 3½ in.	3 ft. 3½ in.	11¾ in.	770 lbs.	2 Ton	195.00
3	7 ft. 4 in.	6 ft. 3 in.	2 ft. 8 in.	2 ft. 10⅝ in.	2 ft. 3 in.	3 ft. 6 in.	11¾ in.	850 lbs.	2½ Ton	212.50



MOTOR STANDS

For Ford Motors

The handiest device of its kind for use in shops and garages doing Ford engine work. The Ford motor when taken from a car can be fastened to the stand by the two cap screws which screw into the side of the motor where water inlet connection is fastened. The stand is so constructed that the part screwed to the motor will revolve in the clamp on the stand and can be locked by tightening the lock-screw, which will hold the motor in any position or angle desired to suit workman. It also has a tool tray where the workman can place his wrenches or parts of the motor if so desired. It is mounted on wheels so it can be moved from place to place. It is 34 in. high; 32x30 in. floor space. Axle attachment can be used on this stand.

	Each
Ekern's Motor Stand, with Axle Attachment	$36.00
Shipping Weight, 89 Lbs.	
Ekern's Motor Stand Only	20.00

SHOP BENCH MOTOR SUPPORT

A handy device to hold your Ford motors in position on your shop bench, while working on them.

The support can be bolted very easily and quickly to any workshop bench and is amply strong to hold a whole Ford Motor assembly. By using an Ekern Axle Attachment to the support, it is also possible to hold any kind of an axle assembly in any position desired.

The motor block is attached to the support by the two cap screws on the side of the motor where the inlet connection is made. The part which fastens to the motor block is the same as used on our motor stand and also our Portable Engine Work Bench.

The casting which fastens to the motor block is made to revolve in the clamp casting which is bolted to the bench and by tightening the clamp screw, the motor or axle can be held at any angle desired.

	Each
Ekern's Shop Bench Motor Support	$10 00
Weight about 22 Lbs.	

PORTABLE WORK BENCH AND ENGINE STANDS

This outfit embodies both the features of our Ekern Motor Stand and a Work Bench and is especially designed for use in Ford Repair Shops.

It is provided with two large trays 22x24 for convenience, where the workman can place his tools, motor and axle parts. The Stand is mounted on three 4-in. diameter wheels. The rear caster wheel is so constructed that by pulling the plunger jim, the caster will swing up off the floor and the stand will then rest firmly on its legs. By kicking the caster lever down the stand will go back on its wheels and lock automatically.

A Ford assembly can be fastened to the Stand by the two cap screws which hold the water inlet connection on the side of the motor block. The part fastened to the motor will revolve in the clamp on the stand and can be locked in any position or angle, by tightening the clamp screw.

The work bench is also equipped with a machinist's vise, which has a 3-in. jaw with a 4-in. opening, which will handle any work required in overhauling a Ford motor or axle, also other kinds of work.

The Work Bench and Engine Stand is 36 in. high, 27x42 in floor space.

	Each
The Axle Attachment can be used with this Outfit.	
Portable Work Bench and Engine Stand, with **Axle Attachment**	$45 00
Shipping Weight, 129 Lbs.	
Portable Work Bench and Engine Stand Only	40.00

AXLE ATTACHMENTS

For Ekern's Motor Stand and Ekern's Portable Work Bench

This attachment is for use on either the Ekern Portable Work Bench and Engine Stand or Ekern's Motor Stand.

By merely bolting these attachments to the revolving parts of the stands, it quickly converts them into axle repairing stands for repairing nearly all makes of automobile axles, but it is especially designed for Fords.

The stands and also the axle attachment are so designed that the axle assembly can be set in any position or angle to suit the convenience of the workman.

Overhauling of an axle with this device and stand can be accomplished in about one-half the time it requires to do the work on bench or on the floor.

	Each
Ekern's Axle Attachment	$6.00
Weight about 9 Lbs.	

WALL CLOCKS

MIRADA

Eight-Day; Half-Hour Strike

Dull Mahogany Finish; Artistically Carved; Leaded Glass Fronts; Silver Finish Dial, High Grade Movement

Each

Mirada—Height 28¼ in.; Width 12 in., Weight 30 Lbs.... $25.00

Packed One in a Box

MARINO

Eight-Day; Half-Hour Strike

Dull Mahogany Finish; Beveled Glass Panels; Silver Finished Dial; High Grade Movement

Each

Marino—Height 20 in.; Width 11 in.; Weight 24 Lbs.... $24 00

Packed One in a Box

LEVER CLOCKS

For Engine Rooms, Vessels, Shops, Etc.

WOOD LEVER

Each

Wood Lever—8 in. White Dial; Brass Feet; Polished Veneer Case; 11 in. Diameter at Back.... $12 00

Weight, 5¼ Lbs. Each

Eight-Day Time; Second Hand; Winds and Regulates in Front; Will Stand Jarring, and Runs in Any Position

CANTON

Each

Canton—8 in. White Dial; Roman Figures; Nickel Plated Brass Case and Seat; 11½ in. Diameter at Back.... $12.00

Weight, 4 Lbs. Each

MANTEL CLOCKS

MAHOGANY FINISH

Eight Day; Patent Regulator; Hour Cathedral Gong; Half Hour Strike on Cup Bell
5 Inch Iveroid Dial; Convex Glass

BERLIN

Each

No. 124—Height 12¾ in.; Width 9 in. $6.50
Weight Each About 10½ Lbs.

BURGUNDY

Each

No. 1012—Height 10½ in.; Width 11 in. $6.50
Weight Each About 12 Lbs.

BELMONT

Each

No. 1200—Height 12 in.; Width 9 in. $6.50
Weight Each About 11¼ Lbs.

NOMAD

Each

No. 1503—Height 10 inches; Width 13¾ inches; Weight Each About 15½ Lbs. $8.00

Each

No. S1643—Height 10 in.; Width 19 in. $8.00
Weight Each About 14½ Lbs.

Each

No. S1641—Height 11 in.; Width 19 in. $8.00
Weight Each About 15½ Lbs.

CARRIAGE AND BUGGY LAMPS

THE NEVEROUT

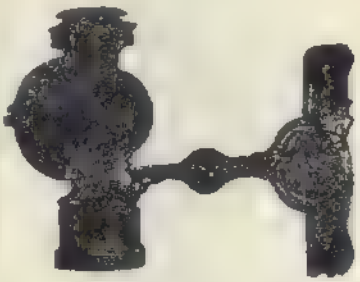
Made of Drawn Brass Heavy Gauge No Solder Used Parts are Either Riveted or Clinched Together. Guaranteed Not to Rattle Apart. Furnished in Full Brass Finish, Highly Polished Full Nickel Finish, Highly Polished, or Gun Metal Finish Patent Insulated Oil Reservoir Prevents Leakage of Oil Patent Draft System Has Side and Rear Red Signals

DASH

Burns Kerosene. Glass Covered White Nickel Reflector Red and Green Side Lights. Large Red Semaphore on Rear Height 6¼ Inches, Diameter of Front Lenses 2½ Inches, Diameter of Rear Red Semaphore, 2 Inches Nickel Plated or Gun Metal Made Right or Left.

	Each
No. 55S—Black or Nickel	$5.00

Each lamp is packed with one bracket, dash or bow. A bracket for wagon is furnished when desired.



Burns Kerosene. Neat and Efficient. Instantly Attached or Detached Without Tool of Any Kind. Patent Glass-Covered Reflectors. Patent Elbow Bracket Permits of Any Adjustment. Height, 6½ Ins. Weight, About 12¼ Ozs

Right Hand

	Each
No. 55NR—Full Nickel	8.00
No. 55GMR—Gun Metal	8.00

Left Hand

	Each
No. 55NL—Nickel Full	8.00
No. 55GML—Gun Metal	8.00

One in a cardboard box, complete with No. 111 Bracket. Weight, per dozen, about 20 lbs.

BRACKETS FOR NEVEROUT LAMPS

DASH

Has a Universal Clamp which can be Attached to Practically Any Projection on a Carriage or Wagon. Steel Bolts.

	Per Dozen
No. 46J—Japanned	$4.76
No. 46B—Bronze Plated	4.76

PANEL

Used Principally on Wagons, where it is Attached by Screws

	Per Dozen
No. 53J—Japanned	$3.50
No. 200	7.50

Loose.

RAIL

Fastens to the Horizontal Bow or Rail on Side of Top or Seat

	Per Dozen
No. 47J—Japanned	$4.76

If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

Type 510—Six Cylinder Limousine-Sedan

WITH the name FIAT the world connects a reputation for *Reliability*. For the same ability to connect the famous *FIAT Aviation Engines, Lorries* and *Machine Guns* in large numbers during the war is now being devoted to Peace Products of the *same calibre Passenger cars*, Trucks and also a powerful and well-finished agricultural tractor. The fame just acquired has assured the confidence and respect of the buying public. They know the FIAT'S reputation for a high-grade, dependable product of any kind. The sale is already half closed when you offer the elegant, beautifully performing FIAT.

Known for twenty years all over the world

Factories
Turin, Italy

FIAT

501 Fifth Ave.
New York

Agents' applications now being considered

Poetry of motion

Sedan
Victoria
Town Car
Limousine

SET your expectations high before you [illegible] it, because this surprising new Winton [illegible] no ordinary car. Neither is it a car with [illegible] motor that demonstrates well and then [illegible] the knack.

Its amazing performances are real and [illegible] They are the fruit of twelve years of devotion [illegible] one task of perfecting the famous Winton six-cylinder motor.

Year by year that motor has improved. Today it is superb, as if touched by magic. How smoothly it does its great work, and what a beautiful curve its power enlivens with the poetry of motion.

Charm—that's it. The Winton Six has it abundantly. May we send you literature?

The Winton Company

417 Berea Road, Cleveland, Ohio

Winton Oil Engines for belt drive, to be used in isolated power plants, and Winton Oil-Engine Generating Sets are manufactured by the Winton Company in a separate, splendidly equipped engine-building plant. Write us your needs.

Templar

The Superfine Small Car

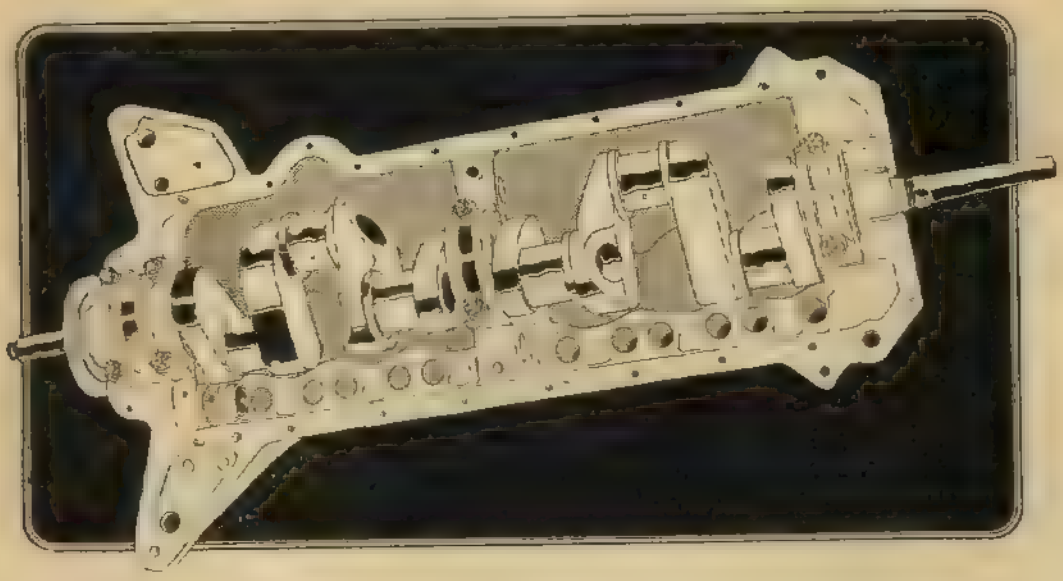
Templar Top Valve Motor

THOSE who have wanted a small light car combining the utmost in fine motor car construction with the obvious advantages of small size, will find this in the Templar Ease of handling and marvelous economy of up-keep and maintenance are inherent in the Templar.

Five Passenger Touring $2668
Two Passenger Touring Roadster $2685
Four Passenger Sportette $2685
Five Passenger Sedan . $3385

Price F. O. B. Cleveland

THE TEMPLAR MOTORS CORPORATION
3400 Halstead Street, Lakewood, Cleveland, Ohio
The Pioneer Builders of Quality Small Cars



An Extraordinary Crankshaft—
That of the New Marmon

IT is made of the same special alloy steel as the Liberty Motor crankshaft. Hence it has great inherent strength.

It is unusually large in size, the main bearings being 2¾ inches in diameter. A big factor for rigidity.

It is balanced in standing and running tests.

Extremely accurate is the fitting into the crank case. The bottom surface of the crank case is *lapped*. No variation in the surface. Hence all holes for placement of bearings can be bored absolutely true.

The accuracy of the fitting, the rigidity and balance of the crankshaft give a new freedom from vibration and a new meaning to smooth operation.

Pennant Awarded to Nordyke & Marmon Co., Nov 1, 1918, by U. S. Government, Bureau of Aircraft Production, for Oct. Competition. Permanently Awarded Nov. 16

The Iron Horse

THE SIEMON-McCLOSKEY Tractor is of the "two wheel, line drive" type; controlled by means of lines which permit the operator to ride upon the seat of the vehicle or implement to which it is attached.

Steering is accomplished by means of clutches in the jack shaft, one for either wheel. These clutches are of fabric, multiple disc type, running in oil, and while gentle in action, possess high efficiency and durability.

All moving parts are enclosed in dust-proof cases and run in oil, insuring long life with minimum attention.

In the "SIEMON-McCLOSKEY," we have overcome the criticism, "tractors do not last as does other machinery."

It will outwear any agricultural implement in use and with reasonable care its days of usefulness are unlimited, as every part subject to wear may be replaced at a reasonable cost. The motor is a special design, intended for tractor work only. Lightness has been sacrificed for sturdy, **rugged construction** and power. It is equipped with pressure oiling system and cooling effected by pump circulation.

Send for further particulars

Siemon Tractor Corp.
325 BRISBANE BUILDING
Buffalo, N.Y.

309-311 CONFEDERATION LIFE BUILDING
Toronto, Canada

New Hamburg, Ont.

The Iron Horse

THE SIEMON-McCLOSKEY Tractor Pulls 2-14 inch plows and any implement used on the farm or drawn by horses and is adapted for any size farm.

Has Full Standard Equipment

Motor built especially to suit our own efficiency requirements.

Get the impression that in every line of work the "IRON HORSE" is a one man tractor.

This Tractor Will Work in Any Soil

THE COST OF THE "IRON HORSE" IS WITHIN THE REACH OF ALL

We have just acquired a large plant at Buffalo, N. Y., containing over 120,000 square feet of floor space. This plant has a frontage of 170 feet on Chicago St. and 400 feet on Scott St. with railway sidings into the buildings.

Our Canadian plant has an assembling capacity of 10 tractors a day.

Send for further particulars

Siemon Tractor Corp.

325 BRISBANE BUILDING
Buffalo, N.Y.

309-311 CONFEDERATION LIFE BUILDING
Toronto, Canada

New Hamburg, Ont.

Arm MOTOR

Buyers Demand Facts

Hundreds of records kept on the performance of Armleder Motor Truck show by actual figures that an Armleder is lowest in gasoline consumption—lowest in tire cost—lowest in operating and maintenance cost.

These records are sent to Armleder dealers, who use them effectively in closing sales.

They constitute the most valuable sales ammunition that could be used, for nothing is more convincing than facts.

Testimonial letters, repeat orders and rapidly increasing sales give overwhelming evidence that Armleder Trucks fully meet the most exacting requirements of truck users.

The O. ARMLEDER Company

leder

TRUCKS

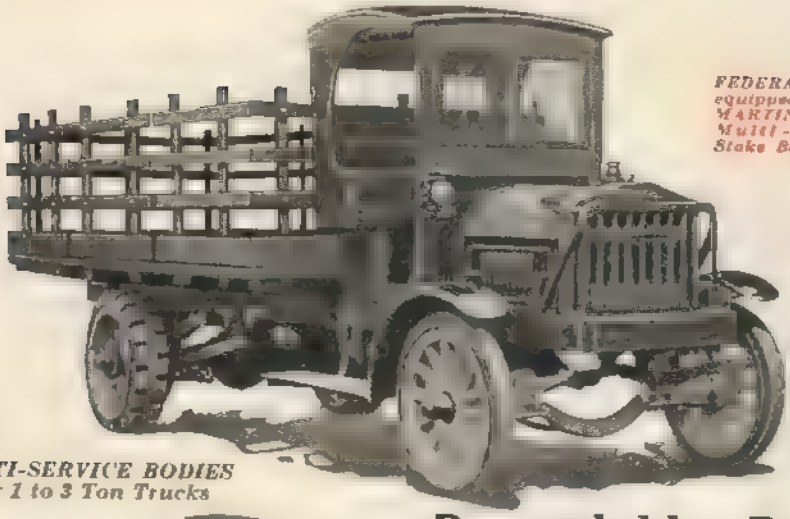
Armleder Dealers Supply Them

We can easily convince you that Armleder Trucks operate at a lower cost per mile than any others you may contemplate selling We can show you, as an intelligent Truck Dealer, how Armleders are mechanically perfect—but we can do more than this. We can arouse your enthusiasm in Armleder value and service to such an extent that you'll reach for the contract and close up your territory before another gets it; provided it is not closed at present.

Find out about this. Perhaps your territory is one of those still open. It s worth your while to find out Write for the Armleder Book of Evidence, containing "The Armleder Feature Letters and Folders."

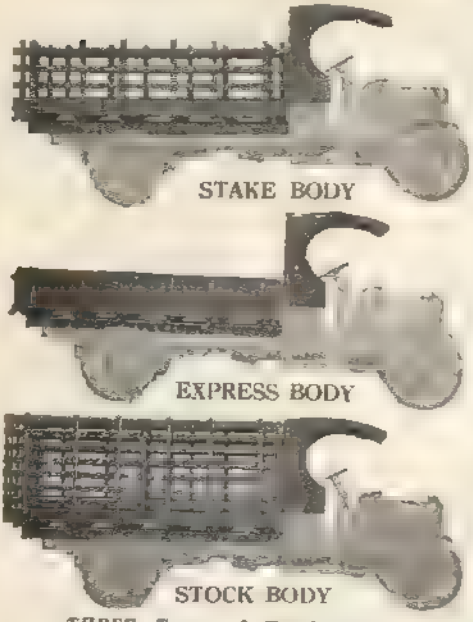
In justice to yourself, read these before you finally make your selection of a Motor Truck to sell in your locality.

Cincinnati, Ohio, U. S. A.



FEDERAL Truck equipped with a MARTIN-PARRY Multi-Service Stake Body.

MULTI-SERVICE BODIES for 1 to 3 Ton Trucks



THREE Types of Truck Bodies Interchangeable on ONE Platform

Dependable Bodies for Quality Trucks

MARTIN-PARRY Multi-Service Bodies have convincingly demonstrated their great utility and value in all kinds of motor truck service.

Their practical, standardized design, with its three-interchangeable-bodies feature—their sturdy dependable construction—their ability to stand long, hard use—have made them famous with truck dealers and users everywhere.

The dealer who sells Martin-Parry Bodies is backed by the largest and strongest commercial body-building organization in the world. The Martin-Parry line is *complete*—enabling the dealer to sell bodies in styles and sizes to meet every need of commercial car service.

Catalogs and specifications on request

Martin-Parry Corporation

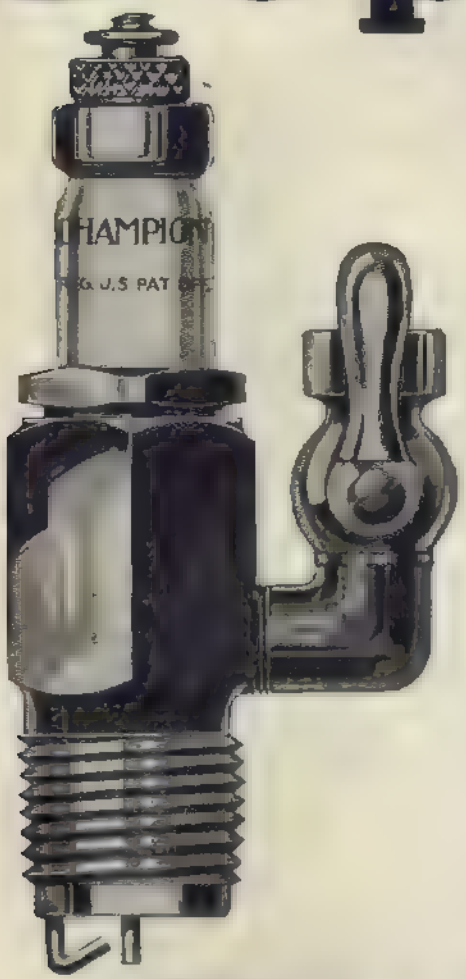
The Largest Commercial Body Builders in the World

Martin Plant—YORK, PENNA.
Parry Plant—INDIANAPOLIS, IND.

Martin-Parry

Commercial Bodies

Depend



Champion Dependable Priming Plugs

For cars not equipped with priming cups, Champion Dependable Priming Plugs are a necessity for cold weather starting. For other cars, having priming cups, they are a decided advantage, because ordinary priming cups deliver the gasoline too far from the spark plug.

Champion Dependable Priming Plugs deliver the gasoline directly to the sparking point, where the spark cannot fail to ignite it.

Get ready now to meet the heavy winter demand for these sure-fire spark plugs.

Price, $1.50

Champion Spark Plug Co.
Toledo

Cham

ability

For Buick and Chevrolet Cars

Special plugs have special uses. A plug is specially designed for a certain motor to give more durable and efficient service in that type of engine.

Champion ⅞-18 Long is the plug specially designed for the Buick and Chevrolet cars and is the most efficient and durable plug for them.

Specially fitted for these motors, this Champion plug has no substitute for its dependability. In recommending it to Buick and Chevrolet owners, dealers should make sure the name Champion is on box and Insulator.

Price, $1.00

Plug Company
Ohio

pion Dependable Spark Plugs

FERRIS

THAT the Ferris Motor Car satisfies civilization's ideals, in style and construction and in its perfect adaptation to the carefully sensed requirements of a discriminating motor car public—is conclusively proven by its instant acceptance by the motor world.

On exhibit in the lobby of the Hotel Astor, the Ferris was the outstanding feature of the New York Motor Show.

The Ferris Motor Car was built by a company that has been engaged in the automotive field for nearly seven years. True to the finest traditions of the business, into its production have gone the concentrated skill and experience of a matured organization.

The original quota for the first year's production was entirely sold and the Ferris dealer organization practically completed while the first model was being built. A recently increased production quota permits the extension of the dealer organization to cover the entire country. Further details will be sent on request.

The OHIO MOTOR
CLEVELAND, OHIO

FERRIS

NEW CARS AT THE SHOWS

(Continued from page 237a)

Lafayette Eight Makes Its Debut

New Car Designed by D. McCall White Shows Result of Aviation Engineering Experience

As might be expected by any one familiar with the previous work of its designer, the new Lafayette car, shown in New York and Chicago during Automobile Show Week in those cities, is a highly developed 8-cylinder type, embodying many of the lessons in aviation engineering learned during the war. There is nothing about the car which might be termed radical or freakish, however.

The engine is of the V type with bore and stroke of 3¼ in. x 5¼ in., respectively, giving a piston displacement of 348 cu. in. and an N. A. C. C. hp. rating of 33.8. The cylinders are cast in two blocks of four each with the intake and exhaust manifolds integral and with detachable heads. Both the crankshaft and the camshaft are of the five bearing type and drilled for lightness and also to provide oil passages for the force-feed lubrication system. The camshaft and the fanshaft above it are driven by a silent chain provided with simple adjustment.

The cooling is by the pump system, a single pump feeding each block of cylinders independently from a common intake. The cylinder jacket water inlets are located at the center of the cylinder block. The radiator is of cellular type, fitted with vertical shutters operated by vacuum and thermostatically controlled

The starting, lighting and ignition units are of Delco make, the ignition system being of the dual type with all wiring enclosed in metal conduits. The storage battery is an Exide. The carburetor is a special Lafayette design, feeding the gas through an exhaust jacketed intake manifold.

Lafayette Eight in Touring Car Form

Vertical radiator shutters add a distinctive note to the appearance of the new Lafayette car. Note that the head lamps are mounted on a cross tube so that they can both be adjusted to the same angle at all times.

A multiple disk type clutch, three speed forward and reverse selective type transmission, single universal joint inclosed in an oil tight torque ball casing at the rear of the transmission, tubular propeller shaft and full floating rear axle of special Lafayette design and fitted with large Timken bearings, are the important units in the driving mechanism. The rear axle driving gears are of the spiral bevel type. Brakes are

TRADE ASSOCIATION ACTIVITIES

On the third Friday of each month, dinners are served before the meeting, generally at 6.30 P. M. Thus, the members get very well acquainted around the table and this combined with two, three or four good speakers, along live subjects pertaining to accessory or the automobile business, brings out a goodly number.

The officers elected for 1920 are: President, W. H. Metcalf, of the Wire Wheel Corp. of America; vice-president, George L. Fischer, J. H. McCullough Sons; treasurer, N. A. Petry, of the N. A. Petry Co.; secretary, A. W. Stellwag, Jr., of the Metropolitan Auto Supply Co. The board of governors consists of four officers and seven directors, in conjunction with the chairman of each of the standing committees. The meeting of the board of governors is held each month and much of the business of the association is attended to by this body.

The directors elected for 1920 to serve two years are, as follows: Geo. B. Shearer, Jr., H. E. Allmang. The directors to serve one year are: W. T. Bosworth, T. S. Eavanson, C. B. Vogt, C. H. Walz and W. R Walton.

The chairmen of the committees appointed for this coming year are: Entertainment, Geo. L. Carroll; Reception, E. N. Waters; Speakers' Committee, M. H. Robertson; Membership, M. B. Nason; Publicity, D. F. Hopkins; Legal, R. J. Cahall; By-Laws, H. H. Fouse.

The financial condition of this association is in very good shape. Victory Loan Bonds, totaling $400, have been purchased, and the treasury report shows close to $1000. The address of the secretary, A. W. Stellwag, Jr., is 716 N. Broad St.

A. D. A. Deals Blow to Piracy

NEW YORK CITY, Dec. 30.—The tendency among unscrupulous dealers and garage men of New York City and its vicinity to use without license or authorization the names of well known cars in connection with various businesses pertaining to repairing, overhauling and giving service on motor cars has been on the increase. These individuals and companies have listed themselves in telephone directories, etc., in such fashion that they appear next to the real agents and service station companies and cannot be differentiated from them by those not familiar with the trade. The public is easily deceived into believing that they are the authorized service stations.

Some of these pirates have even gone so far as to insert advertisements in the directory on the page opposite each listing to indicate that said persons were duly authorized repair specialists of these cars. Others have gone still farther and have had their advertisement placed at the foot of the same page on which appeared that of the duly authorized agent.

The situation was growing more and more serious and through the efforts of Harry Gardner, executive secretary of the Automobile Dealers' Association, Inc., New York City, together with Saul Myers, senior counsel for all firms interested and attorney for the Hudson Motor Car Co. of New York, Inc., it has been permanently put to an end. Judge Greenbaum, of the Supreme Court of New York, has restrained these trade pirates from continuing such practices and from making any arrangements with the telephone company for any objectionable listings and advertisements and has also restrained the company from publishing all such listings.

The Philadelphia Shows Eclipsed Past Events

The consensus of opinion of the dealers who exhibited at the Philadelphia Shows is that this year's event has been the "greatest ever." In the total number of cars exhibited, it has been unsurpassed. The Passenger Car Show, held during January 10 to 17, brought out well over 50,000 visitors. All dealers report a large number of good prospects and many sales. There were 54 car exhibitors, 70 different makes of passenger cars exhibited, totalling approximately 250 cars in all. The floor space was 100,000 sq. ft. and the valuation of the exhibits was estimated at $1,000,000. There were 29 exhibits of accessories exhibitors, including jobbers, manufacturers and dealers.

The Passenger Car Show, the 19th Annual, and the Truck Show, as well, were held in the Commercial Museum Building, 34th below Spruce St., the Passenger Car Show being under the auspices of the Philadelphia Auto Trade Association, and the Truck Show under the auspices of this association in conjunction with the Motor Truck Association.

Here's a good suggestion for a card or letter insert to boost sales of locks—"Don't Walk Home. LOCK YOUR CAR."—Automobile Club of Maryland.

able or easier to handle has been included in the Ferris car. In addition to the usual list, such as the motor driven horn, tool kit and jack, speedometer, pressure gage, gasoline gage, ignition and lighting switch with lock and foot and robe rails, the equipment includes an 8-day clock, power driven air compressor for tire inflation, motometer, cigar lighter, wheel carrier and extra wheel, windshield cleaner, muffler cutout switch, front and rear bumpers built integral with the frame, rear vision mirror on the left front fender, and luggage carrier in the rear of the body.

Paige Light Six Has Own Make Engine

One of the sensations of the show was the new 6-42 Paige, shown at New York for the first time. Not even the Paige dealer had been given an inkling of what the new car was to be, so that it was a surprise all 'round.

The motor in the new Paige, designed and built by the Paige Co., has six cylinders 3⅛ x 5, cast in block and integral with the crankcase. The motor is of the L head type, and the cylinder heads, cast in one piece, are removable. The valves have cast iron heads, are mounted on the right side of the motor, and are 1 7-16 in. in the clear. The lower part of the crankcase is closed by a stamped steel oil pan.

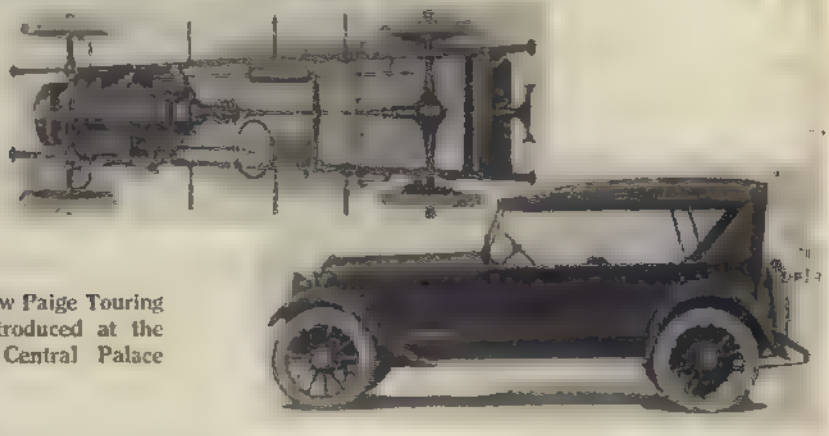
The crankshaft is 2⅛ in. in diam., with crank pins the same, and is supported by three bearings. The camshaft, also on three bearings, is 1 in. diam. between cams, and is driven by helical gears from the crankshaft.

Lubrication is by pressure feed to the main bearings, with splash to the rest. The oil pump, of the plunger type, is actuated by a cam off the camshaft at the center bearing. Oil capacity is 6 qt.

A one-inch Stromberg carburetor is used, Model MB-1, with hot stove. Stewart vacuum feed from a 17-gal. gas tank in the rear. A National Can Co. cellular radiator is used, the water circulation being maintained by centrifugal pump on right side of motor, driven from same shaft as ignition distributor and generator. This shaft is gear driven.

Atwater-Kent ignition is used, with automatic spark advance, and Gray & Davis starting and lighting system, with Willard storage battery.

At the Left is the New Paige 6-42 Sedan and Below at the Left is a Plan View of Chassis



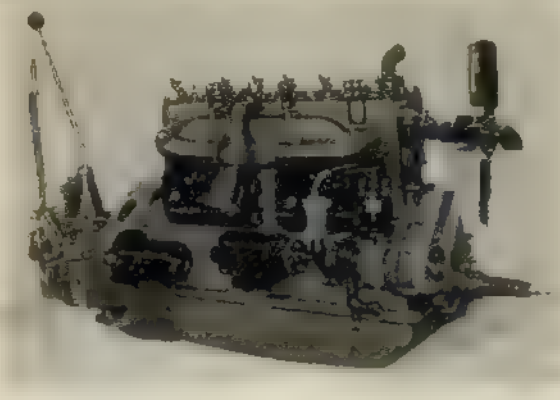
The New Paige Touring Car Introduced at the Grand Central Palace

NEW CARS AT THE SHOWS

The frame of the new chassis is of pressed steel, 6 in. deep, and the semi-elliptic springs are of exceptional length for a car of this size. The rear springs are 61¼ in. long and 2¼ in. wide, while the front springs are 38 x 2 in. The new chassis has 119 in. wheelbase. A Jacox steering gear is standard. Gits oil cups are used throughout.

The rear axle is Salisbury make, with drive from Detroit tubular shaft and universals. Brakes are 12 x 2 in. Wheels are of wood, with 32 x 4 in. Firestone tires as standard equipment.

Speedometer is a Stewart, driven from the transmission.



The Power Plant Used in the New Paige 6-42 Model is Made and Was Designed in the Paige Factory.

The new type will be built in the 5-pass. touring and sedan models, as exhibited at the show, and in the roadster and coupe models. Production of 20,000 is expected for 1920.

Westcott in Two-Tone Combinations

The new Westcott models manufactured by the Westcott Motor Car Co., Springfield, Ohio, and which were exhibited at the New York Show for the first time, are finished in a two-tone color combination which is a little unusual. A rather deep bevel extends along the sides of the body and is carried forward through the hood to the radiator. The upper face of the bevel and the top of the hood are finished in a lighter tone than the lower part of the body and hood. The same effect is carried out on the closed bodies also, in very much the same manner.

Some slight changes in the body and chassis design have been made in these cars also. As before, the Westcott is made in two sizes, the Lighter Six, with a wheelbase of 118 in., and the Larger Six, with 125 in. wheelbase. The two cars are very similar in appearance, specifications, equipment and in fact everything except size. In the new models the lower half of the windshield is stationary to eliminate leakage, and ventilation of the front compartment is provided by a cowl ventilator with dash control. The instrument board is very complete, including the combination lighting and ignition switch, speedometer, 8-day clock, ammeter, ventilator control, cigar lighter, spotlight plug, gasoline gage showing the quantity of fuel in the rear tank, flashlight, oil gage and radimeter.

The latter device, which appears on the 1920 Westcott for the first time, registers on the dash the heat of the cylinder water jacket at the outlet or hottest point.

A thermostat is used in the cooling system, but the radimeter shows the engine temperature at all times regardless of the condition of the thermostatic control. Both Westcott models have Continental engines, the larger car using the 9-N type and the smaller model the 7-R.

There has been practically no change in the past five or six years in the list of parts used in Westcott cars. Timken front and rear axles are standard. The starting, lighting and ignition units are of Delco make, the ignition having automatic spark advance as well as hand control. The clutch is a Borg & Beck; the transmission a Brown-Lipe and the drive by tubular propeller shafts on the Hotchkiss principle. Wood wheels are standard equipment, but wire or Disteel wheels may be had as optional equipment at extra cost.

FARM TRACTORS

Rex 12-25 Tractor

A FEATURE of the Rex 12-25 Tractor, being produced by the Leader Tractor Mfg. Co., Des Moines, Ia., is the Model RU-4 Waukesha engine, which is a four-cylinder and is set crosswise in the frame. The clutch on this tractor is a Bierman expanding-band clutch, made by the Foote-Strite Pulley Co. The transmission is sliding gear and has two speeds forward and one reverse and is made by the Leader company.

An Eisemann high-tension magneto is used. Kerosene fuel is fed by gravity from compartment tank, holding 20 gal. of kerosene and 5 gal. of gasoline, the latter for starting. The fuel tank is located lengthwise directly above the transmission case. The intake air is drawn through a Bennett dry air cleaner. The carburetor is a 1¼-in. Kingston.

Rex Tractor From the Front

This illustration shows the front axle design, belt pulley clearance and the pulley position on the Rex Tractor which is a 12-25 and has the engine set transversely.

The final drive is by open master pinion and gear. The front axle is a built up Elliott type and is clearly shown in the accompanying illustration

The Kingston single bowl carburetor and an exhaust-heated intake manifold is stated to provide means for adapting kerosene as the fuel on this machine. The tractor itself is 147 in. long, 78 in. wide, 68 in. high and three-quarters of the weight of the machine is on the rear drive wheels. The wheelbase is 94 in. Normal drawbar pull is 2400 lb. and the tractor will pull three 14-in. plows.

The engine is 4¼ x 5¾ in. The frame is strong and well braced and has 7-in. cross members. The engine flywheel is at the left, pinion and starting crank at the right and spark and magneto in front. This provides accessibility.

Cooling is by a Perfex radiator of standard design, mounted lengthwise on blocks of wood. The Oakes 18-in. fan is mounted on a steel bracket on the right of the radiator and draws the air through. It is inclosed in a suitable fan shroud. Circulation of the cooling water is by a centrifugal pump. The temperature of the cooling water is regulated by a Sylphon thermostat.

The seven transmission shaft bearings are the S. K. F. The transmission gears of special alloy steel are heat treated, according to specifications. They are entirely inclosed and run in oil. The gearing is such that the low or plowing speed is 2½ m.p.h., while the high or road speed is 4 m.p.h. The rear wheels have round spokes.

They are 60 in. diam., with 10-in. rims. They are regularly equipped with angle iron lugs of standard design.

The front wheels are of the same general construction as the rear wheels, except that they are equipped with mud bands and are 46 in. diam. with 4-in. wide rims. The front wheels have plain bearings.

The steering gear on the Rex tractor is unique and interesting. The steering rod passes diagonally down from the steering wheels on the left side. It is connected to the horizontal steering bar through a universal joint. The steering bar terminates in a steering worm, which meshes directly in a rack. The worm and rack unit are mounted on the left frame member at a point below the radiator. From the rear end of the track casting there extends a drag link which connects to the left steering knuckle arm. The cross-connecting or tie-rod which connects the right and left steering knuckles so that the front wheels will turn alike, passes across in front.

The drawbar on the Rex is pivoted to swing from side to side and is 20 in. above the ground. However, as the design of the tractor is such that the drive wheel runs in the furrow this lowers the drawbar at least 2 in.

Kinkade Model D Tractor

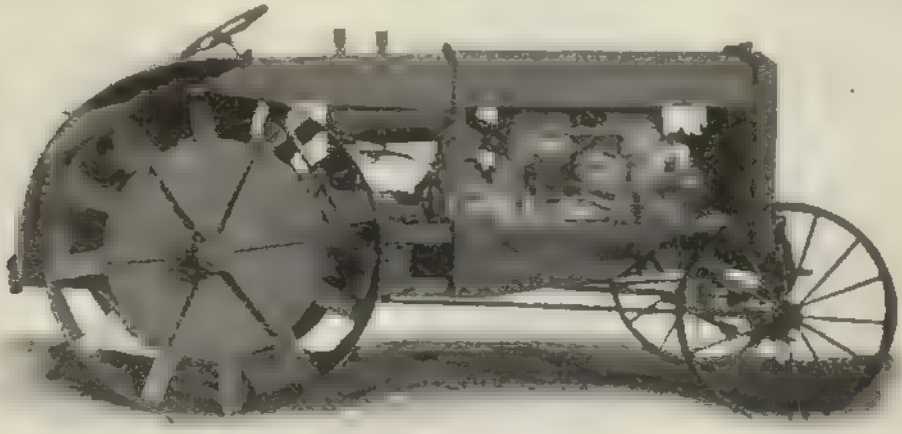
A TRACTOR recently introduced in the field is the Kinkade Model D. It is made by the Andrews Heating Co., of Minneapolis, Minn. This new tractor is a four wheeler, power being applied to the two rear wheels. The engine, a four-cylinder Climax, 5 x 6½ in., is placed longitudinally in the chassis frame. The frame is of unusual construction, as can be seen from the accompanying illustration.

The Climax engine is suspended in four brackets secured to the frame. The magneto, water pump and governor are on the same shaft on the right side of the engine. The shaft is driven off the crankshaft through spur gears.

Cooling is provided by a Spirex radiator. The engine power is transmitted to the speed-change gears through a seven-plate dry-disk clutch. The transmission is the progressive sliding-gear type of the company's own make. The forward speeds provided are 2½ and 3¼ miles an hour.

There is a large cast housing in which the final-drive bull gear is cast integral. This housing forms the hub of the rear wheel. The spokes are very short and are bolted to bosses around the periphery of the combination gear-housing and wheel-hub.

The tractor frame is of unusual construction. It is a type of trestle construction and is made of angle iron. Its construction is shown in the side view of the tractor. This frame, and consequently the entire tractor, is suspended on three points and cushioned against shocks by a semi-elliptic spring in front. This spring is attached to the frame through a swivel con-



Right Side of the New Kinkade Tractor

This tractor has a 20-40 rating, has a Climax engine, 5 x 6½ in., and parts are well protected against dirt. It weighs about 5000 lb.

Protect Your Trucks from *Destructive Vibration*

JAXON
FULL FLOATING WHEELS

absorb road shock and vibration. They do so through the six resilient cushions which are right within the wheels themselves. This eliminates the most costly item in truck operation, together with the larger share of the truck dealers' "trouble" with customers.

You protect your trucks from wear and tear and build up your customers' good will when you recommend JAXON Full Floating Wheels.

JAXON STEEL PRODUCTS COMPANY
3008 WEST GRAND BOULEVARD
Department B-4
DETROIT, MICHIGAN

REDUCE MOTOR TRUCK OPERATING COSTS

with

JAXON

FULL FLOATING WHEELS

MICHELIN
DISC WHEELS

MICHELIN

DISC WHEELS

the
WHEELS
OF
PROGRESS

Eight Reasons *Why* They Are Superior

1. They add distinction to every car—large or small—in perfect keeping with modern stream line design.
2. They are lighter than wood or other wheels. No heavy demountable rim, extra felloe or double hub.
3. Their strength protects against injury in skidding accidents or collisions. Michelin wheels never break.
4. They are easier to clean and they stay clean longer. Nothing to collect dirt. They hide the car's unsightly underbody.
5. They are simplicity itself. Nothing to get loose or out of order; nothing to squeak, dry-up or break.
6. They save tires by radiating heat. The 34x4 wheel, for example, has over 1100 square inches of radiating surface.
7. They make tire changing easier. Loosen the four or six lock-nuts, and slip the entire wheel off—that is all.
8. They help the sale of a car, giving it that up-to-date appearance which is so much sought after these days.

SPECIFY THEM AS FACTORY EQUIPMENT ON YOUR CARS

BUDD WHEEL CORPORATION

Economical Quantity and Quality
Production Rules in the Budd Plant

I

that end

be offered to the public.

scientific construction.

BUDD WHEEL CORPORATION
Philadelphia

ANNOUNCING A TRUCK
THAT HAULS MORE AT HIGHER SPEED

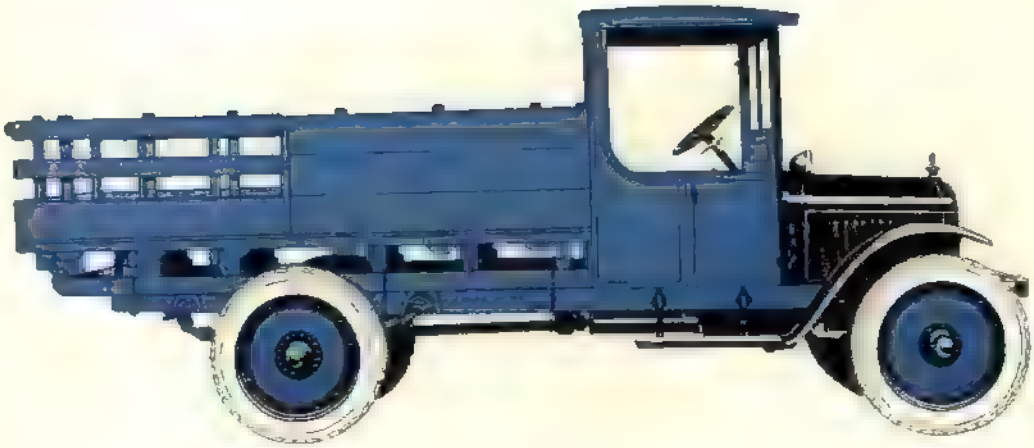
Contact with thousands of truck users has shown us two definite tendencies in the selection of motor truck equipment.

A turn from "light delivery" to trucks of real truck capacity.

The acceptance of truck cord pneumatic tires as ultimate truck economy.

From its inception Graham Brothers Speed Truck has been designed and built to carry a full ton-and-a-half load safely and efficiently at twenty-two miles an hour.

GRAHAM BROTHERS
SPEED TRUCK



Graham Brothers Speed Truck carries one and a half tons, the scientific load for all average hauling.

The engine has four cylinders, $3\frac{3}{4} \times 5$, cast enblock. The three-point flexible spring suspension eliminates strains on the crankcase.

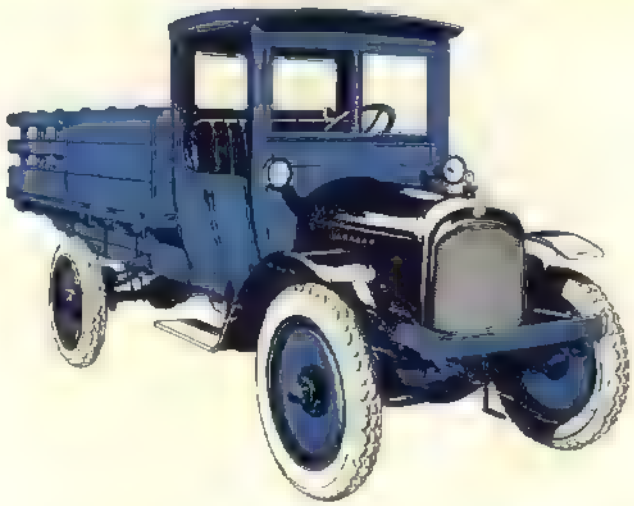
The radiator is of the removable core type, incased in a pressed steel shell, and mounted on flexible springs. Thermo-syphon cooling system.

The ignition and lighting are supplied by a high tension magneto-generator set.

An improved carburetor is used, equipped with superheated air device.

The transmission in this unit power plant is built with over-size gears. Multiple plate dry-disc clutch.

The drive is through a two-piece, three universal-joint propeller shaft, supported in the center on a self-aligning bearing.



An internal-gear type rear axle furnishes the final drive. Both front and rear axles are equipped with taper roller bearings.

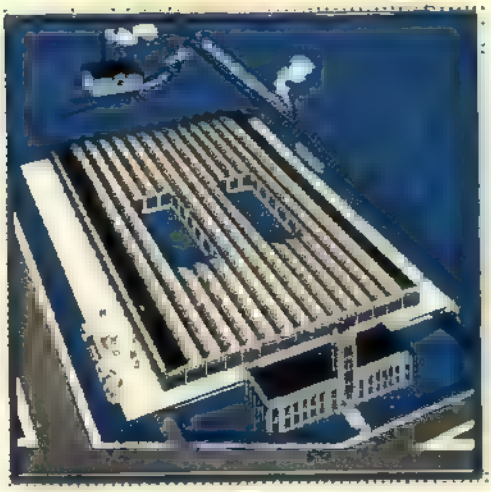
The springs are over-size and of unusual flexibility. Large spring bolts, in bronze bushings.

The Disteel wheels are mounted with truck-cord pneumatic tires, 36 x 6 rear and 35 x 5 front.

Control and steering are arranged for passenger-car ease of operation.

The equipment includes electric head and tail lamps, electric horn, electric storage battery, engine driven tire pump, odometer, speed governor, motometer and set of good tools and jack.

A complete line of body and cab equipment, all built by Graham Brothers, covers practically all hauling requirements.



First the motor truck was thought of only as a load-carrying giant, slow-gaited, solid tired and extremely heavy.

Then came the pneumatic tired commercial car, light and fast, but of very limited capacity.

But in the ultimate truck, the elements of strength and speed must be combined.

Not by merely equipping the heavy truck with pneumatic tires.

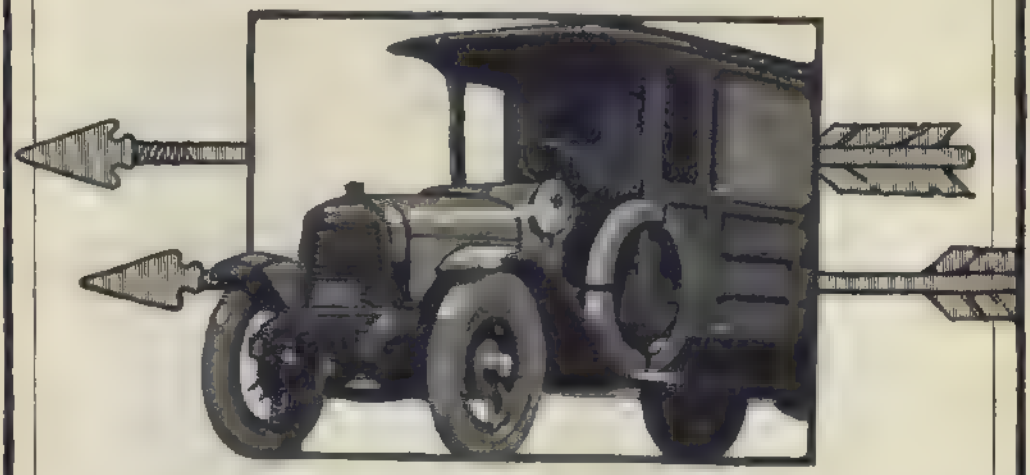
Not by just strengthening the load-carrying parts of the light delivery car.

Every product, every part, that goes into Graham Brothers Speed Truck has been selected or built to economically haul more at higher speed.

GRAHAM BROTHERS

EVANSVILLE, INDIANA, U.S.A.

Swift & Sure!



3/4 ton BETHLEHEM DEPENDABLE DELIVERY

The Fastest Selling Truck in the Biggest Truck Market

This newest Bethlehem Truck completes a line which covers the Truck Market most profitably. It adds to a Bethlehem Dealer's List of Prospects every butcher, baker, grocer, farmer or dry goods store. Anyone who has anything to deliver swiftly and surely is a logical buyer of a ¾ ton Bethlehem.

$1495 Chassis

Someone in your territory is going to dominate the motor truck selling field. Someone is going to put the business building forces behind the Bethlehem Franchise to work. Someone is going to represent Bethlehem. Are you the man?

¾ Ton Chassis **2½ Ton Chassis**
1½ Ton Chassis **3½ Ton Chassis**

Bethlehem Motors Corporation
Allentown, Pennsylvania

Converting Scrap Parts Into Useful Tools

BY converting scrap parts into useful tools, you can make them worth considerably more to you than the price they would bring if sold for junk. The illustration shows an old drive shaft made into a combination turning bar and fan pulley remover. The first part of this tool is made by bending the shaft at right angles near the universal joint end. This tool may be used as shown in the illustration for cranking an engine or turning it over through the transmission before the starting crank has been put into place. The yoke, or second part of this tool, is made by splitting the rear end with a hack saw while cold, or with a cold chisel when hot, and then spreading. This yoke is

Fig. 1. Several Useful Tools Can be Made From Scrap Driveshafts

very convenient for trying the end play of the crankshaft. Pry out the shaft with the yoke as shown and then force it back. This will give a fair idea of the amount of end play. When the starting crank and pin are removed the yoke may be used to force the pulley off shaft, by inserting behind pulley.

Another scrap drive shaft may also be made into a tool for use as a lifting bar, as shown in the cut. This is done by cutting it off about 16 inches from the universal joint end of the shaft. When the square end is inserted in the end of the transmission, this tool provides a purchase for lifting the engine from the crankcase, floor or bench.

Scrap front radius rods may be used to good advantage in making stock racks and horses for use in the stock room and repair shop. The illustration shows a rack that may be made to carry a stock of front radius rods. It is made of two old front radius rods, connected with two sections of running board truss rod and a 1-in. pipe. The pipe is bolted between the two ball ends of the radius rods by means of a section of truss rod running through the ball ends. Two fan pulley pins are driven in holes drilled near the end of the pipe. These pins

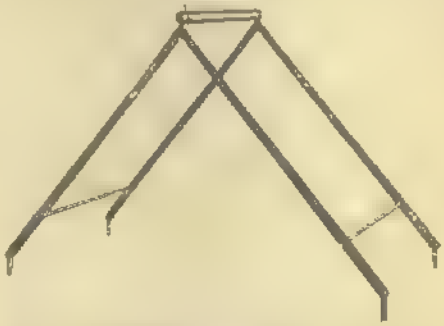


Fig. 2. Storage Rack for Front Radius Rods

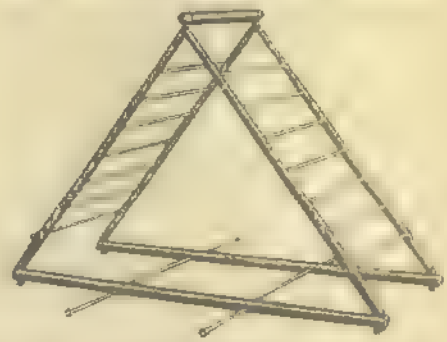


Fig. 3. Rack for Holding Spring Leaves

stick up so that the radius rods placed on the rack will not fall off.

Another illustration shows a rack on which to stock spring leaves. It is constructed with two front radius rods, a section of 1-in. pipe for the top, and two 40-in. sections of 1-in. pipe for the base. Sections of running board truss rod are used for bars. There are seven bars on each side, two longer bars at the base, and a section of truss rod holds the ball ends of the radius rods to the pipe. The shortest front spring leaves are laid on the two top bars, while the longest front spring leaves are carried by the two lowest

bars. Camshafts can also be placed on the two long bars at the base

The "horse" shown in the next illustration is constructed of two front radius rods, sections of running board truss rod, one steering gear connecting rod, and a piece of 1-in. pipe. The ends of the radius rods are

Fig. 4. Car Support or Horse Made From Scrap Parts

cut off, and ⅝-in. holes are drilled through the ball ends and through the rods, at about eight inches from the ball end Sections of spindle connecting rod are installed between the side members of the rods by using the sections of truss rods. The ball ends of the radius rods are bolted to the pipe by a truss rod section. The steering gear connection rod is cut in half, and the ball ends are ground so that they fit the ½-in. gas pipe connecting the side members of the radius rod. The other ends of the steering gear connecting rod are riveted to the 1 in. pipe These horses are used for supporting the weight of the car while a man is working on it, and for miscellaneous purposes.

Radius Rod Support Made by Dow Wire & Iron Works

The accompanying illustration shows the Perfection Radius Rod Support, made by the Dow Wire & Iron Works, Inc., Louisville, Ky. This device is for strengthening the

Perfection Radius Rod Support

This is a quickly attached radius rod support made of steel angle. The price is $2 50

Ford car and to keep the front axle in perfect alignment all of the time. It is claimed to reduce wear on the bushings and bearings of the front assembly and insure safe steering. It is made of 1 x 1 x ⅛-in. steel angle and equipped with this concern's twin hook bolt. This feature grips the radius rod firmly at the crotch and will not allow it to become loose or rattle. The price is $2 50.

An Adjustable Radius Rod

The purpose of the Adjustable Torque Radius Rods is to give perfect steering control, which is an assurance of safety. It also eliminates the original Ford Radius Rod

The Adjustable Torque Radius Rod is made of malleable castings and is designed with a ball and socket, held in position with heavy duty springs to absorb the shock. The ball socket makes it flexible so that it does not interfere with the spring action. The front end of the Adjustable Torque Radius Rod is bolted to the axle with ⅝ x 3¾-in bolts through the hole in the spring perch to which the original Ford radius rod was

Adjustable Torque Radius for Ford Passenger Cars and Trucks

This device is manufactured for [illegible] an assurance [illegible] strain off the [illegible] on the frame

bolted. It also extends to the bottom of the axle and has a hole drilled in it to fit the bottom of the spring perch. The spring perch nut is removed and after the radius is set in place the nut is put back on and tightened. This assures a firm hold on the axle and will not permit any lost motion.

The rear end is made to fit flat and snug against the side and bottom of the frame and has two holes on the side and two on the bottom so it can be bolted rigidly to the frame.

Another important feature is that it removes the strain, jar and vibration from the crankcase and reduces the chances of cracked crankcases, broken crankcase arms, oil leaks, etc., which mean a longer life to the engine and greatly reduces the cost of maintenance.

There is only one place in the Adjustable Torque Radius Rods that needs lubrication

and that is the ball socket, which requires a few drops of oil occasionally.

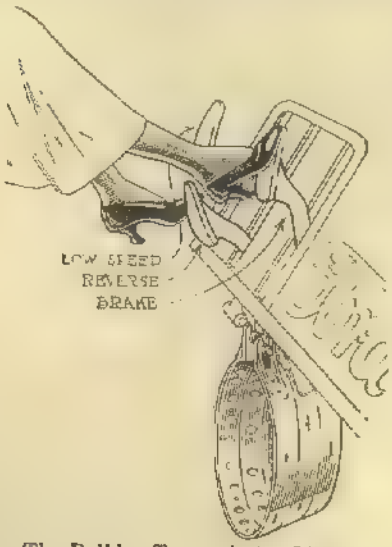
It is manufactured by the Hudford Co., of 1446 Wabash Ave., Chicago The price is $18 per pair.

Manifold and Vacuum Cup Transmission Band Lining

The Reardon Co., Inc., Peoria, Ill., is marketing the Bull Dog brand of Manifold and Transmission Lining for Ford cars. The latter product is made of chemically treated

The Reardon Bulldog Manifold

The intake manifold is completely enveloped by the exhaust, thus super-heating the mixture and giving a dry gas before entering the engine.



The Bulldog Transmission Liner

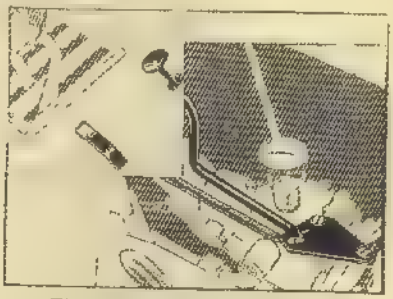
These reliners are made of a chemically treated wood and have 21 vacuum cups running in oil.

wood with 21 vacuum cups. The feature is that they will give exceptionally long service. These linings are sold at $3 per set of three complete.

The manifold is so constructed that the exhaust envelops the intake portion. Thus a dry mixture passes to the engine, which is stated to give a greater mileage and improve the engine operation. In the center of the manifold is a priming valve to assist starting. This device enables the use of a lower grade fuel. It sells at $10 complete.

Accelerator for Ford Cars

A new accelerator that is easy to install and simply designed, is being made by the C. H. Rice Co., Cherokee, Ia. The price of this accelerator is $1 50. It is made to be placed at the right of the brake pedal and



The Sense Foot Accelerator

This illustration shows the location of the foot accelerator and foot rest. The top is unscrewed to remove the floor board.

so located that it will not be depressed accidentally when applying the brakes. It has one working joint where the main push rod couples through the plate, which is attached to the carburetor. The maker states this accelerator operates easily and will not pull the hand throttle closed, due to the fact that a light coil spring is used

Automatic Rocker Dump Body for the Ford Truck

A new Automatic Rocker Dump Body for the Ford truck has been brought out by the Anthony Co., Inc., Streator, Ill. The two big features of this body are that it will automatically dump upon being released and return again requiring no power, and moreover, it is very easily attached. A slight pressure on the lever at the center of the driver's seat releases the loaded body, which tips to a 50 deg. angle. When empty the body will return to a horizontal position. This body is made in one and one-and-a half yard capacities and is of steel and malleable iron.

The opening of the tail gate is automatic in that, when the body has assumed a 50

FORD SECTION

deg. angle, it is unlatched by the lever, pressing upon the rear tire. The relatching of the tail gate is accomplished from the driver's seat by a lever at the left front body corner. Loads can be dumped without stopping the truck. The load in this body is carried well forward of the rear axle

This new dumping body will fit the Ford truck frame without any alterations. The rocking cams provide the automatic action, these operating in the inverted "V"-shaped racks fastened to the chassis by bolts which pass through the standard holes in the rear member of the chassis frame. The front end of the racks are carried upon brackets attached to the chassis frame by four "U" bolts. The front support is a malleable iron shaped "A" frame resting upon the chassis back of the driver's seat and secured by "U" bolts

The Anthony Dumping Body

This is an automatic dumping and return body which requires no power and is easily attached. It is made in 1 and 1½ yard capacity

the extension shaft in position, the timer fitting on top of the device. The bevel gear of the extension fits the other bevel gear, which is installed where the timer was located

Stay-Clean Timer Outfit

This is a device to raise the wires and timer away from a point where they might become saturated with oil and water, thus causing short circuit

A Device to Elevate the Timer of the Ford Car

A new device, known as the "Stay Clean" Timer, the purpose of which is to raise the timer and wires up from where they might become saturated with oil or water, has been brought out by the Milwaukee Air Power Pump Co., 886 Third St., Milwaukee, Wis. The price of this device is $6.

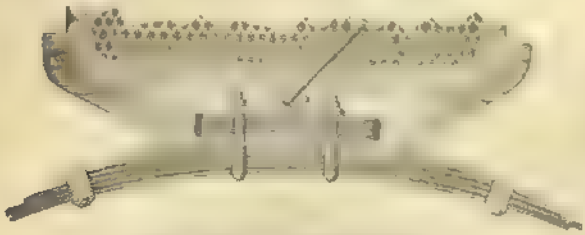
The timer extension body is cast iron and the shaft is cold rolled shafting. The mitre gears are phosphor bronze. The other parts used in the timing system are the standard parts of the Ford car. With a device of this sort, the timer is raised up where it can be cleaned easily and inspected as well and any misfiring from this source can be readily gotten to and cured. In installing, it is necessary to remove the timer and place

Lubricator and Spring Support for the Ford Front

A new device to strengthen and lubricate the front springs of the Ford car has been brought out by the Boel Mfg Co., Plymouth Bldg., Minneapolis, Minn. This device forms a spring support. It is curved to the same degree that a new spring is and this spring support is thin in the center and increases in thickness from the center to both ends where it is 1¼ in. thick. This device is so shaped at the upper edge that it makes a perfect fit under the channel and on the spring. It is also curved out so as to fit on the bolt end that goes through the center of the spring. The maker states this construction takes the weight from the center of the spring and distributes it to two points of suspension at each end of the steel spring

FORD SECTION

support. With this device is furnished two extra long drop-forged steel clips to allow for the additional thickness of the spring support and a license bracket. The spring support is so spaced on the bottom, on each side, to provide a chamber for oil waste to lubricate the spring leaves. The price of this device is $2 50



The Wilber Spring Support

This illustration shows this spring support in position on the Ford car. This device provides lubrication of the springs and makes the car ride easier.

New Lock for Ford Cars

The Masters new lock for the Ford car, which locks the gears in the steering apparatus at the top of the steering columns, is being produced by the Masters Mfg. Co., 67 Woolsey Sq., Jamaica Plain, Boston, Mass. It sells at $7 50.

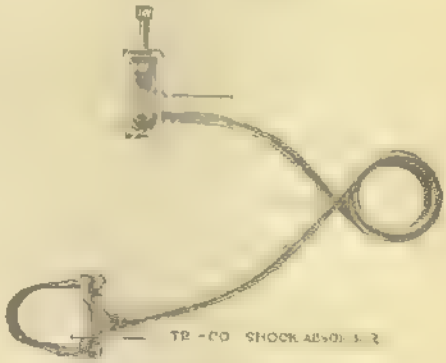
This lock accomplishes its purpose by three locking wedges or bolts which, in rising, intermesh with the internal gear and hold it so that the front wheels cannot be turned. The accompanying illustration shows the construction. The lock is a cylinder Yale. The lock is made of bronze and steel and is very sturdily constructed, because the bolts must rise before meshing with the internal gear and a spring is used to keep the locking bolts below the internal gear except when raised by the key. There is no danger of its locking while the car is being operated.

Master "Steal-Proof" Lock

This device locks the internal gear in the steering column by three wedges or bolts, so that the front wheels cannot be turned.

Bayne Bolt Tightener for Fords

A new device has been placed on the market to retain the proper tension on the Ford fan belt. It is known as the "BB" Belt Tightener and is manufactured by the Bayne Mfg. Co., Bushnell, Ill. It is made of two pieces of flat spring steel with a hook bolt and a wing nut. The springs retain the proper tension on the fan belt, which tension is adjustable by the wing nut. The price of this device is $.



The Tri-Co Shock Absorber

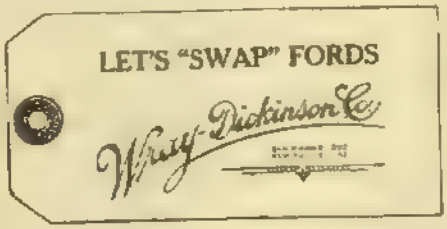
The Tri-Co Shock Absorber, illustrated herewith is made by the Tri-Continental Corp., Buffalo, N. Y., and is designed for use on the Ford car and truck. The upper end attaches to the frame of the car and the lower clip is a friction fit to the rear housing and front axle. The maker states that this shock absorber prevents quick up throw and down throw of the car and eliminates much of the lateral action, preventing side sway. The price complete for set of four is $15.

Just at present cars practically sell themselves. But that condition won't last forever. Now is the time to build up your selling organization, so that you can continue to SELL cars when the supply exceeds the demand. Read "Car Sales Policies That Pay" in the March Merchandising Number. You may get some valuable pointers from it.

FORD SECTION

Here's a Way to "Swap" Fords

George D. Wray, president of the Wray-Dickenson Co., of Shreveport, La., believes in trading in just as many Fords as he can, for each one means a new Ford going out, and there is good money in rebuilt Ford cars these days. He makes his profit on the new car, and on the old as well. Incidentally Mr. Wray has one of the handsomest and most successful Ford dealers' plants in the United States, so his plan of trade-ins



must be worth while. One of his best methods of getting Ford owners to bring their cars to his place of business to trade in consists of sending a man out every Saturday or holiday, or whenever there is an unusual crowd in the city, supplied with tags like the illustration herewith. These tags are in green or red, and have a bit of soft wire run through the eyelet. A tag is quickly wired to the steering wheel of every Ford along the various curbs, and when each owner returns he finds the suggestion to "swap" his car right where he can't overlook it.

Mr. Wray says the plan has proved very successful this past year, and that many owners who hadn't hitherto considered the matter seriously unconsciously let the suggestion on the tag do the business, and eventually brought their cars in to see what they could do in the way of a trade, usually to find that they departed with a new car.

All traded in Fords in the Wray-Dickenson shops are thoroughly overhauled and rebuilt before being resold, so that a customer getting a second-hand car is assured of getting his full money's worth. Every item of labor and material is charged against the car, so that the selling price is made big enough to leave a profit on the transaction

The Wray-Dickenson plant is departmentized throughout, and so jealous are the various department employees that their particular department shall pay a profit each month, that they keep a very sharp lookout to see that the no charge is made against them that is not justified. This tends to make certain the proper charges against every department, so that costs are easily figured and profit or loss may be determined successfully.

"The reason many a department doesn't show profits will be found in the improper charges that are made against that department where a strict watch is not kept on employees," says Mr. Wray. "If you can build up department spirit and loyalty in your organization you will have little trouble in arriving at accurate cost figures on the various jobs going through the shops, for the employees of each department will see to it that no charge is slipped over on them by any other department. I have watched it in my own organization and find that the various departmental employees are on the lookout all the time for that sort of thing They won't stand for it."

The Emco Grease Retainers Installed

The accompanying illustration shows the Grease Retainers manufactured by the Emco Mfg. Co., Inc., Binghamton, N. Y., for the rear axles of Ford cars. The purpose of this device is to keep the brakes free from oil and to prevent waste of lubricant and damage to the tire through oil. They are installed by removing the rear wheel and bearing and slipping them into place. They consist of centrifugal coil springs which direct the oil to the center of the axle. The price is $ 50 a pair.

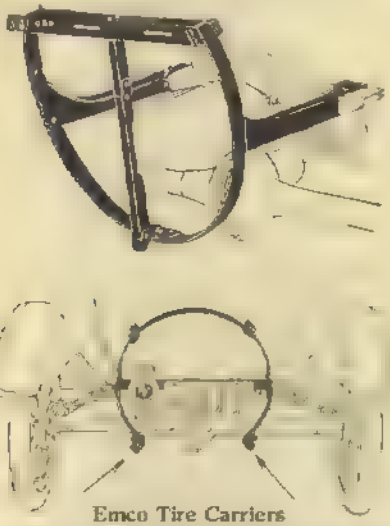
One of the Smith Electric Adaptors for Ford Oil Lamps

The product illustrated herewith is made by the F. A. Smith Mfg. Co., Inc., Rochester, N. Y. It can be snapped in the front flange of the rear light and provides electric tail light service in place of the oil. There are two bulbs, one for operating from the magneto, an 18-volt, and the other is a 1.5-volt for dry cell operation when the engine is silent. The price complete with bulb and wire is $1 75; with the bulb and wire, the price is $.55.

FORD SECTION

Emco Tire Carriers for Fords and Chevrolets

Two types of tire carriers are being turned out by the Emco Mfg. Co., Inc., Binghamton, N. Y. These tire carriers are adaptable for Ford and Chevrolet cars, three types for the Ford car and two for the Chevrolet. The Ford type for two clincher tires, one 30 x 3-in. and one 30 x 3½-in., sells at $6. The Ford type for one demountable rim sells for $5.50 and the Ford type for two demountable rims sells at $6. The Chevrolet type for one demountable rim sells at $5.50 and for two rims $6. The feature of the clincher tire carrier for the Ford car is the ease with which the tire can be removed by simply lifting it upward and compressing the carrier ring, the tire can be slipped forward and free from the carrier.



Emco Tire Carriers

Two styles are made, these being shown herewith. The upper is the Ford clincher tire carrier and the lower one is the demountable type

The demountable type feature is the toggle locking device. The toggle arm is easily operated and when pushed forward the tire will swing toward you from the bottom and then can be easily lifted from the carrier. The toggle joint can then be pulled back into position by hand and locked

Display for Staybestos Transmission Lining

The new attractive dealer's display rack for the Universal assortment of lining being offered to the dealer and garagemen by Staybestos Mfg. Co., of Philadelphia, is shown herewith. This dealer's help displays, in an inviting way, the Universal transmission lining, which is sold complete in proper lengths for Ford transmission bands, together with rivets. This display stand is 11 in. high and the lower part holds a box of lining. It measures approximately 7 in. in width and 6 in. in depth. It is furnished the dealer with each carton of 12 Universal packages. The design is handsomely finished in black and orange

Ford Reamer Sets

The accompanying illustration shows the Ford Service Set No. 1, produced by the Keystone Reamer & Tool Co., Millersburg, Pa. The price is $160. It is a combination set of hand and expansion reamers, especially made up for taking care of the various bushing needs on the Ford car. The set is packed in a hardwood chest and equipped with a lock and key.

FORD SECTION

Care of Ford Fan Belt

Engineers, in designing the fan on the Model T Ford motor, calculated to have the fan draw a certain amount of air through the radiator. Naturally, as the speed of the engine increases, it is necessary to have more air to keep the radiator cool, and this is done automatically by the fan assembly. The proper working of the fan at any engine speed, and hence, the suction of the required amount of air, is solely dependent on the fan belt. It is accordingly important that the fan belt be kept in good working order.

When installing the fan belt, the pulleys should first be lined up carefully with a straight edge, across the sides of both pulleys. Then loosen the fan bracket allowing the fan to drop to its lowest position and put the belt over the fan and around the fan pulley, work the belt around the crankshaft pulley with the hands; never use sharp tools for this purpose. Next, raise the fan until it is fairly tight. When the belt is in proper adjustment, one should be able to turn the fan but not spin it by pressing on the blades with the fingers. With the belt adjusted to the proper tension, securely fasten the nut on the fan bracket bolt. If the belt is too tight, it will have a tendency to draw one of the pulleys out of line, causing the belt to fray at the edge. In fact, a belt with a frayed edge indicates that one of the pulleys over which the fan belt runs, is out of line. If this condition is prevented, the life of the belt will be prolonged. If the belt slips and does not drive the fan, it is too loose and should be tightened as explained above. A slipping belt will wear or burn out much quicker than a belt which is properly adjusted. It is important to remember, however, that more trouble is caused by belts being too tight than by their being too loose. Belt dressings or oils should not be used on the belt adopted as standard equipment on Ford cars

We're not out of the woods yet on the railroad transportation problem. Help out every way you can. Unload incoming cars promptly. Use motor trucks wherever possible, especially on short hauls. Fill railroad cars to capacity, and calculate your orders on the full carload basis whenever you can. Drive cars from the factory. Boost Good Roads, well-kept roads, a Federal Highway system, and the Motor Transport idea. Every little bit helps.

* * *

Invisible drip pans for show room cars. Good idea. Explained fully in the March number

Classiford Bodies

The Dayton Metal Body Co., recently organized in Dayton, O., is turning out from its new factory, located just north of Dayton, the Classiford Bodies illustrated herewith. One of these bodies is a five-passenger touring body and the other a roadster. The touring model equipment consists of a body, top, windshield hood, radiator shell, mud guard over the front axle, filler, cap crown fenders, running boards, running board shields, gasoline tank in the rear, Stewart vacuum feed tank and a tire carrier. The finish can be had in several standard colors. The roadster body also illustrated herewith is quite attractive. The equipment for it is the same as that of the touring. These bodies give new lines to the Ford car and greatly enhance their appearance. Oval shaped lights are furnished in the rear of the top.

Out of Gas!

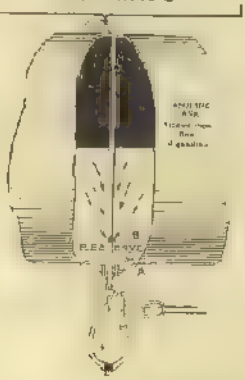
Buy a Gas-O-Larm

For Your Ford or Chevrolet

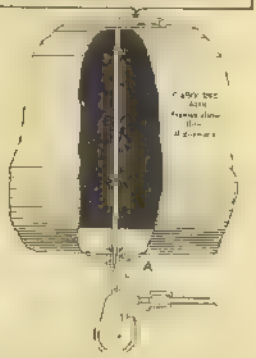
Reserves One Gallon of Gasoline

How Gas-O-Larm Operates

Gas-O-Larm in this position closes Port A so that gasoline flows through Port B creating this reserve C



Gas-O-Larm in this position opens Port A to use reserve gasoline supply



Installed in One Minute

Automatically warns you when your gasoline runs low

Splendid opportunity for reliable representatives

LOCKTITE PATCH CO.

DETROIT, MICHIGAN WINDSOR, ONTARIO

Every Owner of a 1920 Ford Will Want This New Battery Box

Because: It is a new GLOBE Box designed especially for the 1920 Ford battery.

GLOBE Battery Box C-108-FBS. Inside dimensions 9⅜" long, 7⅞" wide 10⅛" high. Finished in fine black enamel. Two suitcase catches to hold down the snug-fitting lid.

It's convenient. The present battery is in an awkward, inconvenient location under the rear seat. This GLOBE Box—C-108-FBS—permits the battery to be kept in an accessible place on the running-board where it can be tested easily and frequently.

It protects the battery against mud, water, snow and sleet which are likely to destroy the battery case and the battery.

Every Ford owner knows that the efficiency of his battery and the length of battery usefulness are worth many times the cost of this box.

Sectional view. Note cable slots and the hold-down rods which anchor the storage battery solidly, preventing vibration.

List Price, $3.00 Each

WRITE FOR DISCOUNTS

The Globe Machine & Stamping Co.

1200-1250 West 76th St. Cleveland, Ohio

Nothing but Advance Cork Insert Takes Out the Rattle and Jar!

MERELY changing linings in a Ford won't stop the rattle and jar. Soon, new linings get hard, oil soaked and slick. Then, again, rattle and jar when you start or stop.

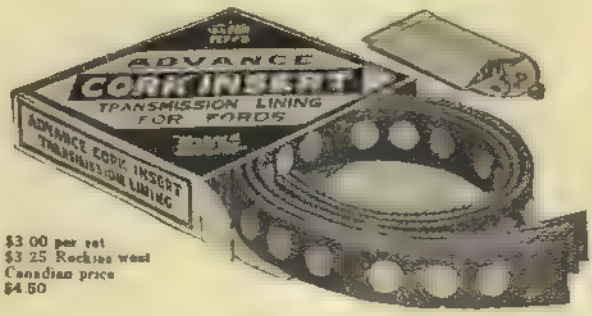
Plain linings cannot stop the rattle and jar!

Ford cars need Advance Cork Insert Linings.

Advance Cork Insert Linings never get a hard, slick surface. The cork surfaces always remain soft, smooth and velvety. They do not soak up oil.

Advance Cork Insert Lining outwears three sets of any other lining—always gives a sure, smooth brake.

When you change linings always insist on Advance Cork Insert because it lasts so long and is the only lining that makes a Ford run smooth.



$3 00 per set
$3 25 Rockies west
Canadian price
$4.50

Dealers

You know that ordinary linings for Fords are a source of trouble. Your Ford owner customers know it, too. Why not sell them Advance Cork Insert Lining? It gives no trouble. Wears extremely long and helps the operation of the transmission.

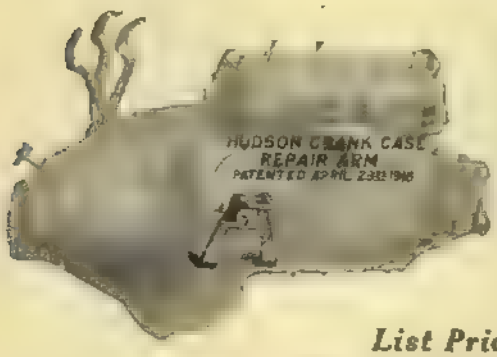
You can get them from your jobber or write us direct. Have you our window and counter cards working for you? Get them. We supply them free of charge.

Advance Automobile Accessories Corp., 56 E. Randolph Street, Chicago

IMPORTANT ANNOUNCEMENT!!!

NEW MODEL FITS ALL FORDS!!!

Model "B" Hudson Crankcase Repair Arm



Fits Both Sides of All Ford Passenger Cars and Ford Trucks With or Without Starter

List Price, $1.50
West of the Rockies, $1.75
Liberal Cash Discounts
Canadian List Price, $2.50

DOES A FULL DAY'S JOB IN 20 MINUTES—NO TEARING DOWN OF THE MOTOR

THE REGULAR ARM THAT HOLDS THE FORD ENGINE TO THE FRAME BREAKS EASILY

The old method of repair was to take engine out of the chassis for a riveting or a welding job or purchase a new crankcase, and then re-assemble, which consumes at least a day's time. The new starter model makes this work even more difficult because of the necessity of disconnecting and re-assembling gears

THE HUDSON CRANKCASE REPAIR ARM DOES THE JOB IN 20 MINUTES—WITHOUT TEARING DOWN THE MOTOR

SIMPLY LOOSEN FOUR BOLTS SLIP ARM IN PLACE TIGHTEN NUTS

A TREMENDOUS SELLER—25,000 SUPPLY DEALERS CARRY THEM IN STOCK
300,000 SOLD DURING 1919

BOSTON
SHOW EXHIBIT
SPACE F-517

JOBBERS AND RETAILERS THAT ARE QUANTITY BUYERS:

ALABAMA—Mobile
McGowin-Lyons Hdw. & Sup. Co
Birmingham
W. T. Whited Tire & Supply Co
Moore Handley Hardware Co.
Montgomery—Loub Hardware Co
Johnson Tire & Auto Co
ARKANSAS—Fort Smith
Atkinson-Williams Hardware Co
Meister Bros.-Bracht Co.
Little Rock
Arkansas Auto. Appliance Co
Rogers—Benton County Hdw. Co
Siloam Springs
Benton County Hardware Co
ARIZONA—Phoenix
Boss Rubber Co
CALIFORNIA—Fresno
Chandler & Lyon Co
Los Angeles
McCoy Motor Supply Co.
Chandler & Lyon Co
Oakland—Chandler & Lyon Co
San Francisco
W. E. & W. H. Jackson
Chandler & Lyon
Electric Appliance Co
McCoy Motor Supply Co.
Sacramento—Kimball-Upson Co
COLORADO—Denver
B. K. Sweeny Electrical Co.
M. L. Foss
Pueblo
Motor Accessory & Tire Co.

Colorado Springs
General Auto Supply Co
CONNECTICUT—Bridgeport
Todd Rubber Co
Danbury—Sam Schwartz
New Haven—Sam Schwartz
Todd Rubber Co.
DELAWARE—Wilmington
Delaware Hardware Company
DISTRICT OF COLUMBIA
Washington—Rudolph & West Co
Southern Auto Supply Company
FLORIDA—Gainesville
Baird Hardware Company
Miami—Miami Tire Company
GEORGIA—Athens
Griffith Implement Company
Atlanta—King Hardware
Augusta—Central Automobile Co
IDAHO—Pocatello
Northwestern Auto Supply Co.
ILLINOIS—Bromfield
Kelly Auto Supply Co
Chicago—U. S. Rubber Co
Chicago Auto Equipment Company
Electric Appliance Company
New England Mills Company
Hadiford Company of Chicago
E. C. Kadow
John C. Hoof
Surplus Auto Supply Co.

Danville—E. B. Collins Co
Joliet—Harper Hardware Co
Peoria—Kelly Auto Supply Co
Quincy—Tenk Hardware Co
INDIANA—Evansville
Orr Iron Co
Fort Wayne—Lamont Company
S. M. Kaough & Company
National Mill Supply Co
Ft. Wayne Iron Store Company
Mossman Yarnelle Co
Indianapolis—The Gibson Company
A. J. Hoosier Co
W. J. Hollins & Co
Universal Accessories Company
Van Camp Hardware & Iron Co.
Lafayette—The Gibson Co
Logansport—The Gibson Co.
Muncie—The Gibson Co
Terre Haute
Terre Haute Automobile Co., Inc
The Gibson Co
Richmond—John J. Harrington
IOWA—Burlington
Motor Car Supply Company
The Robert Donahue Hardware & Iron Company
Burlington Iron Store Co
Cedar Rapids
Western Auto Specialty Co.
Fred J. Barr Supply House
Davenport—Midwest Motors Corp.
Fred J. Barr Supply House

(Continued on next page)

SOME OF THE JOBBERS AND RETAILERS THAT ARE QUANTITY BUYERS:

Des Moines—Herring Motor Co.
U. S. Rubber Co.
Fort Dodge—Prusia Hardware Co.
Iowa City
Western Auto Specialty Co.
Ottumwa—Haw Hardware Co.
Sioux City—United Auto Supply Co.

KANSAS—Liberal
Liberal Auto Supply Co.
Topeka—W. A. L. Thompson Co.
[illegible] Auto Supply Co.
Wichita—Massey Iron Co.
Shattuck George Company
Motor Equipment Co.

KENTUCKY—Louisville
Belknap Hardware & Mfg. Co., [illegible]
Harbison & Gathright Co., Inc.
Peaslee-Gaulbert Co., Inc.
Robinson Bros. Co., Inc.
Roe-Brown Co., Inc.
Rivers-Dishlon Co.
Lexington—L. Gay Strode

LOUISIANA—New Orleans
Electric Appliance Company
Shreveport
The Lee Hardware Co., Ltd.

MAINE—Portland
L. W. Cleveland
W. E. & B. J. Harmon

MARYLAND
Baltimore—R. W. Norris & Sons.

MASSACHUSETTS—Boston
U. S. Rubber Co.
Bigelow & Dowse Company
Brophy & Barraboe
S. H. Davis & Co.
Fall River—Congdon & Carpenter Co.
Springfield—U. S. Rubber Co.
Bigelow & Dowse Co.

MICHIGAN—Bay City
Bay City Tire & Supply Co.
Detroit—Automobile Equipment Co.
Bowman-Gould Company
Grand Rapids
Grand Rapids Auto parts & [illegible]
Michigan [illegible] & Accessories [illegible]
Tisch [illegible]
Saginaw—F. E. Doherty

MINNESOTA—Duluth
Marshal-Wells Co.
Minneapolis—W. S. Nott & Co.
St. Paul—O. J. Smith & Son
Hackett, Gates & Hurty Co.

MISSOURI—Carthage
Joplin Supply Co.
Joplin—Joplin Supply Co.
Kelnschmidt & Hemphill Supply Co.
Sorber-Kuhn Co.
Kansas City
Automotive & Supply Company
Bonniwell Calvin Iron Company
Robert B. Cannon Sales Co.
The Equipment Co.
Moberly—Goddard White Co.
St. Louis—B[illegible]
Campbell Iron Company
Hoithaus Saddlery Company
Missouri Auto Specialties Co.
Strauss Saddlery Co.
Sligo Iron Store Co.
United [illegible] Co.
Springfield—Ozark Motor & Sup. Co.
Herman-Sanford Saddlery Co.
Southwest Auto & Supply Co.
Webb City—Joplin Supply Co.

MONTANA—Great Falls
Northwestern Auto Supply Co.
United States Rubber Co.
Billings—[illegible]
Northwestern Auto Supply Co.
United States Rubber Co.
Butte—Bertram Motor Supply Co.
U. S. Rubber Co.

NEBRASKA—Hastings
J. H. Haney
Lincoln—Henkle & Joyce
Nebraska B[illegible] Company
[illegible] Company
Omaha—[illegible] & Sons
[illegible]
[illegible]
U. S. Rubber Co.
Master Sales Company
Paxton & Gallagher Co.
United States Auto Supply Co.
Western Auto Supply Co.
Central City—[illegible]

NEW JERSEY—Englishtown
V. E. Mount
Newark—Ellis Auto Supply Co.
Paterson—H. Lund Smith
Trenton
Standard Supply & Equipment Co.

NEW YORK—Albany
Albany Hardware & Iron Co.
Binghamton
Motor Equipment Company
Brooklyn—Farrell Auto Supply Co.
Martin Evans Company
Buffalo—[illegible] & Rogers
[illegible]
United States Rubber Company
Freeport, L. I.
[illegible] Auto Supply House
Kingston—L. S. Winne & Co.
Middletown—E. E. Hunter
Newburgh—[illegible] Wilkinson Co.
New York City
Par[illegible] Auto Equipment Co.
Auto Hardware & Equipment Co.
[illegible]
W. E. Pruden Hardware Company
W. H. Rowerdink & Son
Richards Auto Supply Company
[illegible]
Strong & Trowbridge Company
Whittemore Sim Company
Motor Car Equipment Company
[illegible]
Rochester—Sidney B. Roby Co.
U. S. Rubber Co.
Schenectady—[illegible]
Syracuse—Onondaga Auto Sup. Co.
[illegible] Rubber Co.
Utica
Utica Cycle & Supply Company

NORTH DAKOTA—Bismarck
Quanrud, Brink & Reibold Co.
Minot—[illegible]

OHIO—Akron
Hardware & Supply Co.
[illegible] & Supply Co.
Athens—[illegible]
Canton
Canton Auto Supply Company
Young Auto Supply Company
Cincinnati
James J. Bastlin Company
Cincinnati Automobile Company
[illegible] Rubber Company
Kruse Hardware Company
Cleveland
Penna. Rubber & Supply Co.
Banner Tire & Supply Co.
[illegible]
Columbus—Griswold Sohl Company
G. H. & F. A. Sells Co.
[illegible] Bros. Hardware Co.
Dayton—Dayton Iron and Steel Co.
Geo. W. Shroyer Company
Toledo—U. S. Rubber Co.
Youngstown
[illegible] Rubber & Supply Co.

OKLAHOMA—Oklahoma City
[illegible] & Supply Co.
J. B. [illegible] Co.
Enid—Motor Supply Co.
Tulsa
Tulsa Motor Supply Co.

OREGON—Portland
Ballou & Wright
Chanslor & Lyon Co.

PENNSYLVANIA—Allentown
Motor Accessories Company
[illegible] Hardware Co.
Altoona
Standard Supply & Equipment Co.
Walter G. Thompson
Chester
Thompson Auto & Supply Co.
Harrisburg
Standard Auto Supplies Co.
Front Market Auto Supply Co.
Lancaster
[illegible] Auto Supply Co.
[illegible]
[illegible] Auto Supply Co.
Philadelphia
Automotive Equipment Co.
Betrodin Rubber Company
Canal Motor Company
Gaul, Derr & Shearer Co.
George W. Nock
Standard Supply & Equipment Co.
Supplee-Biddle Hardware Company
Pittsburgh
Auto Accessories Company
Superior Auto Accessories Co.
J. & M. Auto Supply Company
Jackson Motor Supply Company
Lyle Brothers
United States Rubber Company
Joseph Woodwell Company
Reading—E. S. Youse Company
General Auto Supply Co.
Scranton—American Auto Supply Co.
Samuel Weinberg Company
Wilkes-Barre
American Auto Supply Co.
Williamsport
[illegible] Saddlery Company

York—General Auto Supply Co.

RHODE ISLAND—Providence
Combination Ladder Company
Congdon & Carpenter Company
Millers, Inc.

SO. CAROLINA—Charleston
C. D. Franke Auto Co.

SOUTH DAKOTA—Aberdeen
Spaulding Auto Supply Company
Huron—Huron Auto Company
Sioux Falls—W. F. Brownell Co.

TEXAS—El Paso
Bass Rubber Co.
Houston—Peden Iron & Steel Co.
Southern Equipment Co.
Texas Auto Supply Co.
Wichita Falls—
Western Auto Supply Co.
Amarillo—General Auto Supply Co.
Austin—W. H. Richardson Co.
Dallas—[illegible]
Southern Equipment [illegible]
Ferris, Dunlap Auto Supply Co.
Texas Auto Supply Co.
Fort Worth
Western Auto Supply Co.
San Antonio—Peden Iron & Steel Co.
Southern Equipment Co.
San Angelo
Crowther Hardware Co.
Texarkana—Turner Paper Co.
Waco—Hays Tire Co.

TENNESSEE—Bristol
Interstate Hardware & Supply Co.
Nashville—Auto Supply Co., Inc.
Keith Simmons Co.

UTAH—Salt Lake City
Strevell-Paterson Hardware Co.
Capitol Electric Co.

VIRGINIA—Lynchburg
Economy Auto Supply Company
Norfolk—W. M. Whaley
Standard Supply & Equipment Co.
Petersburg—George B. Carter

WASHINGTON—Seattle
Chanslor & Lyon Co.
Ballou & Wright Co.
Spokane—Chanslor & Lyon Co.
Tacoma—Chanslor & Lyon Co.
Reynolds & Reynolds Co.

WEST VIRGINIA—Wheeling
T. T. Hutchison Company
Earle Rogers Company
Charleston
Tr[illegible] State Electric Co.

WISCONSIN—Green Bay
Morley-Murphy Hdw. Co.
Madison—L. F. Schoelkopf
Milwaukee
U. S. Rubber Co.
Philip Gross Hardware Company
Wm. Frankfurth Hardware Co.
Eau Claire—Auto Specialty Mfg. Co.
Wausau
Wisconsin Auto Supply Co.

WYOMING—Sheridan
Lininger Implement Co.

CANADA—Edmonton, Alberta
Marshall Wells Alberta Co., Ltd.
Motor Car Supply Co.
Calgary—Motor Car Supply Co.
Wood, Vallance & Adams
The Chapin Co.

MANITOBA—Winnipeg
Great West Electric Co.
Wood Vallance, Ltd.
Motor Products, Ltd.
Merrick Anderson Co.

NEW BRUNSWICK—Fredericktown
Phillips & Pringle
St. John—Nova Sales

ONTARIO
Kingston—Edwin Chown & Son
Hamilton
Wilson Auto Specialties Co.
Walker Vallance, Ltd.
Wood, Alexander & James
London—James Cowan & Company
Toronto—Garage Supply Co.
Canadian General Elec. Co., Ltd.
Ottawa (all branches)
Keyes Auto Supply Co.

QUEBEC—Montreal
Canadian Fairbanks-Morse Co. (all branches)
Ludger Gravel & Sons
Mechanics Supply Co., Ltd.

B. C.—Vancouver
W[illegible]
Wood, Vallance & Leggat
[illegible] Co., Ltd.

SASK.—Regina
B[illegible] Bros.
Independent Electric Company
Saskatoon—Bowman Brothers

HUDSON MOTOR SPECIALTIES CO. 1932-34 Arch St. Phila., Pa.

Western Agents: HUGHSON & MERTON, Inc.
San Francisco, California — Los Angeles, California — Portland, Oregon — Denver, Colorado

Makes Speedsters Out of FORDS

NO longer need the Ford be left far behind in a whirlwind of dust as the higher-powered car sweeps on ahead. By the simple installation of higher gear ratios, as high as 60 miles an hour can be attained with the Ford without any racing of the motor whatever, and at a saving in the consumption of fuel.

The Ford Motor has sufficient power to take care of a higher gear ratio than the standard 3 63–1. By substituting our special ratios of 2¾–1 for the racy type, or 3–1 for general driving, more power and speed are obtained.

Our lower gear ratio of 4–1 is for use on Ford commercial cars—it affords that extra power for negotiating steep hills and sandy roads. Price $15.00.

These gears are machine cut, nickel gears, and are quality in every respect and guaranteed against defective material or workmanship.

SAME RATIOS AND PRICE FOR THE CHEVROLET

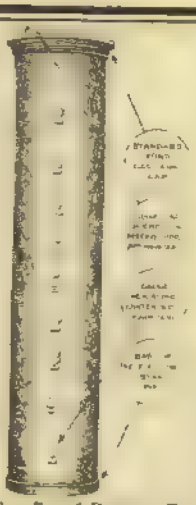
A Big Market for These Special Gear Ratios, Mr. Dealer

AND YOU CAN CASH IN HEAVILY ON IT

LOOK FOR THE SIGN OF QUALITY—A STAR ON EVERY GEAR

Detroit Radiator & Specialty Co.

961 Woodward Ave. **Detroit, Mich.**



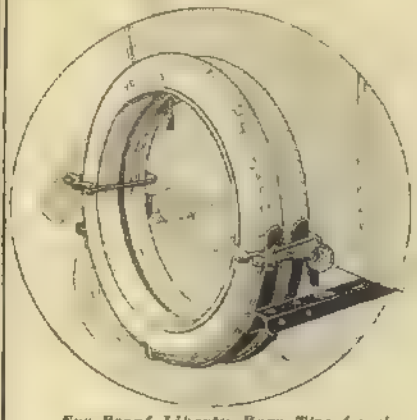
Fox Proof Reserve Tank for Fords—$1.50 in U. S.

Warns You Against Running Out of Gasoline

So simple, it's so efficient, and means so much to Ford drivers This Fox-Proof Self-Filling Gasoline Reserve Tank for Fords holds enough "gas" to run a Ford two to five miles Fits into the main tank and takes its reserve supply automatically every time you fill your tank. No more delays no more long walks to a gasoline station. Isn't this tank mighty good insurance against inconvenience? Made of heavy rust-proof galvanized metal, can't wear out. Is tank cap, gauge, primer and reserve tank all in one. Price anywhere in the U. S.—**$1.50.**

Rigid, Noiseless, Thief-Proof Carrier for 2 Tires

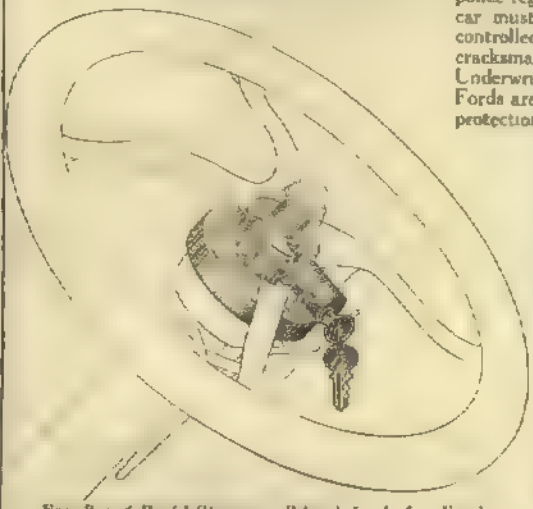
"Sure it's the best carrier I've ever seen," said a Ford owner. It locks two tires, with or without demountable rims, rigidly vertical at the rear. Attaches by means of two strong iron angles between frame and body—and locks tires with two heavy patent clamps that do away with straps, chains or weak metal bands. Drilled for rear bumper, too Thus the Fox-Proof Liberty Rear Tire Carrier with one installation provides tire carrier, bumper support, license bracket and tail-light bracket. Think of it, the Fox Proof Liberty locks tires rigidly vertical—they can't mar body; it's thief-proof—noiseless—can't rattle or shake loose—can't wear out. The shrewdest Ford owners won't have anything but a Fox-Proof Liberty because it does away with all haphazard makeshifts. Price anywhere in the U. S $12.50.



Fox-Proof Liberty Rear Tire Carrier $12.50 in U. S.

Now THE MOST ADVANCED *Auto Lock*

The Fox-Proof ***Rigid*** Steering Wheel Lock defeats the thief with his one-man-tow-bar—***does not change Ford steering design*** or weaken mechanism Locks front wheels rigidly straight ahead to meet fire or police regulations; and cramped right or left for safety when car must be left on a grade. The ⅞" vault type bolt controlled by a Yale type lock absolutely defies the auto lock cracksman. He cannot pick it—there's no master key Underwriter's approval earns theft premium reduction when Fords are Fox-Proof equipped. No other lock offers equal protection and security. Be sure it's a Fox-Proof ***rigid*** lock.



Fox-Proof Rigid Steering Wheel Lock for Fords $7.00 in U. S.

Standard 14-inch black enamelled spider and lock, $7.00 anywhere in the U. S For those who wish a higher degree of refinement, we can furnish a 14-inch or 17-inch nickel spider with lock, with beautiful walnut rim on the latter.

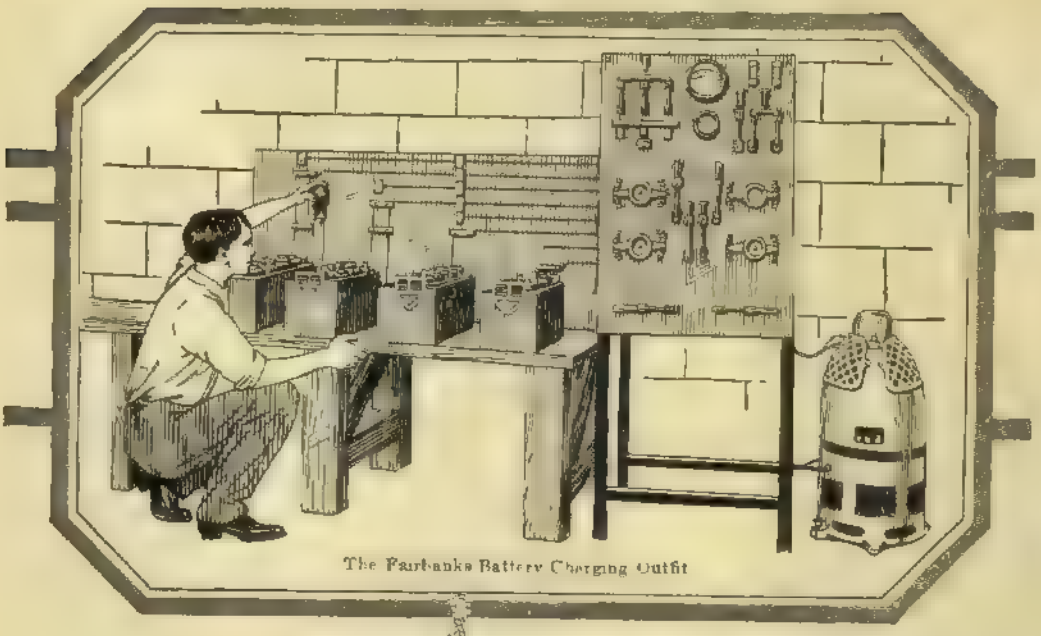
These are all the latest steps in furthering and protecting Ford service. They are new, unique and quality all through. See your dealer, but if he hasn't stocked them, send us your order direct, mentioning his name.

DEALERS: We are getting our line into your hands as rapidly as possible. If you haven't lined up, write us.

A. H. FOX GUN COMPANY

4646 No. 18th St. Philadelphia, Pa.

Makers of "The Finest Gun in the World"



The Fairbanks Battery Charging Outfit

How to Improve

YOUR repair shop with its labor-saving machines makes short work of overhaul jobs on motors, axles, and transmissions. To improve it install equipment that will locate and repair your ignition, lighting and starting troubles.

The Fairbanks line of electrical service station equipment fills this need completely and is backed by the well-known "Fairbanks O. K."

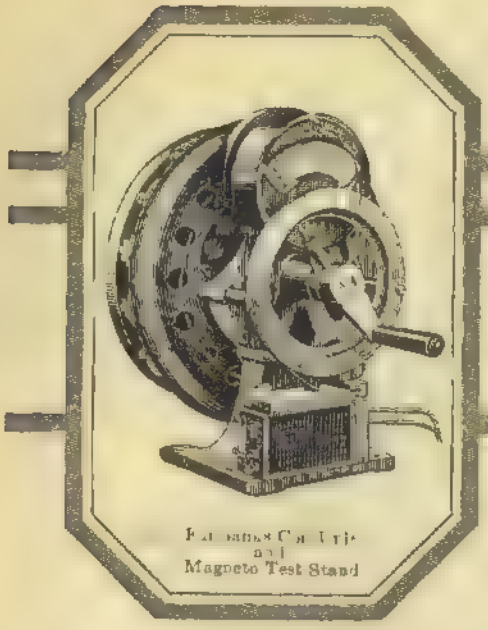
No matter what your battery charging requirements are there is a Fairbanks Charging Outfit that will meet them efficiently and economically.

The vertical Motor-Generators used have established a new standard of perfection in their ball-bearing construction, low operating temperature, freedom from vibration, and automatic lubrication.

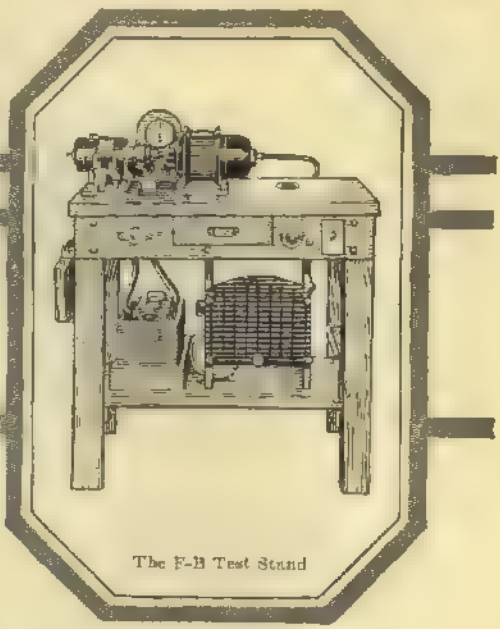
The switchboard framework is arranged so that other separate units may be added

Sole Distributors for
The Service Station Equipment Company
The Hemphy-Cooper Manufacturing Company
The Petterson Engineering & Manufacturing Co
The Steere-Kitson Company
The F-B Electric & Manufacturing Company, and other manufacturers of garage equipment

FAIRBANKS O.K.



Fairbanks Coil Unit and Magneto Test Stand



The F-B Test Stand

Your Modern Service Station

as desired. Thus your installation grows with your business.

The paralleling switches at the bottom of the panel permit charging at double rate for any desired time, shortening the charging time to meet urgent requirements.

Generator, starting motor, coil and magneto troubles are completely taken care of by the F-B Test Stand and the Fairbanks Coil Unit and Magneto Test Stand. They are used to detect and repair *all* troubles that develop in these units.

Install this equipment and be prepared to meet every demand in the electrical repair line. This means more profits, time saved, and customers satisfied by modern service.

There is a Fairbanks Branch House near you. Send for Catalogue 10—better yet, drop in and see these devices in operation.

THE FAIRBANKS COMPANY

Administrative Offices New York

Branch Houses

Albany	Chicago	New York	Scranton
Baltimore	Cleveland	Paterson	St. Louis
Birmingham	Detroit	Philadelphia	Syracuse
Boston	Hartford	Pittsburgh	Utica
Bridgeport	Newark	Providence	Washington
Buffalo	New Orleans	Rochester	

Havana, Cuba *London, England* *Birmingham, England*
Glasgow, Scotland *Paris, France*

Automobile Engine Tester
Bearing Burning-In Machine for Ford and Fordsons
Motor Test Stands
Engine and Axle Stands
Bearing Boring Machines and Re-Babbitting Jigs
Cylinder Reboring Machines for Fords and Fordsons
Spring Testing Presses
Arbor Presses
Power Hammers
Air Compressors
Speedy Cut Reamers
Transmission Reaming Machines
Rear Axle Sleeve Pullers
Radiator Test Plugs
Piston Clamps
Connecting Rod Straightening Jigs
Beach Motor Clamps
Transmission Drum Clamps
Rear Axle Pinion Gear Presses
Pinion Gear Pullers
Piston Bushing Reamers
Crank and Camshaft Testing Machines
Emergency Wheel Clamps
Wheel Pullers
Valve Port Renewing Tools
Bushing Drivers
Tool Bits
Speed and T Wrenches
Special Jacks
Ring Tools
Tow Lifts
Combination Electric Drills and Valve Grinders
Visible Measuring Gasoline Pumps
Servistock Shelving for Ford Parts
Special Ford and Fordson Tools and Machines
Magneto and Coil Unit Tester
Lining Irons

FAIRBANKS O.K.

Prompt Shipments Now for Winter Profits

STOCK UP!

G&O Radiators for Ford Cars

The Quality radiator with greater cooling capacity than any other radiator for FORD cars. Fits inside of standard shell. Tank and core brass throughout.

Dealers are stocking up now for spring business.

Honeycomb and tubular cores for replacements.

Orders for repairs filled and shipped on day of receipt.

The G&O Mfg. Co. New Haven, Conn.

MOLINE
COMMERCIAL
AND
TRUCK BODIES

Two Million Dollars' Worth to Go Into Service in 1920

Greater Body Building Facilities

More than two million dollars' worth of Moline bodies will go into service on Ford Ton Trucks and Model T chassis in 1920—due to the new and vast facilities of the Moline Plow Company Body Works, now one of the largest builders of such bodies in America.

New Features in Design and Construction

New features, stronger construction, without weight increase, complete adaptability, complete standardization to add to the selling advantages of Moline Commercial and Truck Bodies along with the price advantages.

Nation-Wide Distribution Through 23 Moline Branches

You will readily recognize the greater convenience, the quicker delivery facilities for installation, afforded by the nation-wide distribution and stocking of Moline Bodies in the 23 Moline Branch Houses advantageously located. Many in the same city where there is a Ford Branch.

A Greater Dealers' Opportunity Now

The foregoing, with many other favorable features of Moline Commercial and Truck Bodies, bring a great dealers' opportunity squarely before you. Dealers desiring details of the Moline Body Department and its value, should

WRITE FOR DETAILS TODAY

MOLINE PLOW COMPANY
BODY WORKS

Sales Office: Moline, Ill. **Factory: Freeport, Ill.**

Ten Thousand Dealers

recommend

WHITE STRIPE!

In sets of three, $3.00 Rockies, West, $3.25. Canadian price, $3.00.

In Rolls, 250 feet, 32c per foot
Rockies, West, 35c Canadian price, 40c

WHITE Stripe has made good with these dealers—it has *worn* its way into their confidence. They know it is the *best* fabric lining for Fords.

HUNDREDS of thousands of Ford owners have learned, thru hard usage, the true value of White Stripe. They demand White Stripe.

THIS is natural. White Stripe is made specially for Fords. It is made from the highest grade of cotton—woven into a special wearing weave—treated with a compound that keeps the fabric soft, protects it from hot oil, and keeps a smooth gripping surface.

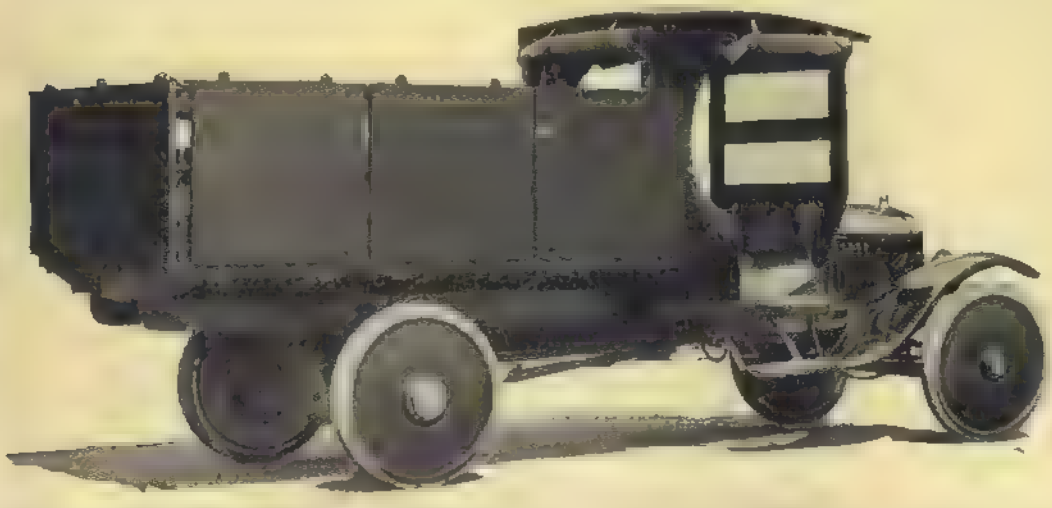
ARE you one of the ten thousand dealers selling White Stripe? If not, send us your name and the name of your jobber. Let us show you *how good* White Stripe is. All jobbers sell White Stripe—but to make sure that you get it quickly, write us.

Advance Automobile Accessories Corp.

56 E. Randolph Street **Chicago, Illinois**

Cornfield Wheels

Pneumatic Results—and More—With Solid Tires



Not One Dollar for Repairs
in Six Months—Overloaded Every Day

This Ford One-Ton Truck, equipped with Cornfield Resilient Wheels, had been run 3000 miles up to December 15th, without a dollar of expense for repairs.

It frequently carries two tons, 4000 pounds, and has carried 5000 pounds. It is overloaded every day, yet shows no sign of damage to motor or chassis.

The tires are worn down just three-sixteenths of an inch from road abrasion, but show no damage from the excessive loads. That is because the Cornfield Resilient Wheels absorb the jar of travel.

Double Your Ford Truck Capacity
Equip It With Cornfield Resilient Wheels

Cornfield Resilient Wheels are now being made in large numbers for Ford trucks. The same Wheels can be used for like capacity trucks of other makes.

These Wheels so completely absorb the road shocks that your truck will have greater carrying capacity, the strain on axles is relieved, the motor is protected from vibration, the tires will be insured against the disintegrating pound on roadways.

Write for the Cornfield Booklet. It will interest engineers, dealers and truck users

Cornfield Wheel Co., Inc., Detroit, Mich.

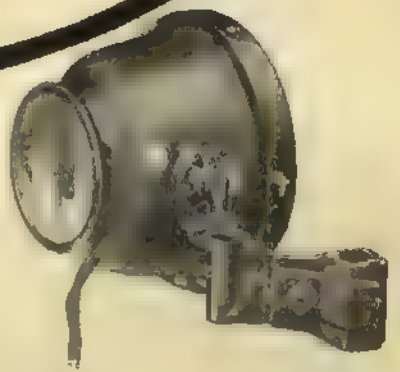
A new designed Spot-Lamp for all cars containing positive lock and friction universal bracket, easily focused, new style switch and quick-acting removable door.

The

Cork-O-Lite

CINCINNATI

For Every Car



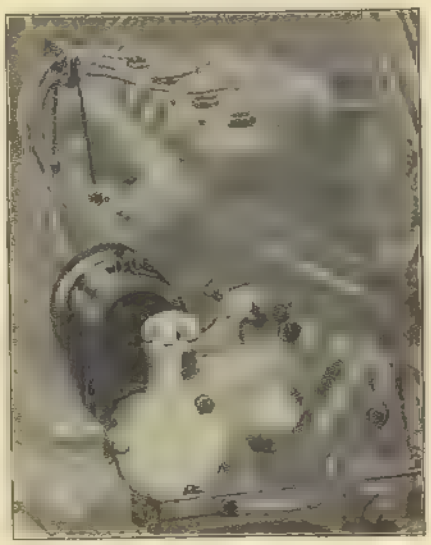
THOS. J. CORCORAN LAMP CO., Inc., Winton Place, Cincinnati, Ohio

Up Hill or Down Dale

It's all the same to the Ford that is equipped with an

EISEMANN
MAGNETO

It Doubles the Power of Ford Cars!



By a simple and rugged attachment, which becomes an integral part of the motor, the standard G4 Eisemann Magneto may be used as the source of ignition for Ford cars.

When attached, the Magneto is driven through two gears, not three or more as are those of some other attachments, nor by chain drive.

There is absolutely no reaching, drilling, cutting or tapping of any nature whatsoever. You can install the outfit very quickly and without difficulty, and at all times it is superbly accessible.

The supreme simplicity and ruggedness of construction will please your customer. But he will derive his greatest satisfaction from the increased power, greater flexibility, more rapid acceleration, greater fuel economy and increased hill-climbing ability. Write us about it.

THE
EISEMANN
MAGNETO CORPORATION

Sales and General Offices:
32 Thirty-third Street, Brooklyn, N. Y.

Chicago: 910 S. Michigan Av. Detroit: 85 Willis Ave., W.

STEINER HYDROKIT

Protects Your Battery

1. It tests your battery 2. It carries distilled water

The dealer who knows about the simple but constant attention that his customer's battery needs, finds the Steiner **Hydrokit** a rapid seller. It prolongs the life of his battery by protecting it, saves him worry and expense. One of the easiest ways to make more customers and better friends is to sell them indestructible **Hydrokits.**

WRITE TODAY FOR DETAILS

JOBBERS IN PRINCIPAL CITIES

LIST PRICE, $2.50
$3.00 West of the Rocky Mountains

Write for Booklet C-4

Steiner Manufacturing Company

Long Island City
NEW YORK

Export Department:
250 W. 54th St., New York City

Western Sales Representatives:
W. H. GILBERT SALES CO.
918 Hearst Building
San Francisco, Cal

The Standard Spark Plug of the World

The old, old story of AC dominance was retold at this year's New York and Chicago Automobile Shows. A census taken of the passenger cars and motor trucks on display showed that more fine cars were equipped with AC Spark Plugs than with all other makes combined. The dealer takes no chances in stocking a line that has the endorsement of the leading automotive engineers of the country, or in recommending and selling spark plugs that are used as standard equipment on the leading makes of automotive vehicles. That line is the AC. Concentrate upon it. Write today for complete dealer information.

Champion Ignition Company
FLINT, *Michigan*

U. S. Pat. No. 1,195,727, April 18, 1916
U. S. Pat No 1,216,139, Feb. 13, 1917. Other Patents Pending

A TRAVEL NO SUN PARLOR that for occasion becomes a welcome retreat from the elements. This comfortable, economically operated, five-passenger four-door Sedan

$2145 f. o. b. factory

Allen

A Worthy Companion of the Allen Touring Car

Resting on the same capable chassis of generous power

Those who know the quickness, the very unusual hill-climbing ability and the dogged persistence of the new Allen engine, will agree that it is ideal for a sedan

A sedan body considerably outweighs a touring body, for which reason a power plant of just passable performance on a touring model is seriously deficient when it must pull the closed car load.

The Allen Sedan gives exceptional service, because it is amply supplied with power by the Allen four cylinder engine, which won Allen instant recognition as one of 1920's really great automobiles of moderate size.

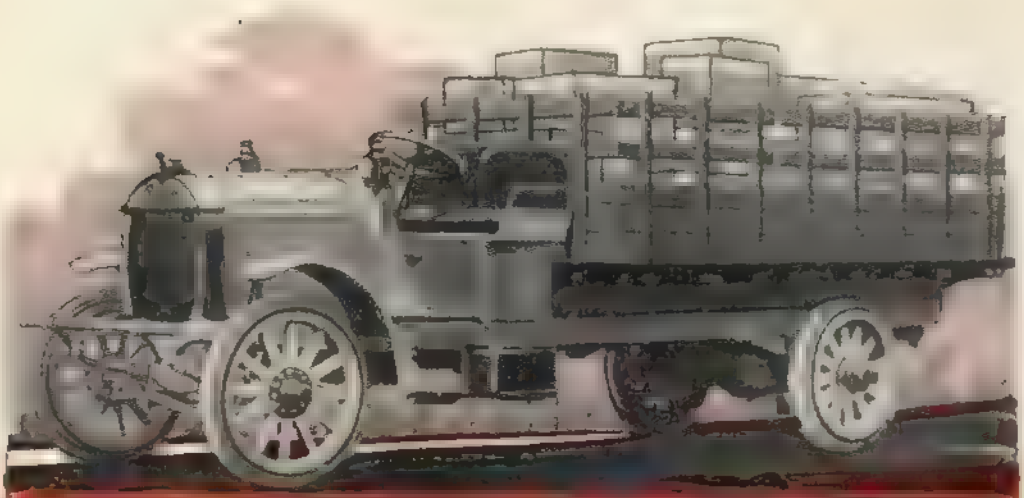
Also, you find in this sedan, as in the touring car, the same riding ease, due to extremely long springs and fine balance.

The body is tastefully appointed and staunchly built on an unusually substantial coach foundation. Hinges and door locks of rattle-proof construction—45 inch rear seat interior in dark gray velour 41 inch front seat in Spanish leather to harmonize platinum-toned nickel trimmings, mechanically operated window lifts, Perfection heater, rain-tight adjustable windshield with opaque storm or sun visor—these and many other niceties go to make the Allen Sedan a highly desirable vehicle

It is only fair to mention that production of this model is limited, and that the price, $2145, is lower than a car of its grade can be sold for later, if costs advance as now indicated.

The Allen Motor Company

Columbus, Ohio, U. S. A.



KOEHLER

TRUCKS and ROAD TRACTORS

NEW

—in the way they are built

—in the way they perform

—in the way they sell

The KOEHLER Line

Model C
1½-ton truck chassis
$1685

Model M
2½-ton truck chassis

Model MT
5-ton road tractor chassis
$3250

Write for details and our unusually attractive dealer proposition

H. J. Koehler Motors Corp.
152 OGDEN STREET NEWARK, N. J.

any weight of car or truck. It is simply operated.

It is made in two models, one without the extension screw. Standard lowered is 10 in. high and it raises 6 in. It weighs 12 lb. No. 2, with the extension screw, is the same as No. 1, except the extension screw gives 5 in. additional rise. Weight is 14 lb.

McKinnon Exhibits Cellular Radiators for Fords

A new product was exhibited at the Grand Central Palace by the McKinnon Dash Co., Buffalo, N. Y. This is a honeycomb radiator for Ford cars, made of brass by the wrapped process. These radiators are carefully tinned inside and out. The tubes are

McKinnon Radiator

This is a genuine cellular core radiator of brass.

⅛ in. wide, straight downward with corrugated sides, agitating the water in its downward passage, thus carrying sediment with it. The radiator is constructed that there can be an outward strain many times before an actual burst takes place. Thus the danger of bursting from freezing is overcome. This radiator can be plugged up if a leak develops until there is opportunity to repair it. The radiator sells for $27 and $30, according to the size of the cells, which are made 5-16 in. square and 5-16 x ½ in.

Sunderman Jack for Passenger Cars and Trucks Introduced

The Sunderman Jaxall Hydraulic Jack for trucks and passenger cars was introduced at the Grand Central Palace of New York, by the Sunderman Corp., Newburgh, N. Y. This jack is principally for garages and shops. It automatically checks on the lifting stroke at any desired height. Oil is the liquid used in this jack. The up and down motions of the handle pumps oil from one cylinder into the other. To lower the jack, the release lever is pulled and the weight of the car carries it down to the ground. This

Sunderman Jaxall Hydraulic Jack

This jack was introduced at the Grand Central Palace. It is made in three sizes. Model 1 for passenger cars; Model 2 for three and five-ton trucks, and Model 3 for five and ten-ton trucks.

jack has no gears or ratchets. Brass and steel are used throughout the construction of this jack.

New Model Boyce Moto-Meter

The recent automobile show at New York City brought forth a new De Luxe Model Boyce Moto-Meter, made by the Moto-Meter Co., Inc., Long Island City, N. Y. This model is designed for high grade passenger cars and has a temperature tube that is ½-in. in diameter, having a broad column of red liquid readable at long distance. The case is silver plated and the finish is excellent. The size is 3⅜ x 5⅝ in. and the weight is 20 oz. The price is $15

NEW YORK SHOW

New Air-Operated Valve Spring Compressor Exhibited at the Grand Central Palace

At the exhibit of the Trexler Co., 1418 Walnut St., Philadelphia, in the Grand Central Palace, New York City, was a brand new tool for use in the garage. This tool is the Trex Air-Operated Valve Spring Compressor. It is a practical tool for taking the valve out or putting it in. The tool is connected with the compressed air system and applied to the engine and the valve turned on. This will compress the spring and the pin or key can be quickly removed or inserted.

The tool is made of steel and is light and strong and will compress heavy valve springs. It is stated to be universal, being adaptable to practically all types of engines. This tool allows the use of both hands after the spring is compressed. The net price is $15.

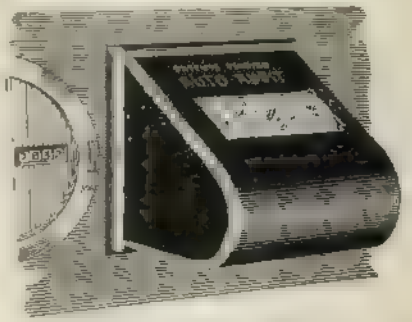
Fire-Gun Exhibited

The well-known fire extinguisher made by the Fire-Gun Mfg. Co., Inc., 115 Fourth Ave., New York City, has been improved in several details and a new model, 1 in. shorter than the standard, has been added to the line. Improvements are seen in the handle. This can be turned in either direction to unlock the gun for use. The nozzle stop has been improved, having a needle with a spring to retain it in a closed position. Brass has been replaced by copper at several points. The Fire-Gun is a double acting liquid pump that can be refilled as often as desired. It can be had with finish to match the car

New Device for Recording Expenses and Mileage

A new device to be mounted on the instrument board and to provide convenient means for keeping accurate records in mileage per gallon of fuel, the tires and any other items about the machine, is being produced and was on exhibit at the Grand Central Palace by the Wm. R. Johnston Mfg. Co., 359 E Ohio St., Chicago, Ill. This device, which sells at $2, serves as a constant reminder to the driver, due to its location, to jot down the many little items of expense and memoranda so valuable to those who desire to keep records of the expense of the car.

This device consists of a mechanically operated roll of tape upon which the various items are recorded. A knurled wheel draws the tape across the opening on the face of the instrument. Enough paper is



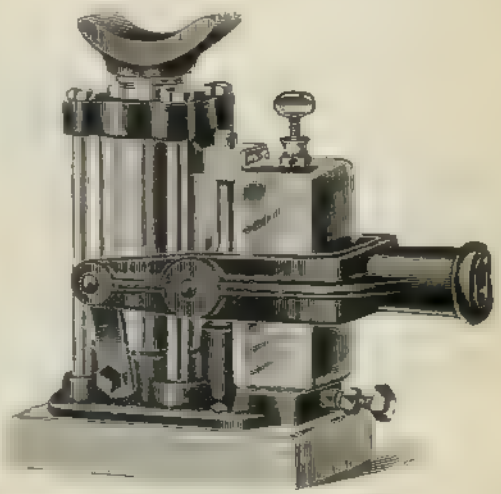
Johnson Auto Audit

This device provides means for a complete record of the mileage per gallon of gas, per quart of oil and the mileage per tire and any other item desirable to be kept a close record of

supplied for a season and it is easily replaced with a new roll. The mechanism is with in an attractive case.

Pratt Exhibits Hydraulic Auto Jack

At the Grand Central Palace was exhibited a new jack produced by Wm. E. Pratt Mfg. Co., State-Lake Bldg., Chicago, Ill. This new jack has a barrel made from steel tub-



Pratt Hydraulic Auto Jack

This jack is of capacity to handle any weight of car or truck.

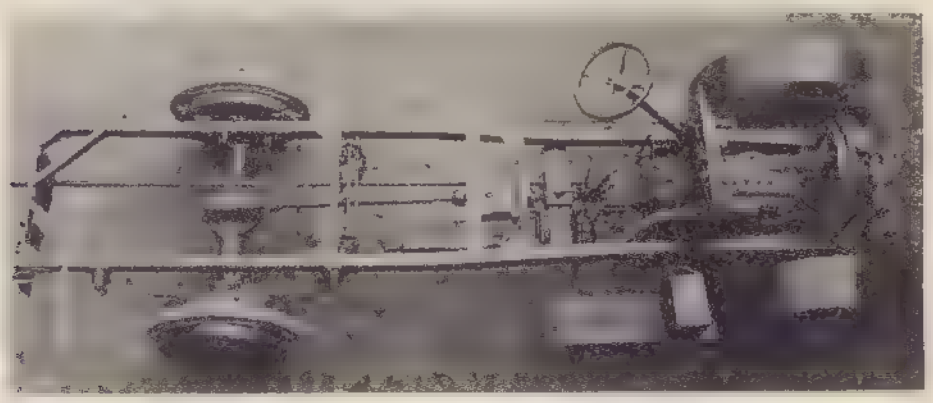
ing, a lifting bar of steel, and the balance being malleable iron. It is made in answer for a jack that will raise with little effort

Cotta transmission. The propeller shaft is of the mechanical joint type, having two joints which are inclosed in oil-tight pressed-steel tubing. A Lavine worm-and-nut type steering gear is used. The artillery wheels are equipped with tires of standard make. The equipment includes cab and cushion, front fenders, side and rear oil lamps, horn, tool box, complete tool kit and jack.

Model H Triumph Truck
An assembled job designed for the farmer especially, but adaptable for general hauling.

The Buffalo Tractor Truck

A NEW machine, broad in its scope of utility, has been announced by the Buffalo Truck & Tractor Corp., of Buffalo, N. Y. It is stated to be adaptable to many lines of business, such as road contractors, oil producers, farmers, etc., and has an exceptionally low gear ratio provided, which enables it to be geared down to the low speed of one mile in seven hours. A feature of this is that provision has been made to give the ordinary truck wheels traction in the fields Two extensions, 3-in. wide on each side of the rear wheels, but not quite so great in diameter as the rear wheels, that they will escape the surface of a paved road, are utilized. They are equipped with lugs which increase the traction of the truck to enable it to be driven into the field under load.



Bird's-Eye View of the One and a Half Ton Buffalo Tractor Truck

It is also useful as a portable power plant, the take-off power being obtained from a pulley, which is attached to the end of a shaft which in turn extends from the trans-

mission to and projecting beyond the rear of the chassis. This shaft is capable of developing 18 hp.

The capacity of the truck is 1½ tons and is electric lighted and started. It has a device for extra radiation when in use as a power plant. The power may be used when the truck is running or when idling. Locomotive power is obtained from a four-cylinder Lycoming Model K engine, having a 3½-in. bore and a 5-in. stroke and is of the L-head type. For truck purposes this truck can be made to run twenty miles an hour.

This truck may be obtained in any one of three types. The first type is a regular commercial chassis and lists at $1650; the second type, which includes the tractor wheel equipment, lists at $1750; and the third type, which consists of the portable power plant, tractor wheel equipment and chassis, lists at $2150.

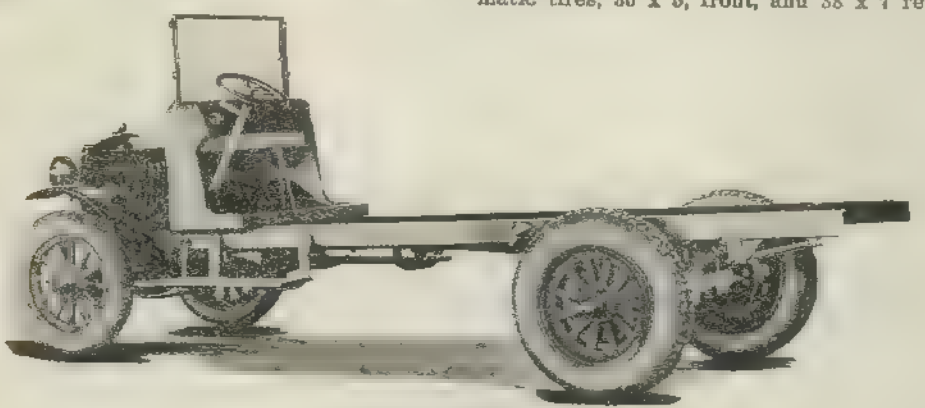
Duplex Delivery Truck

MEDIUM-CAPACITY speed truck demand has led the Duplex Truck Co., of Lansing, Mich., to produce the two-wheel driver model shown herewith. All parts of the truck designed for speed work. Pneumatic tires are standard equipment.

The power is supplied by a 4 x 5¼ in. engine having an S. A. E. rating of 25.6 hp. This engine will obtain and hold a speed of 25 m.p.h. with a full load at normal engine speed.

The radiator is special Duplex design with cast iron tanks and finned head. The water is circulated by a centrifugal water pump. Cooling is further assisted by an 18-in. fan, driven by a 2-in. leather belt.

The following is a resumé of additional specifications: Front axle, drop-forge, I-beam, 2⅝ in. deep; semi-elliptic front and rear springs; heavy artillery type wheels, having twelve 1¾-in. square spokes; pneumatic tires, 36 x 5, front, and 38 x 7 rear;



Duplex Two-Wheel Drive

A high-speed, medium-capacity truck for quick-delivery service.

The Duplex company contends that truck speed should be secured through engine power and not through a low gear ratio. This accounts for the adoption of an engine which, at first glance, appears to be too large for a truck of medium capacity. The power is transmitted through a five-plate, dry-disk multiple clutch to a transmission of selective sliding gear type. Final drive is through a David Brown type of worm gear with a 5.51 ratio. A Stromberg 1¼ in. carburetor is used and electric lighting and starting is provided by a Westinghouse outfit with a 157 am. hour battery.

wheelbase, 145 in.; price, $2575, f.o.b. Lansing, Mich.

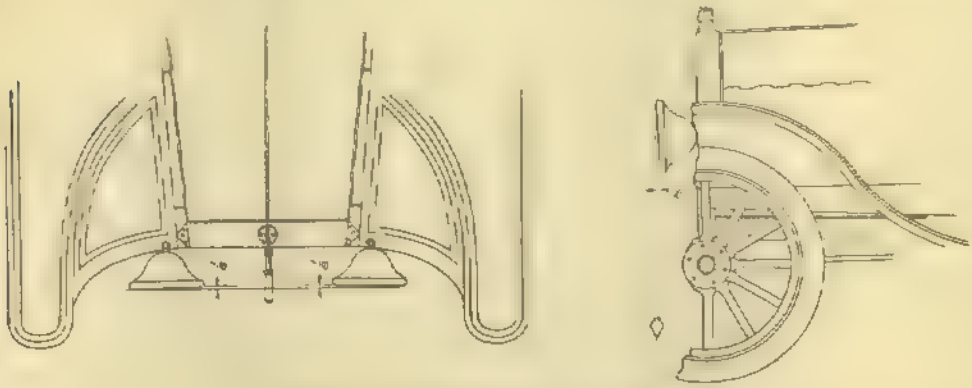
The equipment includes: Windshield, electric starting and lighting, ammeter, Boyce motometer, speedometer, electric horn, tools, jack, rim wrench, front fenders, grease gun and driver's seat.

National Rubber Corporation, Los Angeles, Cal., has been incorporated as distributor of Carmojon tubes on the Western coast.

satisfactory illumination. Proper reflecting equipment is essential. The parabolic type of reflector gathers the light from the lamp and assists in projecting it in nearly parallel rays.

The variation in voltage at which lamps operate is quite broad, regardless of whether connected directly to the magneto or taking current from the generator or from the storage battery. This variation is due in the first instance to the speed at which the motor is running and in the second case to whether or not the battery is completely charged or partly run down. It is accordingly necessary to use a lamp which will give sufficient light when the motor is running slowly or the battery partly discharged, and that will not burn out when the motor is running at a high speed or battery fully charged.

Mazda B (vacuum) lamps made in what is known as the G-12 bulb size have been adopted as standard equipment on the Model T Ford car. In order to destroy the last of the air which may remain in the bulb of the vacuum lamp to reduce the possibility of the bulb blackening, a substance called the "Getter" is introduced. This "Getter" acts upon the substance which tends to blacken the bulb, decomposing it so as to make it colorless. The filament in Mazda B lamps (see Fig. 3) is wound in the form of a double helix and at present is made of tungsten which is capable of withstanding the vibration both when cold and when heated. There is very little in the headlamps to get out of order except the bulbs and they do not require any attention unless they meet with an accident or burn out. In all such cases, replace the bulb.



Setting of Headlamps When Properly Aligned

The Chandler Carburetor for Ford Cars

A new, simply-constructed carburetor with few moving parts, is being manufactured by the Holland Brass Works, 616-20 Monroe St., Chicago, Ill. This carburetor has two simple adjustments and one moving part. It is stated to meter and govern the air to give the best firing mixture at all speeds.

This carburetor admits air at a point between the throttling butterfly valve and the firing chamber, the amount of air being determined by the position of the throttle and the speed of the engine. A by-pass provides means for easy cranking, gasoline from a small puddle being drawn through it to the engine. The gas spray jet in this carburetor is subject to the same vibration and suction as the spring air valve, shown at the right in the illustration. This combination is stated to give the engine a powerful firing mixture on acceleration. The makers claim for this carburetor speed, easy starting and a low throttling engine on the same adjustment.

The Chandler Carburetor for Ford Cars

A new carburetor with one moving part and two simple adjustments designed especially for the Ford car. The price is $18.

New Cars and Models

New Power Unit in the Daniels

THE Daniels Motor Car Co., Reading, Pa., well known manufacturers of the Daniels Eight cars, are using an improved power plant in its models. This new engine is "V" type, 3½-in. bore and 5¼-in. stroke.

The connecting-rods are mounted side by side on a common crank pin which, of course, necessitates slight staggering of the cylinders. The crankshaft is of massive design and of hollow construction to enable full pressure system to be employed, and runs in three bronze-backed babbitt-lined bearings. Crankshaft is made of chrome nickeled steel, finished all over in order to obtain perfect running balance. Main journals and crank pins are polished. The steel forged flywheel, machined all over, is bolted to a flange on the rear end of crankshaft; this, in turn, is machined all over to facilitate obtaining a perfect running balance. Camshaft, which is a steel forging, cams being integral, is mounted on three bearings of ample dimensions. The end thrust of the camshaft is confined to the center bearing; these bearings are supplied with oil, under pressure. The valves communicate direct with the cams through the conventional type of roller and tappet construction; these parts are positively lubricated. The lower half of the crankcase is the conventional barrel type, which serves as an oil sump. The camshaft is positively driven by helical cut gears. The oil pump is the conventional gear type pump mounted on the front end of the oil sump. The distributor and oil pump are driven off the camshaft by spiral gears.

Daniels Eight-Cylinder Seven-Passenger Victoria

One special feature of this engine is in the lubricating system. There are no tubes,

The New Daniels Power Plant

The latest Daniels car is powered by this improved eight cylinder 3 x 5¼-in. engine, as shown herewith

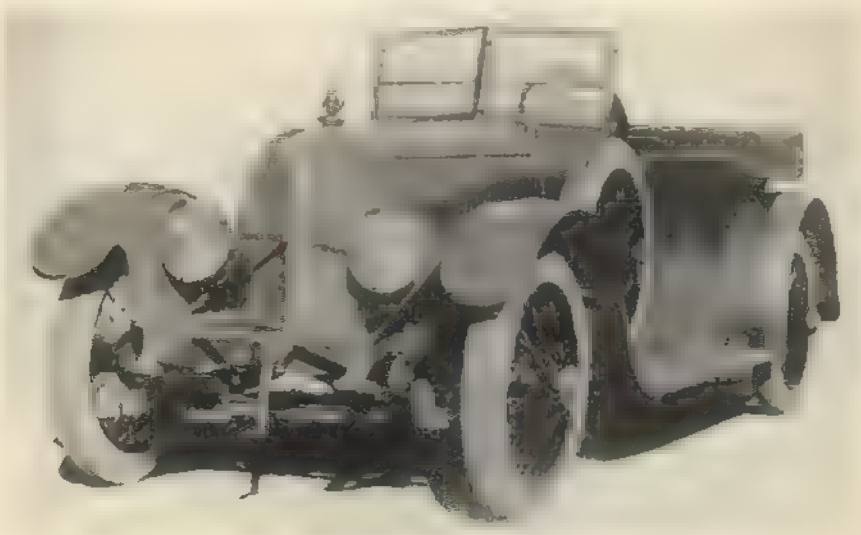
NEW CARS AND MODELS

or tube connections to break loose or blow out, when subjected to high oil pressure, as all of the tubes in the crankcase and oil sump are moulded in place when these units are cast, and these tubes are made to register from one unit to another; the necessary openings being provided for washing out and cleansing these lines when necessary

The generator and water pump are driven by a silent chain Ignition is furnished by Delco distributing unit. Starting and lighting furnished by Delco six-volt units. Carburetion is effected by Zenith Duplex carburetor through a water jacketed manifold into the cylinders, this water jacketed manifold also serves to carry the water from the cylinders to the radiator; in this construction the hottest water is over the gas intake manifold. The clutch is the conventional dry, multiple disc type, alternate plates being lined; compound leverage being employed. The transmission is conventional type, having three forward speeds and one reverse, all shafts being mounted on annular ball bearings of ample size. Change speed and emergency brake control are made an integral part of the transmission.

The wheelbase is 132 in., tread standard, tires 34 x 4½ in., cord, on Firestone demountable rims. The frame is pressed channel steel, narrowed at the front, and springs are semi-elliptic all around, underslung at the rear. Both axles are Timkens, the rear full-floating with spiral driving gears. The brakes are external and internal, 15½ x 2½ in.

Steering is from left side with levers in the center. The fenders of the Daniels car are pressed steel and follow closely the wheel contour. There are splash shields between the running boards and the body, and between the radiator and the frame. The gasoline tank of 20 gal. capacity, with a 3 gal. reserve, is given three point suspension at the rear end of the chassis. Gasoline is fed to the carburetor by a motor-driven pressure pump. A hand pump is installed on the cowl to establish the initial pressure. The bodies mounted upon the Daniels chassis are the five, six and seven passenger touring, four passenger close-coupled touring, three passenger roadster the limousine, suburban limousine, the brougham, the landau brougham, the landau let brougham, sedan, collapsible winter roadster. A solid mahogany top rail extends around the entire double cowl body of the five and seven passenger touring models. Windshield is frame, rain-vision type. A cowl ventilator is operated from the instrument board. The upholstery is long grained, hand buffed leather, with the cushions and backs very deep. Extra seats fold into the back of the front seats



New Meteor Car Being Produced in Philadelphia

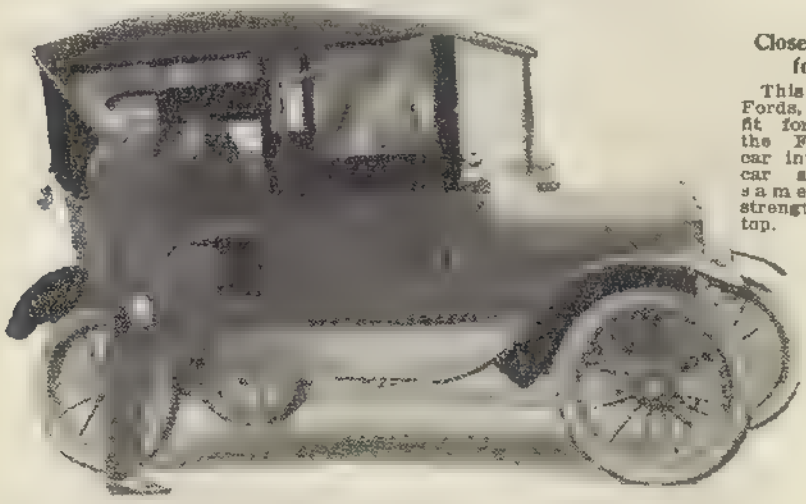
The accompanying illustration shows the four passenger Meteor car produced by the Meteor Motors Corp., 3607 Lancaster Ave., Philadelphia, Pa. A description of this car was given on pages 242 and 243 of the July, 1919, issue Attention is called to the V type radiator, head lamp and windshield and fenders as well Spare wheels are carried one on each side near the front as shown Wire wheels and shock absorbers are standard equipment This car is made in a four passenger model at $6000 and a two passenger model is about to be produced also.

NEW YORK SHOW

New Enclosure for Ford Cars

At the Grand Central Palace, New York City, was introduced the Close-Tite enclosure for Ford cars. This is an outfit made by the Longdin-Brugger Co., Inc., Fond du Lac, Wis. It is installed on the regular Ford touring car or roadster top and will allow the open car to be closed in to protect the passengers from inclement weather. The attachment adds but 37½ lb. weight. The curtains are 24 in. wide and made almost entirely of Pyraline to insure the most light possible in the interior. They are constructed on flexible steel frames to give rigidity and the curtains travel in pressed steel channels extending from the body of the car up to the center of the top. They operate the same as an ordinary roll top desk and can be raised or lowered without kinking. The outfit for the touring car sells at $48 and for the roadster $33

brilliant polish with a cloth or chamois. They are all metal, giving lightness, neatness and rigidity. They are made in round, oval, square and various shapes as desired. The 6-in. round models sell at $2 50; the 12 x 6 in. oval at $4 and the 20 x 8 in. oblong at $8.



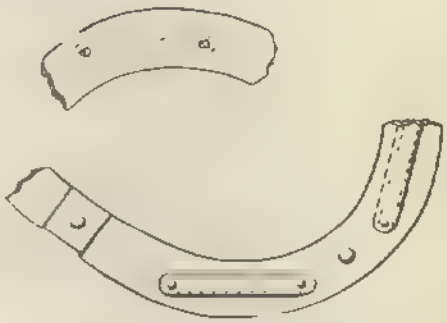
Close-Tite Tops for Fords

This top for Fords, a new outfit for converting the Ford touring car into a closed car and at the same time strengthening the top.

McAvoy Automobile Window Curtains

At the Grand Central Palace, the McAvoy Mfg. Co., 1303 S. Michigan Ave., Chicago, had on exhibition the McAvoy Automobile Curtain. These curtains showed a unique method of locking the fabric in the curtain. The accompanying drawing clearly shows this method. In one portion of the frame is a depression the shape of the piece which is placed over two studs in the other portion. This helps to retain the top fabric firmly and is used in all the large-sized window curtains.

These window curtains are made so that they will not rust or tarnish. They are die-cast aluminum and are readily brought to a



Feature of the McAvoy Automobile Window Curtain

This illustration shows the new locking device used in the McAvoy window curtains.

Luthy Storage Battery Exhibited

The Luthy Storage Battery, made by the Luthy Storage Battery Co., Newark, N. J., was on exhibition at the Grand Central Palace, New York City. The battery has been improved over previous models in that there is a new celluloid separator, which is claimed to make the battery more efficient.

Do You Use Buyers' Index, Page 624

CONDENSED REVIEW OF TRADE NEWS

Ireland Seeks American Cars

NEW YORK CITY, Jan. 20.—The Irish Trade Commission to America, Suite 204, 280 Broadway, requests that all American automobile manufacturers forward to them their names and the products that they manufacture in order that the work of promoting a closer trade relationship between this country and Ireland might be facilitated. It states that at present there is a very great opportunity for American manufacturers of automobiles to supply the demand that exists in Ireland at this time, and especially so since there is a popular sentiment afloat in Ireland which is strongly in favor of direct trade with America. This had been made possible by the operation of a line of steamers between America and Ireland

Washington Association Banquets

WASHINGTON, D. C., Jan. 21.—About 100 members were present at the annual banquet of the Washington Automotive Trade Association which was held at the New Willard Hotel on Jan. 19. At the regular business meeting which followed the banquet the following officers were elected: Rudolph Jose, president; C. Royce Hough, vice-president; C. H. Warrington, secretary, and E. J. Quinn, treasurer.

The principal address was delivered by A. G. Bachelder, chairman of the executive board of the American Automobile Association. Pyke Johnston, secretary of the National Automobile Chamber of Commerce, spoke upon the necessity of co-operation between the motor car dealer and the manufacturer. An address was also delivered by Wm. Pullman, editor of the American Motorist.

Friend Motors Corporation Announced

PONTIAC, MICH., Jan. 21.—Otis C Friend, together with associates, has purchased the plant of the Olympian Motors and will continue the manufacture of Olympian models pending the completion of the plans for a new car which will embody Mr. Friend's ideas. The new company will be known as the Friend Motors Corp. Aside from his duties as president of the company, Mr. Friend will personally supervise the manufactures of the company. He will be remembered as a former executive of the General Motors Co., which position he resigned in order to devote all his time to the new enterprise.

The Hartford Show

HARTFORD, CONN., Jan. 28.—At the thirteenth annual automobile show of the Hartford Automobile Dealers' Association, held during the week of Jan. 17th, twenty-nine members of the dealers' association displayed cars and trucks. Two makes of tractors were shown.

The individual exhibits were the best ever made by local dealers. The seventeen different makes of trucks on exhibit were arranged along the side spaces and occupied all the available room.

Local distributors of the Paige, Scripps Booth and Locomobile were unable to secure space owing to their not having been in business long enough and held individual displays in their own salesrooms.

Seventeen other dealers were ruled out of the show because they had not been in business two years. These formed the Automobile Trades Association of Hartford and staged a show one week in advance of the annual one.

From the standpoint of sales all the shows have been a huge success.

Sells Car Maintenance

HARTFORD, CONN., Jan. 21.—One progressive dealer in Hartford has met with marked success in the sale of maintenance service on a yearly basis. He called on various dealers in the locality who did not have time to wash their cars and sell them too and secured their washing business. Then he obtained contracts to wash, oil and grease cars of private owners on a yearly basis.

He has installed a washing system whereby he can wash a car in 11 minutes. His business has grown to such an extent that two washers are kept busy from morning till night and he has been obliged to put men on for night work.

Scotland to Have Show

Glasgow was the scene of the Scottish Automobile Exhibition which was held from January 23 to 31. Both passenger and commercial cars were exhibited as well as a number of new comers which were seen for the first time.

Many firms handling used cars rebuild them before offering them for sale. Then they know what's in 'em. An article in the AUTOMOBILE TRADE JOURNAL for March gives some good pointers on this subject.

COMMERCIAL MOTOR CAR DEPARTMENT

This department also includes trailers, road tractors, and truck-forming units that are not especially for Fords, these being in the Ford Section.

The 1920 Gramm-Bernstein Line

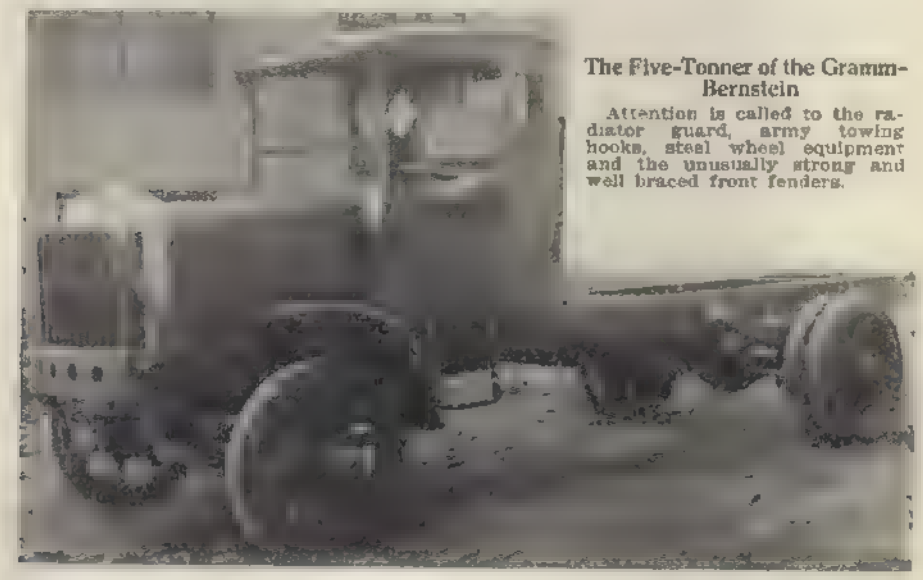
SIX models will comprise the line of trucks to be turned out by the Gramm-Bernstein Motor Truck Co., of Lima, Ohio, for the coming season. The models resemble to a degree the Class B Liberty Truck, and are as follows: 1½-ton internal gear, and worm drive models in the following capacities: 1½, 2, 2½, 3½ and 5 ton

The 1½-ton internal gear truck, known as Model 15, is powered by a Continental "N" engine and uses a conventional type transmission with a Clark axle. It is equipped with 36 x 3½-in. solid tires in the front and 36 x 5-in. single solids in the rear and an electric generator, battery lights and horn, tools and driver's seat is included in the chassis price, which is $1975. The frame is the standard Gramm-Bernstein type. The brakes operate on the rear wheels and are equalized. The two-piece driving shaft which is supported in the center is connected by three flexible disk universal joints of the company's two-bolt type.

A wooden body-sill, which is clasped on the frame with wrought iron clamps, provides a means of clamping the body upon the sills, thus eliminating the necessity of drilling holes in the frame.

The entire line of the company's worm driven trucks are very similar in appearance, varying only in size. The 2½-, 3½- and 5-ton capacities are driven by Liberty truck type engines. Steel wheels are regular equipment on these models. The 1½- and 2-ton models are equipped with the latest type Continental motors.

Perhaps the most important features of the Gramm-Bernstein worm drive line is the fact that they are regularly equipped



The Five-Tonner of the Gramm-Bernstein

Attention is called to the radiator guard, army towing hooks, steel wheel equipment and the unusually strong and well braced front fenders.

with a standard cab with doors and storm curtains that open with the door, ventilating windshield, motometer, radiator guard, radiator shutters and shroud, army towing hooks, hubodometer, metal license brackets front and rear, spring trailer drawbar supported in frame by extra A member, electric generator, storage battery, lights and horn.

The transmission used throughout the line of worm drive trucks is of Gramm-Bernstein design. Shifting of gears is eliminated by a dry disk individual type of clutch. The gears and clutches are assembled on a six-splined shaft by an exclusive process which does away with the use of bolts and set screws. The transmission has a filler spout extending beyond the frame to facilitate renewing the oil.

On the 1½- and 2-ton models the gasoline tank is mounted on the dash to insure a strong gravity feed, while in the three larger models the thirty-gal. tanks are mounted under the seat with a Stewart heavy-duty truck type vacuum system.

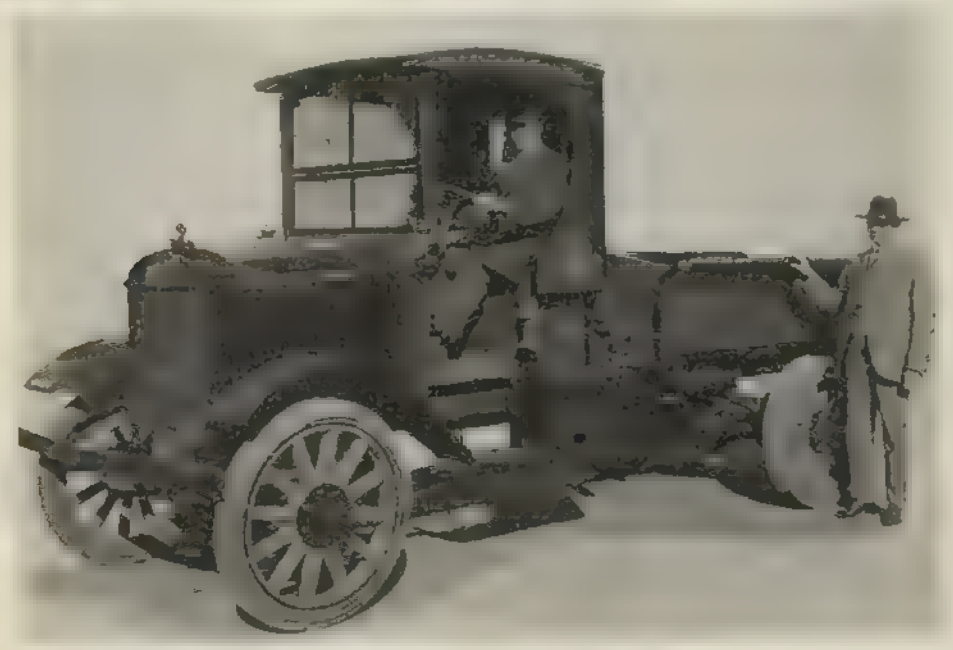
Two Models of Dependable Line

TRUCKS in two capacities are being manufactured by the Dependable Truck & Tractor Co., of Galesburg, Ill., 1½- and 2½-tonners. An unusual feature of these trucks is a device called the Viscometer, which cools the oil of the lubricating system of the engine. The radiator mounting on springs is another feature. This is said to overcome any synchronized vibration that may come about through the main springs.

Both models have vacuum fuel feed system and Buda engines.

The power of the engine is transmitted through a multiple dry disk clutch and Fuller transmission. Then through a tubular propeller shaft with Acme oil-tight universal joints that require attention only every three or six months. It is claimed that this is the only joint that uses nothing but oil for lubrication. Final drive is through a Wisconsin worm drive axle

The hot oil is drawn directly from the crankcase by a gear non-priming pump to the Viscometer, which in addition to other parts consists of approximately 6 ft. of spiral tubing. After being cooled the oil passes to the bearings, at the same time keeping them cool. This device is claimed to restore the viscosity of the oil.



One of the Trucks of the Dependable Line

The trucks of the Dependable line use a Buda engine in both the 1½ and 2½-ton jobs. The engines used are 3¾ x 5½ in. and 4¼ x 5½ in. respectively.

NEW EQUIPMENT, PARTS AND SUPPLIES

New Milwaukee Pump

The Milwaukee Tank Works, Inc., Milwaukee, Wis., has just placed on the market the Type 36, Five-Gallon Rapidelivery Speed Pump for handling gasoline. This new pump, which is illustrated herewith, provides an efficient means for the hand operated method of filling the motor car gas tank. The maker states that 15 gal. per minute can be obtained without any special effort. The pump is well finished in a hard-baked enamel with nickel trimmings. There are adjustable measuring stops to allow the operator to accurately draw one, two, three, four or five gallons at a single stroke. Slightly over 12 turns of the crank delivers 5 gal. of gasoline and to return the plunger, but two revolutions of the crank, in the same direction, are necessary. The handle is always turned forward, never backward. A meter is part of the equipment and records each gallon pumped. This pump has a filter to remove any water or dirt from the gasoline and when not in use the cover, which is counterbalanced, is raised and locked with the hose nozzle inside.

Type 36 Milwaukee Five-Gallon Pump

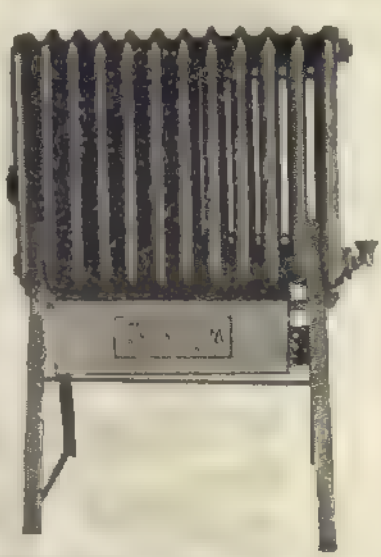
The standard equipment includes the meter, filter, 10 ft. of 1¼-in. metal hose, portable filling nozzle and an electrically illuminated sign. The price of the pump with 250-gal. tank is $397.

This Type 36 pump can be furnished with a motor drive to eliminate the manual labor, at $198 extra. The motor is ¼-hp. and utilizes 110 volt A. C. or D. C. current.

You need all your fingers to button your collar and fix your tie. Play safe.—National Safety Council.

A Steam Garage Heater

A new heater for the small garage which will avoid the excessive cost of installing a heating system and maintaining a coal burning system, is being manufactured by the Masdon Mfg. Co., 30 State St., Cambridge, Mass. It will burn either gas or kerosene without odor. The outfit consists of a radiator on cast iron standards, supporting a sealed iron box, protected by two layers of perforated brass screen, spaced one inch apart. The box contains a boiler with suitable conduits and an approved gas or a wickless blue flame kerosene burner and an ignition device. This eliminates the use of matches, a source of danger. The heater is made of cast iron, constructed along the famous Davy's Miners lamp principle to give protection against fumes.



Masdon-System Garage Steam Heater
This is a steam heater operated by oil or gas and protected from fumes.

Combination Press and Vise

The Motor Machine Corp., Reliance Bldg., Kansas City, Mo., is marketing a Combination Press and Vise illustrated herewith. This device is composed mainly of two parallel iron rods, with both ends of the rods threaded to receive the two head ends, the upper and lower, which are secured on the rods by nuts. The head is provided with an opening wherein is cut square threads to receive and accommodate a drive arm which is provided with a square thread and operates against the shaft. The device sets

GREYHOUND
TIRES AND TUBES
TERRITORY OPEN
FOR LIVE DEALERS
THE IDEAL TIRE & RUBBER CO.
GENERAL OFFICES & FACTORY
CLEVELAND
On the trail of a Good Tire

The brakes are 18 in. in diameter, 2½ in. wide. The front springs are 39 x 2½ in. and have 10 leaves. The rear are 52 x 3 in. and have 16 leaves. The wheels are wood, the front having fourteen 2-in. spokes and the rear fourteen 2½-in. spokes. Solid tires are standard equipment, the front being 36 x 4 single and rear 36 x 4 dual. Option is given of 36 x 8 solid in place of the duals at slight additional cost. Pneumatics extra.

Radius Rods Have Ball Ends

The driving torque is taken by heavy radius rods of the I-beam cross section type, and the rear ends of rods are attached to rear axle by 1¼ in. hardened and ground steel pins, which pass through phosphor bronze bushings 2¾ in. long. The front end of rods are secured to the frame brackets by 2¾ in. hardened and ground steel balls, permitting the rods to move freely in any direction. Torque reaction is taken by the rear springs.

The frame is 6½ in. deep, has a 3½ in. flange and is of ¼ in. stock. The rear end of the frame is firmly braced with gusset plates and pressed steel channel diagonal braces prevent the frame from getting out of square. The wheelbase is 154 in. and the turning radius 24½ ft. The distance back of cab to end of frame is 11 ft. The list price is $3400.

Oshkosh Four-Wheel Drive Two-Ton Truck

THE Oshkosh two-ton four-wheel drive model being turned out by the Oshkosh Motor Truck Co., of Oshkosh, Wis., is a general service truck built to withstand hard going and rough usage. It is so designed that the various working parts are accessible. It is powered by a Herschell-Spillman 3½ x 5-in. engine.

Side View of the Oshkosh Truck

A two tonner using 36 x 6-in. cord tires on both front and rear wheels, and powered by a Herschel-Spillman engine

The 4-cylinder Herschell-Spillman engine is 3½ x 5 in.. A Duplex governor controls the road speed to 22 m.p.h. From the engine the power is carried to the Brown-Lipe main transmission through a multiple-disk dry-plate clutch. The sub-transmission, which is of this company's design, includes a driving sprocket and an endless silent chain over a large chain sprocket containing a differential of the automatic locking type. The transmission has four forward speeds and one reverse, giving the first gear reduction in the main transmission. From the main transmission the power is carried through a short propeller shaft equipped with two universal joints, Merchant & Evans make, into the center or sub-transmission midway between the front and rear axle. From here the power is transmitted through propeller shafts of equal length to the front and rear axles. The automatic differential lock, which is also provided, immediately transfers the full driving power of the engine to the wheel, which maintains traction.

Final drive is through front and rear axles of this concern's make. In general construction they are of the conventional full floating type, the power being trans-

mitted through propeller shafts to the axles through bevel gears of conventional construction.

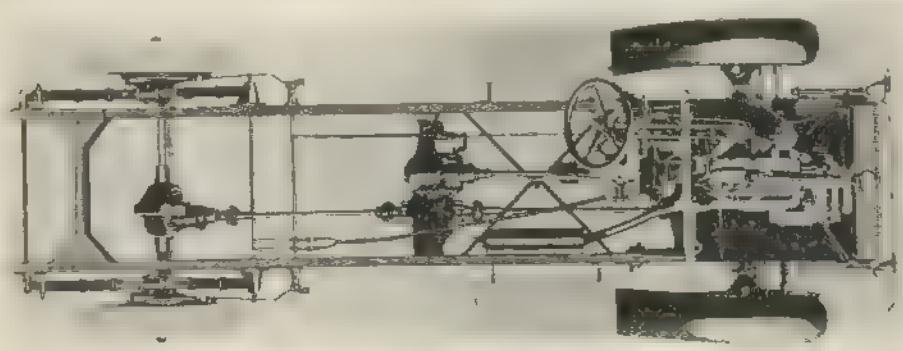
The propeller shafts and differentials are interchangeable. The gasoline is fed by the Stewart-Warner vacuum feed system to the Zenith carburetor which is provided with a hot-air intake. The ignition, engine starting and electric lighting system used is the North East electric equipment. A Willard heavy-duty storage battery is also provided. Magneto ignition system is optional.

Cooling is by a thermo-syphon system through a cast fin head radiator with Spirex core of ample cooling capacity. The cooling system is assisted by a belt-driven fan 18 in. in diameter with slack take-up.

The frame is of A. O. Smith make, pressed steel 5 in. deep and strongly reinforced with cross members. It is designed to give flexibility to permit unusual twisting without interfering with other units.

Steering is through a Ross irreversible steering gear, located on the left side and has an adjustable corrugated wheel 18 in. in diam. The spark and throttle controls are located under the steering gear. A foot accelerator is standard equipment. The service brake is of the external contracting type working on a brake drum located on the front of the sub-transmission on drive shaft, braking through sub-transmission on all four wheels with equal resistance. The brake drum is 8½ in. diam. with a 3½-in. face. The emergency brakes are of the external contracting type on the rear wheels, the brake bands being lined with high-grade brake lining. All brakes are of Oshkosh make.

The springs are guaranteed against any breakage and are of Tuthill-Titanic make.



Plan View of the Oshkosh Truck

Hotchkiss drive is used both front and rear, which is stated to give greater flexibility.

The front springs are 44 in. long, 2½ in. wide, rear 50 in. long, 2½ in. wide. The wheels are of the artillery type and contain fourteen 2-in. hickory spokes.

Standard equipment includes: Demountable rims, one extra, enclosed all-weather cab, starting and lighting system, electric button, ammeter, bumper, Detroit engine-driven air pump, heavy-duty truck jack and a complete set of tools.

The price of Model A is $3500 and Model AA $3600, f.o.b. Oshkosh, Wis.

Triumph One and a Half Tonner

MODEL H Triumph Truck is a model just announced by the Triumph Truck and Tractor Co., of Kansas City, Mo. The wheelbase is 144 in. and the capacity is 1½ tons. It is for general transportation and well adapted for the farmer. It has a military type radiator, Russell axle and Buda engine. Tread is standard, and the weight is 3500 lb.

This truck is essentially an assembled job and includes a Buda engine, model CTU, 3¾ x 5½ in. The speed is controlled to 18 m.p.h. by a Pierce Governor. The water is circulated through the cooling system by a centrifugal pump.

Lubrication is by a full force pressure feed system to all crank and camshaft bearings through drilled crankshaft.

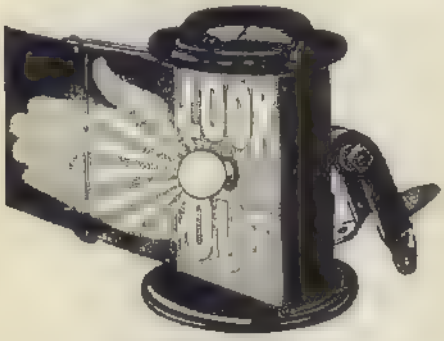
The Bennett float feed carburetor is fed by a vacuum system that draws from a 30-gal. gasoline tank located under the seat. Ignition is by a Dixie high-tension magneto with automatic impulse starter.

Power is transmitted through a Borg & Beck dry-plate heavy-duty clutch, inclosed in a special housing, to a selective type

NEW YORK SHOW

Turn-O-Stop Indicator Exhibited at the Show

A new warning signal, which has two units, each of which attaches to a rear fender and which are operated electrically from the steering column and throws outward a red hand, lights, and also operates a loud buzzer, was exhibited at the 69th Regiment Armory by the Un-X-Ld Products Corp., 76 Front St., New York City. The outfit complete sells at $25



Turn-O-Stop Indikator

One each of these indicators is attached to each rear fender. This illustration shows the hand open and the light turned on

The driver can flash out the red hand on either side, the hand pointing to the right on the right fender and to the left on the left fender, or both can be flashed, indicating "stop." This signal, although quite inconspicuous, attracts the attention of the driver in the rear by its loud buzzing and also by the swinging out of the red hand and the flashing of the red light. This signal does away with the necessity of swinging one's hand out the side of the car and taking it far from the controls or wheel where it should be. This indicator can be attached to any car. The case of the signal is of steel and the bracket is stamped steel A specially constructed magnet operates the swinging of the door outward. The external parts subject to rust nickeled, the finish of the lamp being baked black enamel.

The switch on the steering column is a ball switch, having four contacts and a neutral. This device can also be used as a rear headlight in backing about in the dark and as an emergency horn, also as a tail light in case of necessity.

You want your business to grow, don't you? "Building a Million Dollar Business," in the Merchandising Number next month, tells how one business was developed to big proportions.

Two New Fracto Specialties Exhibited

The Fracto Specialty Co., Inc., 161 Massachusetts Ave., Boston, Mass., exhibited at the 69th Regiment Armory two new specialties.. These are the Fracto Steering Wheel Grip and the Number Plate Holder, illustrated herewith. The first of these is a band of ribbed rubber that gives a good grip on the steering wheel. It will also help absorb the road shock. It is easily installed; is packed 12 in an attractive display box and sells at 50 cents per pair.

The Number Plate Holder is as well a brace for the front headlight. It consists, as the accompanying illustration shows, of a cross piece bolted to two ring members which clamp on the headlight doors of the

Fracto Steering-Wheel Grips

This device fits all wheels and is a band of soft ribbed rubber to give a good grip.

Fracto Number Plate Holder

This not only holds the license plate at the front of the Ford car, but braces the headlight one to another.

Ford car. This keeps the lamps straight, holds the number plate in the correct position and prevents undue vibration of the lamps. It has black enamel finish and sells at $1.50.

Jobbers! The Merchandising Number next month is for your benefit. It will contain articles on merchandising from YOUR standpoint—a perpetual inventory system—a jobber's sales contest which netted big results—the necessity of moving dead stock—collecting the small bills. Also several special articles on building up the dealer's business, with suggestions which YOU can use in helping YOUR dealers to make more money—for themselves and incidentally for you.

A New DAYLO Assortment of best selling styles

No. 1760

To help make "Double DAYLO Sales for 1920"

HERE is a brand new Daylo Assortment made up to help every Daylo Dealer put over his sales for a hundred per cent increase in 1920.

It contains 47 lights taken from the 12 best selling tubular styles. There is not a slow mover among them. It is an honest-to-goodness quick-turnover unit.

To get down to brass tacks, here are the prices:

List Price of Assortment 1760..	$76.55
Net Price to Dealers....	41 34
Profit on one turnover	$35 21

When the big 1920 campaign for Daylo is under way every live dealer can sell at least one of these units each month.

Join the 1920 Eveready Team-Workers and ride along to bigger Daylo business than ever before. Send now for circular of Assortment No. 1760 and the fine portfolio of Daylo plans, entitled, "Double Daylo Sales for 1920."

Coming soon: Another great Eveready Contest $10,000 in Cash Prizes. Details to be announced later.

AMERICAN EVER READY WORKS,
301 Thompson Ave.,
Long Island City, N. Y

EVEREADY DAYLO

Please send me Circular of Daylo Assortment No 1760 and your portfolio of Daylo plans, "Double Daylo Sales for 1920."

Signed .....

Street .....

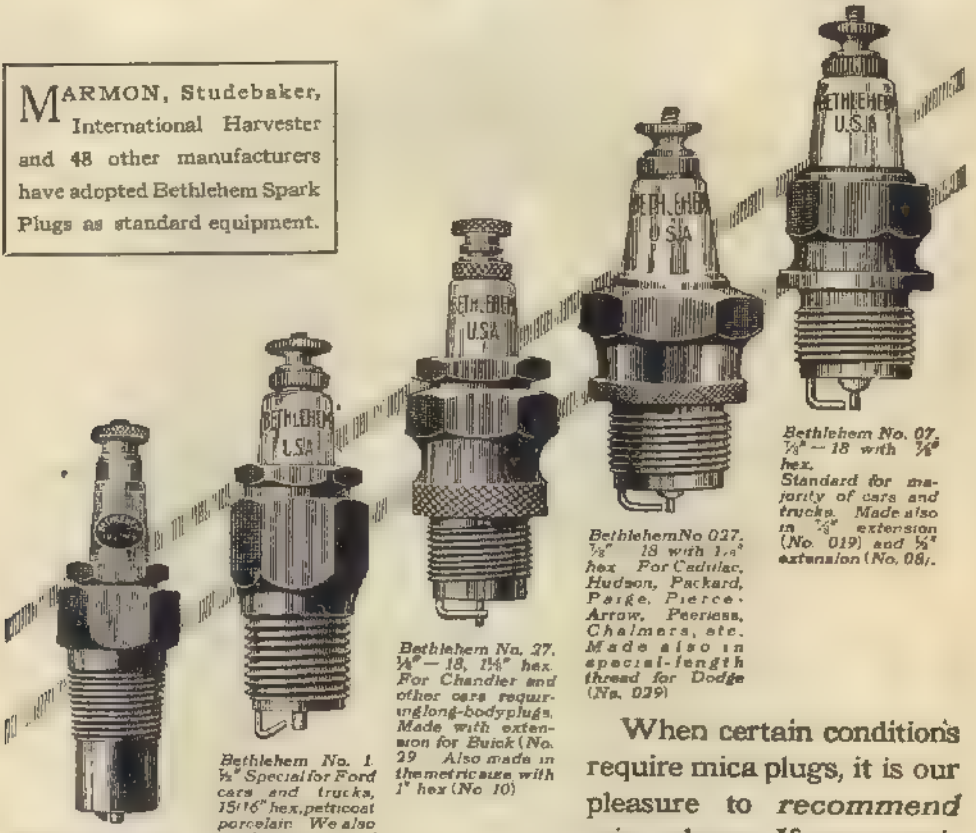
City ..... State .....

I { am / am not } at present carrying the Daylo line.

Address .....

The Right Plug for Every Purpose

MARMON, Studebaker, International Harvester and 48 other manufacturers have adopted Bethlehem Spark Plugs as standard equipment.



Bethlehem No. 92. ¾" long de Luxe Mica Tractor Plug, standard equipment International Harvester Co., also some types Hart-Parr and Case Tractors. Also made in ¾" size (No. 91) ⅞" 18 (No. 94), also ⅞" long (No. 95) Also mica plugs for cars, trucks and motorcycles.

Bethlehem No. 1. ⅞" Special for Ford cars and trucks, 15/16" hex, petticoat porcelain. We also make a special Fordson Tractor Plug (No. 12).

Bethlehem No. 27. ⅞" — 18, 1⅛" hex. For Chandler and other cars requiring long-body plugs. Made with extension for Buick (No. 29. Also made in the metric size with 1" hex (No. 10)

Bethlehem No. 027. ⅞" — 18 with 1⅛" hex. For Cadillac, Hudson, Packard, Paige, Pierce-Arrow, Peerless, Chalmers, etc. Made also in special-length thread for Dodge (No. 029)

Bethlehem No. 07. ⅞" — 18 with ¾" hex. Standard for majority of cars and trucks. Made also in ½" extension (No. 019) and ½" extension (No. 08).

When certain conditions require mica plugs, it is our pleasure to *recommend* mica plugs. If our experience and judgment dictate the need for porcelain plugs, we are equally glad to recommend *porcelain*. In other words, we are not bound to either type of plug, but sell you the type best suited to your requirements. Confer with us freely, without obligation.

BETHLEHEM SPARK PLUG CORPORATION

E. H. Schwab, *President*

Bethlehem, Pa.

SPARK PLUGS

BRISCOE

A Wonder Car!

The Verdict of Thousands Who Saw It at the New York Show

From both a mechanical and artistic standpoint the 1920 Briscoe has scored a distinct hit.

The clean-cut chassis, giving one the impression of a sturdy athlete stripped for action; the compact unit power-plant, emphasizing the features that have made Briscoe economy world-famous; the beautiful, distinctive body lines, worthy of the highest-priced car built—these and a score of other features demonstrated Briscoe dominance in the light car field.

See the three models—sedan, coupe and touring car. They are worth your careful study.

Briscoe Motor Corporation
Jackson, Michigan

The Canadian Briscoe Motor Co., Limited,
Brockville, Ontario

24-T)

The Leader of Light Weight Cars

The "Bristol" Aeroplanes

Travel by Air

THE time is not far distant when the consideration of transport will involve not only land and water routes, but the air as well, and if the problem to be solved is saving in time, there will be but one answer —the air.

"Bristol" Aeroplanes combine maximum speed with the utmost safety and endurance.

It is not too early to think about this new business *seriously*.

"Bristols serve every purpose"

WILLIAM G. RANELS

Representing

The British & Colonial Aeroplane Co., Ltd.

512 FIFTH AVENUE NEW YORK CITY

THE Detroit ELECTRIC

The Car Desired

To every one, we think, the fine electric is the desired car.

Perhaps it is because in grace of line, beauty of finish, and artistry of interior fittings the electric is unequalled.

Perhaps it is the superior cleanliness, ease of operation and safety of the electric.

Or perhaps it is that while some type of gas car is within reach of everybody, the fine electric is essentially the car of the discriminating minority.

This year's Detroit Electric is the supreme achievement of years of dominance. Every lover of a fine car should see it.

Detroit Electric Car Company

DETROIT MICHIGAN

The electric was the pioneer enclosed car—and it is still the best

SOSCo

Oil Cushion Tappet

Silent valves! What a relief to the driver of a car with overhead valves The end of the constant clicking and clacking and loose rattling that proved so annoying and monotonous. And all so easily accomplished.

YOU can earn big profits by doing this for your customers who drive Buicks, Oaklands, Chevrolets, Oldsmobiles and others, because people will gladly pay highly for comfort.

All you need to do is to lighten and place all parts in close contact (the rattling is caused by the wear on the parts set loose to permit of motor expansion) with the rocker arm tight on the top of the Oil Cushion Tappet. The spring at the top of the tappet relieves the pressure with its flexibility and the sound of the blow of the rocker arm on the tappet is *deadened by the cushion of oil* which is under this spring.

Send for our display cabinet which calls your customers' attention to the Oil Cushion Tappets either by window or counter display.

Soenksen-Spiers Engineering Co.

67 So. Broadway, Aurora, Ill.

THE SAYERS & SCOVILL CO. SAYERS CINCINNATI

1921 Sayers Six
Sayers Glendale Sedan

These two splendid cars were the talk of the New York and Chicago Shows. Sayers coachwork and finish were a revelation to all those who examined these models.

The Sayers & Scovill Company

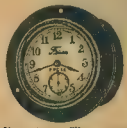
Established 1876

Cincinnati Ohio

AUTOMOBILE CLOCKS

The secret of the accuracy and durability of a keyless auto clock is the infinite exactness with which it is made. Micrometers that are the extreme of precision quickly detect the most minute variation in size. Each part is carefully tested. The plates, pinions, wheels—every part of the movement is solidly put together. Then comes a rigorous testing of the complete clock. When a clock has passed through the testing and inspection department, we guarantee that you will find it more than an "automobile clock" a scientific, accurate timepiece that is a mark of the distinctively up to the minute completely equipped automobile

FRISCO
THIRTY HOUR. STEM WIND. COWL TYPE



Has concealed winding stem. The movement and its case can be removed from the outer case when necessary to wind it. The outer case is attached to the instrument board by three nickel plated screws. The movement is an accurate thirty hour type strongly and firmly assembled, especially for automobile use. Finished in black and nickel. 2¾-inch white dial with black numerals.

Frisco No. 2 ..... **Each $5.50**

DENVER
EIGHT DAY. KEY WIND. COWL TYPE

A high grade lever type movement accurately regulated makes the Denver model an ideal auto clock. A white celluloid dial 2¼ inches wide is used in place of the silver dial usually found on auto clocks. Finished in black and nickel.

Denver ..... **Each $8.25**

MODEL 12
EIGHT DAY. RIM WIND AND SET. COWL TYPE

Just the proper size to install right in front of the wheel. The dial is only 2¼ inches in diameter, but is easily seen from the rear seat.

No. 12A—Black and nickel, with silver dial.

Each **$14.00**

No. 12B—All nickel, with black dial, luminous numerals and hands.

Each **$16.25**

EIGHT DAY. RIM WIND AND SET. COWL TYPE
MODEL 9

Equipped with a fine quick beat, accurate eight day movement that will resist any shock or strain and yet keep accurate time. Dial 2¾ inches in diameter.

No. 9—Black and nickel, silver dial. ..... **Each $15.50**

No. 9C—Black and nickel, with black dial, luminous numerals and hands ..... **Each $17.50**

POPOUT

Absolutely flush with instrument board. Will spring out just far enough to be easily wound and set. After you have wound or set it, press firmly against the face of the clock and when it has been pushed back flush with the instrument board a slight turn in a counter clockwise direction will lock the clock securely in place. Finished in black and nickel. Dial 2¾ inches. Black dial, luminous numerals and hands.

Popout ..... **Each $19.00**

AEROPLANE

A clock of this type and design was selected by the United States navy for use on hydroplanes during the war. It had to stand every kind of strain and shock—and it had to be waterproof. It is essentially an aeroplane clock, but it has proven exceptionally well adapted to automobiles. The case is black enamel with a nickel winding rim. The dial is black with luminous numerals and hands. You can tell the time easily and accurately in the dark.

Aeroplane ..... **Each $17.00**

The Waltham Automobile Clock

More Than a Quarter-Million Now in Use as Standard Equipment

Premier Model 6-D, 7 Passenger Enclosed Car Equipped With Waltham Automobile Clock

Model B-2

Because they are artistically cased to harmonize with the other luxurious fittings of the high-class enclosed car, and so marvelously constructed that neither rough roads nor sudden changes of temperature affect their precision, Waltham Automobile Clocks have been chosen as standard equipment for the splendid cars listed on this page.

Each clock has a jeweled eight-day movement with two main springs, and a winding indicator which flashes its red signal on the dial every seventh day as a reminder that the clock needs winding.

In case the car you select does not carry a Waltham Automobile Clock as part of its equipment, it will pay you to have one installed, because a Waltham will tell you the right time all the time.

List of Cars Carrying Waltham Automobile Clocks as Standard Equipment:

Apperson	Hollier	Owen-Magnetic
Argonne	Hudson Super-Six	Packard
Brewster	Jordan (enclosed cars)	Pierce-Arrow
Cadillac	Kissel	Porter
Cole	La Fayette	Premier
Cunningham	Leach	Rauch & Lang
Detroit-Electric	Locomobile	Studebaker
Dorris	Marmon	Willys-Overland
Franklin	Mercer	Winton

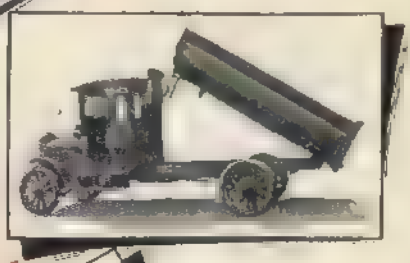
WALTHAM WATCH COMPANY, WALTHAM, MASS.

WALTHAM

THE WORLD'S WATCH OVER TIME

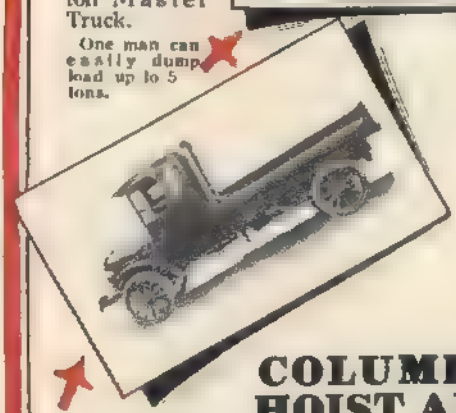
Showing Columbian Lightning Hoist and Dump Body mounted on Troy Trailer.

Note compactness and neat lines. Such a Columbian Combination will add efficiency to any fleet owner operating trailers.



Showing Columbian Lightning Hoist and all-metal Dump Body mounted on 3-ton Master Truck.

One man can easily dump load up to 5 tons.



Patents Pending

COLUMBIAN LIGHTNING HOIST AND DUMP BODIES

Showing Columbian Lightning Hoist and all-metal Dump Body mounted on Oneida Truck.

Note the little space the Hoist occupies between the Dump Body and back of driver's seat.

Will add efficiency to any firm using trucks, as it will aid them in unloading their loads quickly, thus saving both time and labor.

This Hoist fits any chassis, and occupies but 8¼ inches back of the driver's seat. One man can handle, with ease, loads of from one to five tons. This Hoist will elevate the body to an angle of from 30 to 50 degrees in *less than two minutes*

You don't have to smear this Hoist with oil or grease to make it operate, nor waste time in making repairs, as it is absolutely fool-proof. It is equal in every respect to a Power Hoist *minus the expensive upkeep.*

COLUMBIAN METAL BODIES are constructed of all-metal throughout, and they are built for service and durability. Columbian Metal Bodies are riveted only where acetylene welding is impossible. The result is a smooth interior body, loadtight, strong, durable and built to last a lifetime. Dealers never have had a better opportunity to make money on Dump Bodies and Hoists as today, and you can lay your foundation for a growing business by confining your efforts to COLUMBIAN EQUIPMENT.

Mail This Coupon Today
and it will be postage well spent

Columbian Steel Tank Company

"Tanks for the World" *Established in 1894*

1601-21 West 12th St. Kansas City, Mo.

Date.....

Columbian Steel Tank Company,
Kansas City Mo.

I am interested in the Columbian Lightning Hoist and Dump Bodies. Please mail me folder No. 78, prices and discounts.

Name .....

Address.....

City..... *State* .....

This sign makes YOU a unit of a big corporation

Because of the increasing demand for Wire Wheels, we are appointing factory representatives to look after this business for us.

Orders for Wire Wheels are being received daily from everywhere and we prefer to divert this business to our agents.

We know that the profits accruing to our agents from these sales are substantial enough to make good, whole-hearted representatives. Write us about your locality—a good reputation and service shop facilities are essential.

HOUK

Buick	Lexington
Cadillac	Marmon
Chalmers	Marmon
Chevrolet	Mitchell
Chevrolet	Moon
Chevrolet	Nash
Cole	Oldsmobile
Dodge	Overland
Elcar	Paige
Essex	Scripps-Booth
Franklin	Studebaker
Hupmobile	Stude
Hudson	Stude
Hupp	Velie
Kissel	Westcott
	Winton

HOUSE

Set of 5 House Wire Wheels 4 inner tube 1 hubcap hub cap wrench spoke nipple wrench one rub dust cover for spare wheel White Black Red color options.

For FORDS, $75.

For CHEVROLET 490 and OVERLAND Model 4, $90.

WIRE WHEEL CORPORATION OF AMERICA

(Successor to Houk Manufacturing Company)

1700 Elmwood Avenue Buffalo, New York

Direct Factory Branches and Service Stations:

NEW YORK—835 11th Avenue, at 57th Street
PHILADELPHIA — 223 North Broad Street
CHICAGO — 23rd Street and Indiana Avenue
DETROIT—11 Leland Street
LOS ANGELES — 1216 South Grand Avenue
SAN FRANCISCO — 1690 Pine Street

Exclusive Canadian Representative: Dunlop Tire & Rubber Goods Co

WIRE WHEELS

Columbia Six

It "Wears Well"

Like a Good Friend, You Value Your Columbia Six More the Longer and the More Intimately You Know It

After months and months of driving, when sun and rain have had their chance to injure your car's finish—you will still admire the beauty and flawless finish of Columbia Six coach work and design.

After thousands of miles of town and country driving, you will still find the same original *willingness* in the Columbia Six—the smooth, quick acceleration and power of the motor—the positive action of brakes.

These are facts because Columbia Six is founded on only true mechanical excellence, even to the smallest details. It is based only on those units which are recognized leaders in the automotive field. It is built only by the most expert designers and engineers.

It is a great satisfaction to find a man or woman who "wears well." It is extremely gratifying to find a car which is so "good clear through" that it shows no weak characteristics after long and intimate acquaintance.

COLUMBIA MOTORS COMPANY
DETROIT
U. S. A.

An Increasingly Profitable Sales Agreement

The Columbia Six Sales agreement is more valuable tomorrow than it is today.

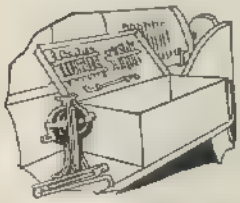
As a consequence, Columbia Six today is represented by men who are building permanently—not simply for a single year—but for years to come, and who are building, also, for permanently increasing profits.

If you are planning systematically and broadly for a valuable business and permanently increasing returns, you, too, will be interested in Columbia Six.

The Gem of the Highway

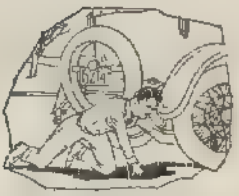
Rees Passenger Car Jack

This cutaway view of the Rees automobile Jack illustrates in general the mechanical principle embodied in all Rees Jacks. Capacity 4000 lbs. Operated from a standing position by its long folding handle. Retail Price $9.00, west of the Rockies, $9.50.



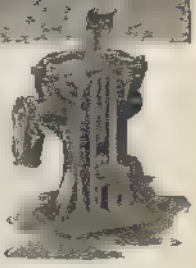
It Fits Readily in Any Tool Box

Keeps You Out of the Wet and Slush



Why Grovel in the Old Way

Model 21—A Ten-Ton Rees Double Worm-Gear Drive Jack Lifting Five-Ton Truck of the Gulf Refining Company.



REES
DOUBLE WORM GEAR DRIVE
JACK

Motor Truck owners are just as pleased with Rees Truck Jacks as motorists are with the Passenger Car Model Rees. In fact, many prominent manufacturers and operators of large fleets of trucks have adopted Rees Jacks as their standard lifting tool equipment.

Rugged construction is combined with proportionately light weight in Rees Jacks. This convenience and their giant lifting power are obtained through the unique double worm-gear drive principle of power application. Rees Jacks are great time savers, and are absolutely dependable in any emergency.

Jobbers –Dealers

Rees Jacks are so distinctly superior that every user talks about them. Every Rees you sell helps to sell others, and remember there is a complete line of Rees Jacks, a model for every jack need. If your territory is still open, there's a big sales opportunity for you in handling Rees Jacks. Write for complete information.

Exclusive Manufacturers

Iron City Products Company

Dept. 19. 7501 Thomas Boulevard

Pittsburgh, Pa.

Manufacturers of Rees Double Worm-Gear Drive Jacks for Passenger Cars, Trucks, Railway and Industrial Uses

The Very Life of Motors Depends Upon Proper Lubrication

AUTOMOBILE engines are very much like humans. In order to perform their daily functions properly, they must breathe freely. An engine is to an automobile what the heart and lungs are to humans. Imagine a man doing hard work with heart and lungs in poor condition.

CREW LEVICK MOTOR OIL

is the life-blood of sturdy motor cars

Because it assures a perfect film of oil between cylinder walls and pistons, it provides perfect lubrication.

CREW LEVICK MOTOR OIL is refined from pure Pennsylvania paraffin base crude. The finished product is the highest grade oil known for lubricating purposes. It lubricates perfectly all bearings, shafts, pistons or other parts; will not break down or gum under extreme engine heat. CREW LEVICK MOTOR OIL has behind it an experience of 57 years in every phase of lubrication.

CREW LEVICK CO.

(Subsidiary Cities Service Co.)
101 No. Broad Street
PHILADELPHIA, U.S.A.
Branches, Agencies and Dealers Throughout the World

CREW LEVICK
ESTABLISHED 1862 REG. U.S. PAT. OFF.

Why Customers Come Back

The dealer who sells quality products that give lasting service earns the grateful appreciation of his customers. Many of the reorders and returning customers are attributed by Blazer Dealers to the unfailing performance of this remarkable Spark Plug Line.

In the Long Henry they have a superior Ford motor spark plug that is specially constructed with an extension below the thread that carries the hot, fat spark deep into the mixture and through the dead gas. Its extremely long shell keeps the porcelain away from oil and heat, making it as near carbon proof as possible.

In the A. I. M. Auburn Mica Plug dealers can recommend a plug adapted for use on hot engines that have heavy-duty work. Their dependability is a proven fact. In the Blazer they have an extremely hardy Spark Plug with an unbreakable insulator, developed by our chemists for airplane motors.

Three leaders—all banner sellers. Stock up!

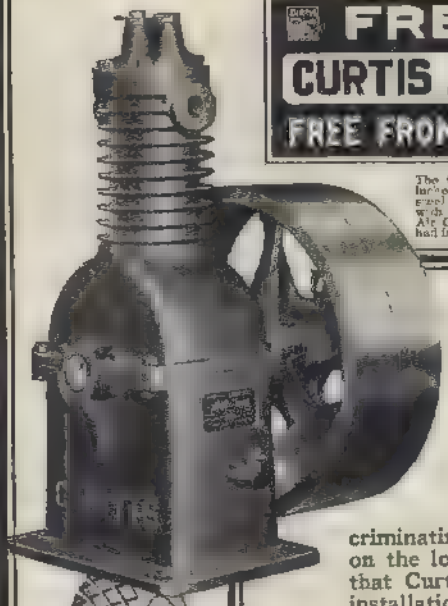
Auburn Ignition Mfg. Co., Inc.
Richmond Indiana

AIM
SPARK PLUGS
AIM
REG. U.S. PAT.
The Old Reliable Line

FREE
CURTIS AIR
FREE FROM OIL

The Curtis Sign is 10 x 14 inches, baked enamel on steel. Furnished FREE with every Curtis Garage Air Compressor—cannot be had in any other way

STYLE "Y"
New This Year
One fourth horse-power outfit for direct pumping. Designed for private garage or small public filling station
Geared Only
A. C. or D. C. Motor



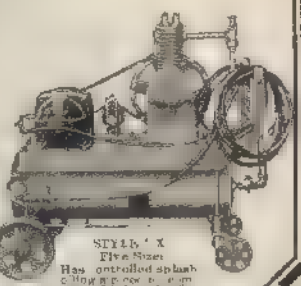
Curtis Free Air Service Brings You New Patrons and Increased Profits

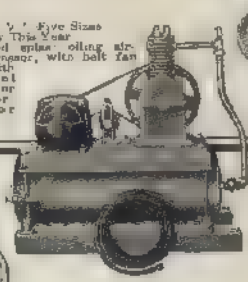
It is generally recognized that compressed air to fill tires frequently carries oil and that this oil has a deteriorating effect on inner tubes. For this reason motorists are discriminating in their use of "free air service"—and are on the lookout for the Curtis sign because they know that Curtis Air is free from oil. It may be that the installation of the CURTIS outfit will be the beginning of a new era in profit-making for you.

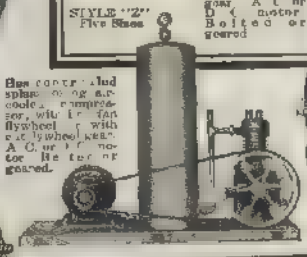
Curtis Air—Free From Oil

Curtis Air Compressors, through a patented construction, prevent oil from getting into the air line—therefore the air delivered is clean, pure and free from oil. The many other exclusive points of superiority, together with the simplicity, sturdiness and dependability of Curtis Compressors make them the popular choice everywhere.

With the two new outfits illustrated—Style "Y" and Style "V"—the Curtis line is now complete, offering a suitable compressor to meet every requirement. Ask your jobber or write us for illustrated literature describing the different sizes and types of outfits.


STYLE "X"
Five Sizes
Has controlled splash oiling compressor, with belt fan flywheel or with cut flywheel gear A. C. or D. C. motor. Belted or geared


STYLE "V"
Five Sizes
New This Year
Has controlled splash oiling air-cooled compressor, with belt fan flywheel or with cut flywheel gear A. C. or D. C. motor Belted or geared


STYLE "Z"
Five Sizes
Has controlled splash oiling air-cooled compressor, with belt fan flywheel or with cut flywheel gear. A. C. or D. C. motor Belted or geared.

CURTIS PNEUMATIC MACH'Y CO.
1577 Kienlen Ave. St. Louis, Mo.
Branch Office:
530-D *Hudson Terminal, New York City*

Curtis Pneumatic Machinery Co.
1577 Kienlen Ave.
St. Louis, Mo.

Gentlemen:
Please send me full details on Curtis Air Compressors—your proposition and prices.

Name . . . . . .
Address . . . . . .
Jobber's Name . . . . . .
Address . . . . . .

Jiffy

Two Leaders

Numbers 200 and 350 represent the finest perfection attainable in Jack construction. The dealer who sells them gives his customer full value—excellent material and the product of careful workmanship.

Number 200 Jiffy Auto Jack is made of Solid Steel and Annealed Iron. It is suited for work on light cars but like all Jiffy Jacks it has a range of capacity up to ¾ ton. Height is ten inches. It raises to 15½ inches, and retails for $2.25, a popular price.

No introduction is needed for the well-known "Indestructo" Jack, No. 350, so called because of its extreme durability and absolute dependability. It has the same short fulcrum which is a distinguishing characteristic of all Jiffy Jacks and lifts its load with one short downward stroke; its capacity is 2000 lbs. Retails for $3.75.

Carry the leaders in the leading Jack Line in stock at all times.

If your jobber cannot supply you, write us direct for detailed information.

THE JIFFY JACK CO.

Cleveland, Ohio

JACKS

DENBY
MOTOR TRUCKS

DEALERS!

There are big opportunities in merchandising Denby trucks; maybe there's some open territory in your section. A letter to the factory will post you.

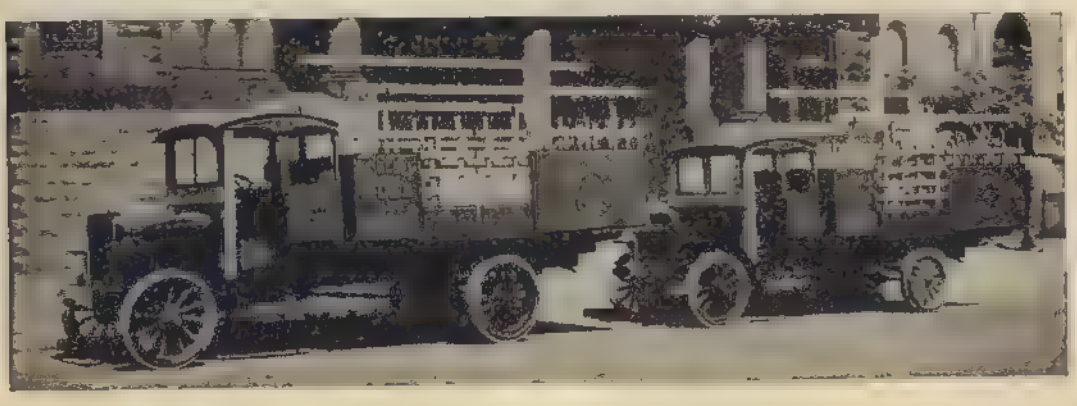
In big city and small—for use on city streets or in interurban hauling—storage and moving companies prefer the Denby.

With bulky, top-heavy loads and big van bodies, whatever the road or grade, they go unfalteringly about their business, steadily earning dividends for their owners.

Backing this dependability is an economy of fuel and tires, and a low upkeep expense, that makes the total cost of transportation very low.

Denby Motor Truck Company—Detroit

(62)



Stewart SPEEDOMETER FOR FORD CARS

$12.50

Complete Your Ford Car!

Surely you recognize the need of a speedometer. You can no more get along without it than without your watch. It is the watchdog of your mileage; the auditor of your motoring expenses.

The fact that 95% of all cars are equipped with the Stewart means it is the best one for you.

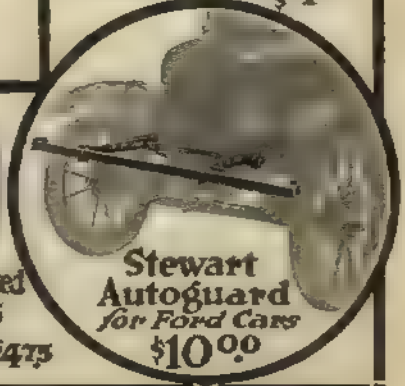
Take off that weak buzzer horn and put on a Stewart Warning Signal—either motor-driven or hand-operated type. A Stewart Autoguard and Searchlight are safety-first necessities that your Ford should have.

Stewart-Warner Speedometer Corp.
CHICAGO, U. S. A.

Stewart Searchlight $6.50
A New Model for $4.75

Stewart Motor Driven Warning Signal $6.50
A De-Luxe Model for $10.00

Stewart Hand Operated Warning Signal $3.75
A De-Luxe Model for $4.75



Stewart Autoguard
for Ford Cars
$10.00

DIETZ LAMPS

Reliability on the Road

DIETZ "Champion" Cold Blast Motor Truck Lamps possess the merit of reliability in hard service and give a light more powerful than will any other Kerosene Motor Lamps.

"Champion" Lamps have a fine optical lens and the oil pot lifts in and out of the base through the doorway so that it cannot be lost on the road.

The Dietz "Royal" is a smaller counterpart of the Dietz "Champion" Lamp. The "Royal" is a popular lamp for light trucks of lesser capacity.

Send for Catalog

R. E. DIETZ COMPANY, NEW YORK

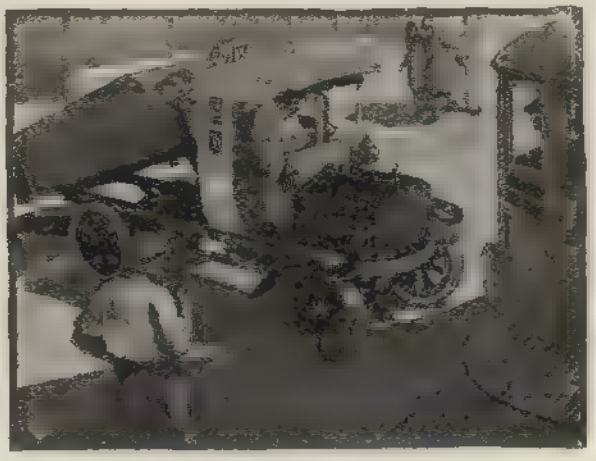
MAIN OFFICE, 60 LAIGHT STREET

JAMES BARNES, Sales Manager, Motor Truck Lamp Dept.
CARTER BUILDING, ROCHESTER, N. Y.

DIETZ "CHAMPION" MOTOR TRUCK LAMPS

HAUL from HALL

THE HALL "SHORT SPECIAL" TRUCK

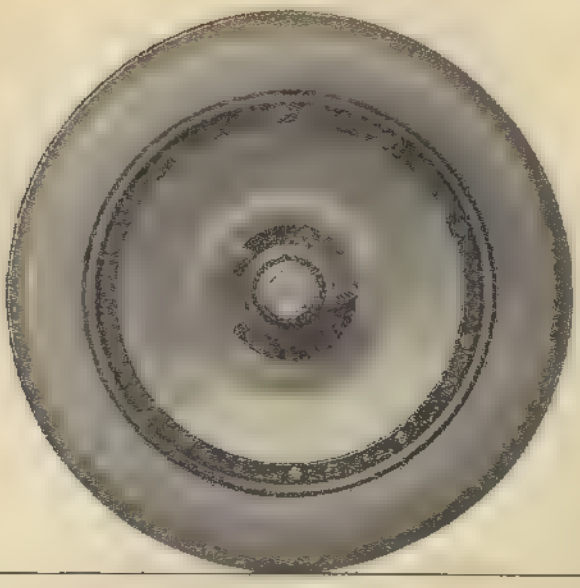


Announcing
the New Hall "Short Special" Truck
Especially Adopted for the Needs of Congested City Traffic

The Hall "Short Special" meets an actual and vital demand. It fills a need in the work of city trucking that puts it in a class of its own. It reduces time of loading, haulage, delivery and consequently increases hour-mileage and lowers cost per ton haul—all points that spell increased service and operation economy for truck owners of every class.

Among the outstanding advantages of the Hall "Short-Special" truck in city work, is the fact that it will take the shortest street and alley, turns easily and can be backed up to curbs on streets used by street car lines without interfering with the regular stream of traffic.

Write for folder, which gives complete details and specifications. Address Sales Manager, No. 5 Roby St., Detroit, Mich.



The Motor Car Spring and a Sectional View of the Disteel Wheel

Facts You Should Know About the Wheels of Your Motor Car

A motor car wheel should be so designed and constructed that road shocks cannot be transmitted directly to the bearings and the delicate mechanism of the car.

In the illustration at the top of this page is shown a motor car spring. That spring is thicker, heavier at the center than it is at the ends.

The spring is tapered.

It is tapered because it *is* a spring. The taper distributes and diffuses the strains.

The spring is dished.

That means it is curved slightly, which also serves to distribute and diffuse the strains.

Another example — In precisely the same way as the muffler of your car breaks up, diffuses and nullifies the noises that come from the exhaust of the motor—the wheel of the motor car can and must break up, diffuse and nullify the road shocks, before they reach the hub, the axle and the bearings of the car.

The spring is made of steel.

Disteel Wheels are made of steel.

That Disteel Wheels add immeasurably to the beauty and distinction of good motor cars is, of course, universally accepted. However, from the viewpoint of mechanical excellence and in conclusion of the foregoing statements, we ask you to remember that—

Disteel Wheels are Tapered, Dished and Made of Steel.

Wheel Talk Number One

Being the first of a series that will appear at regular intervals in this publication. In this series we propose to tell some simple basic truths about motor car wheels for the information of motor car owners and for the development of more economical and more comfortable motoring. We propose to outline, not only the principles of the scientific designing, engineering and construction of motor car wheels, but also those essential features which the car owner can and should demand of his wheel-equipment. If by these wheel talks we assist in raising the standard of wheel construction, we shall feel that we have been abundantly repaid.

Detroit Pressed Steel Company, Detroit, U. S. A.

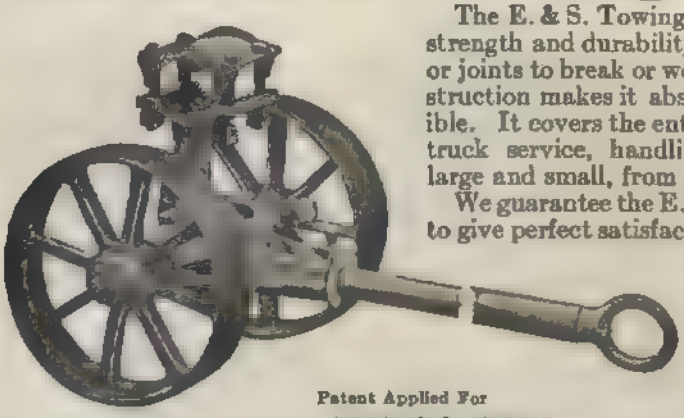
Disteel Wheel Plant, Cabot Ave. Automobile Frame Plant, Mt. Elliott Ave.

New York: 1846 Broadway at 61st St. Chicago: 732 Michigan Avenue
Boston: 926 Boylston Street San Francisco: 326 Rialto Building

DISTEEL WHEELS

The Wheels That Complete The Car

The E. & S. Towing Truck



The E. & S. Towing Truck is a giant in strength and durability, no working parts or joints to break or wear. Its simple construction makes it absolutely indestructible. It covers the entire range of towing truck service, handling all cars, both large and small, from the front or rear.

We guarantee the E. & S. Towing Truck to give perfect satisfaction, and authorize the jobber to accept the return of any that do not meet the approval of the purchaser.

Patent Applied For

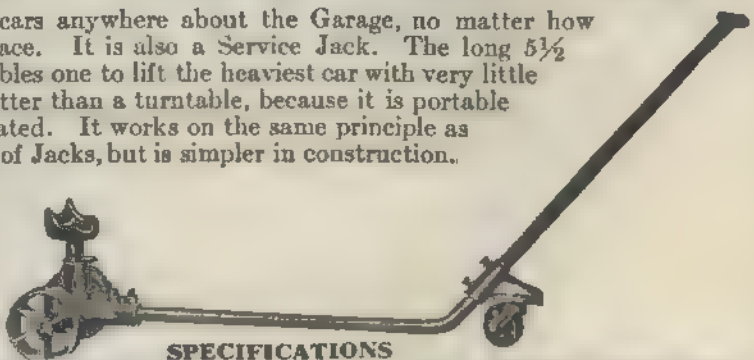
SPECIFICATIONS

14 inch wheels equipped with roller bearings. Made throughout from refined malleable iron and steel; four inch tires; width of truck, 18½ inches; 120 inches, extra heavy towing pole. Height adjustment up to 16 inches. Weight, 145 pounds

The New E. & S. Junior Jack

For moving cars anywhere about the Garage, no matter how cramped the space. It is also a Service Jack. The long 5½ foot handle enables one to lift the heaviest car with very little effort. It is better than a turntable, because it is portable and easily operated. It works on the same principle as our larger type of Jacks, but is simpler in construction.

Will handle cars from front or rear.



SPECIFICATIONS

5½ foot lifting handle. Post adjustment to any height up to 15 inches. Diameter wheels 6½ inches ¾ inch carbon steel axle. Weight 60 pounds. Made of best iron and steel obtainable

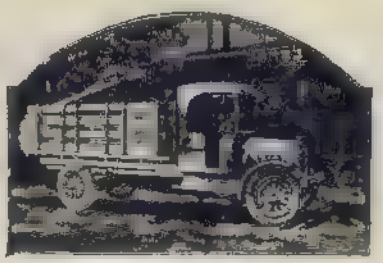
It Turns Them in Short Space

List Price Only $15.00

Puts Them Behind Post

The Ellis-Smith Mfg. Co., Inc.
Elmira, N. Y.

GARFORD



Nothing so clearly demonstrates sound engineering and right manufacturing as the ability of Garford Motor Trucks to give

—Low Cost Ton-Mile

Garford

Lima, Ohio

TRUCKS

The Tenth Year Federal

Another FEDERAL

The TENTH YEAR FEDERAL TRUCKS

This is the sign of the "Tenth Year Federal" a sign significant of ten years of success in every field of truck transportation

Every dealer will realize what "The Tenth Year Federal" signifies in the kind of prestige that makes for a dealer's success.

Behind that phrase are ten long years of service to the truck buying public. Expressed in that phrase are all the efforts of our engineering department, our sales department, our advertising department—all the efforts of our distributors and dealers—all the good performance of every one of the $50,000,000 worth of Federal Motor Trucks distributed throughout the world—every day of every year for ten years.

The Tenth Year Federal! It signifies success, the success of hundreds of Federal dealers and distributors, the success of thousands of Federal owners—all founded to greater or to less extent upon the success of the Federal truck.

But that phrase "The Tenth Year Federal" signifies something more than mere material success—it signifies firm adherence to manufacturing ideals and ideals of fair dealing with the public and with Federal dealers. The good will which the general public holds for Federal is found intensified in the loyal attitude of Federal dealers toward Federal.

The Federal Motor Truck Company is proud of that attitude—proud that it can deserve such loyalty as it finds among its dealers and distributors. That loyalty is one of the big reasons why there are so many Federals throughout the world today. And in that loyalty is to be found one big reason why Federal will continue to increase and multiply much more quickly in the future, even than it has in the past.

FEDERAL MOTOR TRUCK COMPANY
DETROIT MICHIGAN

FEDERAL

One to Five-Ton Capacities

HAYES *Wire Wheels*

It is really but a step from the preference for wire wheels, now become so general, to the more decisive preference for the Hayes.

Makers and owners of higher priced cars first began to single out the Hayes, because of certain very definite superiorities. Now you see this wheel on cars of all types.

Motor car manufacturers very evidently have convinced themselves of the great value of these unusual features.

Of those who use wire wheel equipment, the great majority regularly specify the Hayes.

Even casual observation in your own locality will reveal the breadth of preference for the Hayes.

The fact is that your own local conditions are really a reflection of the Hayes standing all over America.

Many owners will have their cars equipped with Hayes wire wheels during the period of winter layup or overhauling and painting.

Wire Wheel Division **Hayes Wheel Company** *Jackson, Michigan*

SALES AND SERVICE STATIONS:

Motor Product Sales Co.
806 E. Pike St., Seattle, Wash.

Hayes Wire Wheel Sales Corp.
842-7th Ave. & 148 W. 55th St. N. Y. C

Evans & Laurie Co.
1090-2 Commonwealth Ave., Boston

Samuel Scott
2038 Ranstead St., Philadelphia, Pa.

Brigman Motor Co.
491 Whitehall St., Atlanta, Ga.

Siggins Sales Company
106-8 E. Milwaukee Ave., Detroit

Miller & Woodward
3751 Bigelow Blvd., Pittsburg, Pa.

Chicago Wheel & Rim Co.
2010-12 Wabash Ave., Chicago, Ill.

Auto-Marine Service Co.
1027 Nicollet Ave., Minneapolis, Minn.

Interstate Auto Co.
206-8 E. Superior St., Duluth, Minn.

Motors, Equipment & Tractor Co.
1310 S. Grand Ave., Los Angeles, Cal.

H. V. & C. R. Carter
724 Van Ness Ave., San Francisco, Cal.

Automotive Supply Company
1558 Broadway, Denver, Colo

The Three Captains Co.
700 S. Ervay St., Dallas, Texas

World's Largest Builders of Wheels Wire, Wood, Steel

Haynes Light Six Motor

Haynes Light Twelve Motor

THE HEART *of the* NEW HAYNES
HAS AN ABUNDANCE OF VELVETY POWER

6 Cylinder Touring Car—7 Pass.
12 Cylinder Touring Car—7 Pass.

6 Cyl. Roadster—4 Doors, 4 Pass.
12 Cyl. Roadster—4 Doors, 4 Pass.

6 Cylinder Coupe—4 Passenger
12 Cylinder Coupe—4 Passenger

6 Cylinder Sedan—7 Passenger
12 Cylinder Sedan—7 Passenger

6 Cylinder Limousine—7 Passenger

... and tires and spare wheel ... standard equipment on all 6 ... cylinder cars. Cord tires and ... spare wheels standard equipment on all 12 cylinder cars. ... prices ... equipment, and an extra charge ... delivery.

HAYNES

America's First Car

THE Haynes motor has always been an integral part of the Haynes automobile—ever since Elwood Haynes, more than twenty-seven years ago, created America's first car. A large part of the enviable reputation of the Haynes has been built upon the stamina and dependability of the famous Haynes motor. The Haynes motor is manufactured by experts in the Haynes factories.

Haynes engineers, profiting by twenty-seven years of experience, have from time to time developed improvements to the motor.

Whether it is the Light Six or the Light Twelve motor, it is designed and perfected for its special functions. To secure the fullest power from the gasoline used, to transmit that power most effectively to the driving gear, to respond promptly and surely to the demands made upon it, to live and endure under all manner of usage, and constantly to give that confident, velvety power which is its distinguishing factors—these are the outstanding characteristics of the famous Haynes motor.

The abundance of velvety power of the famous Haynes motor is the keystone of the four factors of character to be found in the new Haynes—beauty, strength, power and comfort. The Haynes car is 90% Haynes made in the mammoth Haynes factories which are devoted to the exclusive manufacture of fine automobiles.

A beautifully illustrated brochure, and prices, will be sent on request. Address Dept. 250.

The Haynes Automobile Company, Kokomo, Ind., U. S. A.

This advertisement copyrighted, 1920, by The Haynes Automobile Company

1893 THE HAYNES IS AMERICA'S FIRST CAR—1920

The Stimulating Influence of the New Season

THE distinctive Jackson line for 1920 presents at a medium price many of the finer features of the highest priced cars, with the result that it has won instant recognition in every motor car assemblage.

Each model reveals that lithe trimness which fairly breathes power, strength, flexibility, and comfort. You'll sense it in the touring car of graceful modishness; the rakishly handsome sport model which excites interest because of its daring difference, and the ultra-advanced sedan of quiet distinctiveness and refinement.

The Jackson line offers one of the real impelling business builders of the year. Full particulars on request. Touring Car, $2150; Sport Car, $2650; Sedan, $3150.

JACKSON MOTORS CORPORATION
Motor Car Builders for over 16 years
Sales Dept. 18, Jackson Motors Bldg
JACKSON, MICHIGAN

KISSEL *Custom-Built* **Six**

MOTORDOM'S Closed Car Premier Event—distinguished interpretations of custom-built skill and technique in which the exclusiveness of the Kissel open models is emphasized. Mounted on the Kissel custom-built chassis with the Kissel custom-built motor.

De Luxe Brochure "The Aristocrats of Motordom" on request

KISSEL MOTOR CAR CO.

Hartford, Wisconsin, U. S. A.

"Originators of the ALL-YEAR Car"

RACINE
Mitchell
WISCONSIN, U.S.A.

The Future Style Trend

Forecast by New Mitchell Design

These new Mitchell Sixes bring to motoring America its first accurate example of a coming style tendency. They now reveal the ideal toward which creators of motor car designs have long been working.

Striking reforms are seen in every detail. There is complete harmony throughout.

Viewed from any angle—from inside or out—the effect is impressive.

The long, yacht-like sweep of the body is made doubly pleasing by an extended moulding and bevel crown. Note the graceful slanting lines of radiator, hood, windshield and doors. See how they express the gliding sensation one experiences when riding in these fashionably modern cars.

Inside the body will be found the handwork of master craftsmen. The manner of applying the upholstery, for example, shows the matchless care employed. Again in the comfortable roominess is the art of the master designer apparent.

Last season's Victory Model has definitely proved the advantages of Mitchell's many mechanical improvements. But we were not quite content with that success, and now offer many additional betterments in chassis and motor.

Several important refinements have been made, and accuracy in manufacture has been much improved. These features and the new bodies complete the motor car sensation of the year.

Profitable opportunities are open to aggressive dealers. We invite correspondence relative to these new cars and the Mitchell sales plan.

THE MITCHELL MOTORS COMPANY, INC., RACINE, WISCONSIN

5-Passenger Touring Car
3-Passenger Roadster 5-Passenger Sedan
4-Passenger Coupe

A *New* Closed Car That Fills a New Need

THE Lex-Sedan is the *first* car with the *body* built for the top; as perfectly matched a unit in appearance as the built-up type, yet it is—

Hundreds of pounds lighter; more economical on tires and fuel, and—

Flexible; no more of the usual strains, twists, and top-heaviness with resultant danger of damage and breakage, therefore—

More practical; permitting greater use on all kinds of roads.

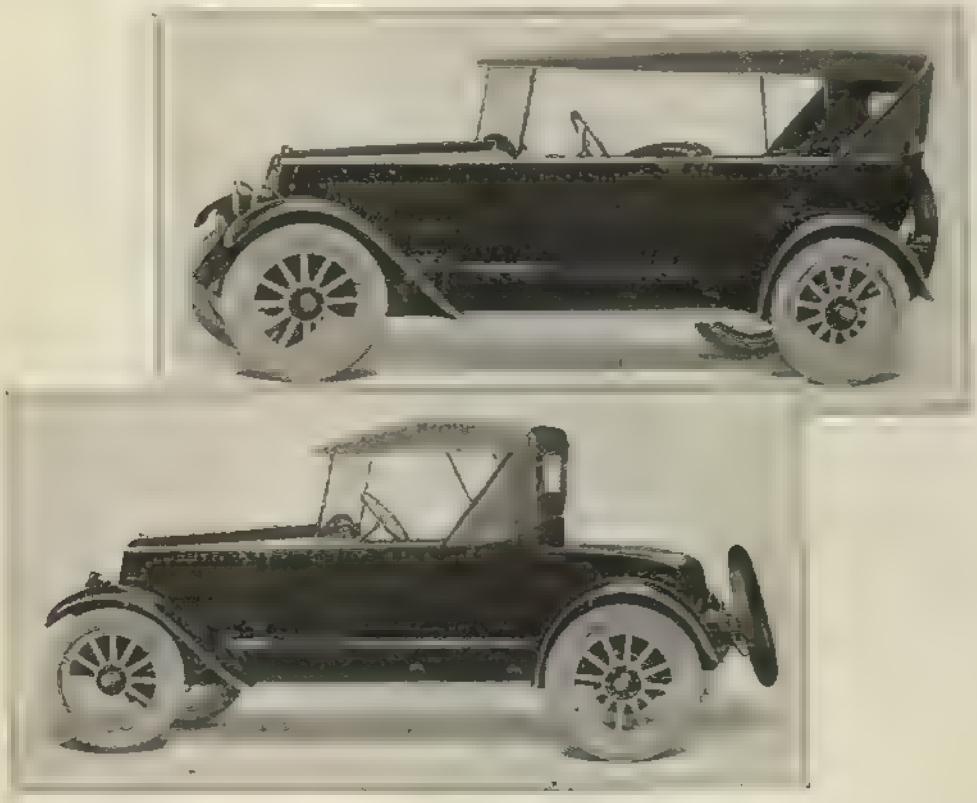
Lexington is able to *originate* this wonderful improvement because top, body and chassis are built practically under one roof and one direction. Dealers are invited to write us about representation.

Lexington Motor Company, Connersville, Indiana, U. S. A.

NEW CARS AT THE SHOWS

Mitchell Has New Bodies on Victory Chassis

Few changes have been made in the chassis of the Mitchell Victory model. The exterior appearance is entirely different, however, owing to the adoption of a new line of bodies. The radiator, hood and door edges have been given a backward slant, parallel to the angle of the windshield, and even the radiator filler neck has been placed at the same angle. There are two rows of louvres in the sides of the hood to improve cooling.



Tilted Radiator on New Michell Model

The slanting of the radiator, hood and door edges on the new Mitchell Touring Car and Roadster models adds a touch of distinction. The chassis is the same as that of the Victory model announced sometime ago.

Minor changes in the chassis include the location of the speedometer drive on the transmission, the mounting of the radiator on a separate frame cross member, the use of lighter and more compact generator and starting motor units, a change in the starter gearing to give more power for cranking the engine, the adoption of an improved type of battery terminal, a new lock switch for the ignition and the use of a new type of grease cup at various points in the running gear. In other respects, the chassis remains similar to that described in the June, 1919, issue on page 250.

Velie 34, a New Light Six

Sensing the demand for smaller and lighter cars capable of operating economically on low grades of fuel, the Velie Motors Corp., Moline, Ill., has developed a new light six, known as the Model 34, which was shown to the public for the first time at the New York Show. This model is an entirely new production throughout, with a wheelbase of 112 in. and 32 x 3½ in. tires.

The engine is special Falls 6-cylinder of 3⅛ in. bore by 4¼ in. stroke, with valves located in a removable cylinder head. The crankshaft is an extra heavy balanced three bearing type. The camshaft and the generator shaft are driven by helical gears in the front of the crankcase. The latter unit is so designed that pistons can be removed

LIPMAN

MODEL 102.

MODEL 103.

FREE AIR SERVICE STATIONS

THE LATEST IS

OVERHEAD SERVICE

CLEARS THE TOP OF CAR AND IS ENTIRELY

AUTOMATIC

SIMPLY PULL DOWN THE HOSE AND ATTACH TO TIRE

NOTE THE LARGE, EASILY-READ AIR GAUGES

A PERMANENT LOW COST ADVERTISEMENT

WRITE FOR PRICES

MODEL 104

106

107

LIPMAN PUMP WORKS, BELOIT, WIS., U. S. A.

MASTER TRUCKS

—the most desirable line of Motor Trucks on the market

THERE are two hundred different companies manufacturing Trucks in this country, yet most of the business is done by only ten. Theirs are the Trucks in real demand; live, successful propositions, proven; profitable to buy and to sell. Prominent among them—forging faster to the front each year—is the Master.

A complete line, built by a company with unlimited financial resources; selected highest-quality units in models practical down to the last machine bolt; tested and found superior in hard service—with extra power, and in balanced oversize throughout; backed by a liberal sales policy and with prompt deliveries from a modern factory—this is the Master story.

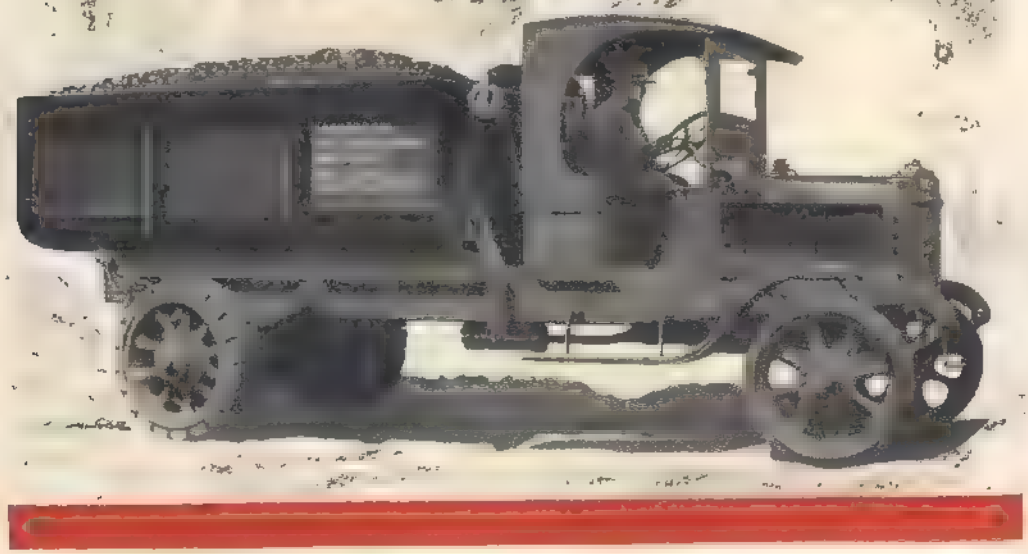
Compare engine power, chassis dimensions, construction. Compare *mass* of parts—and *quality* of parts. Compare performance in owners' hands. Learn the experience of prosperous dealers who are making the sales and making money—and draw your own conclusions.

We invite correspondence from high grade merchandisers.

MASTER TRUCKS, INC.
Chicago, U. S. A.

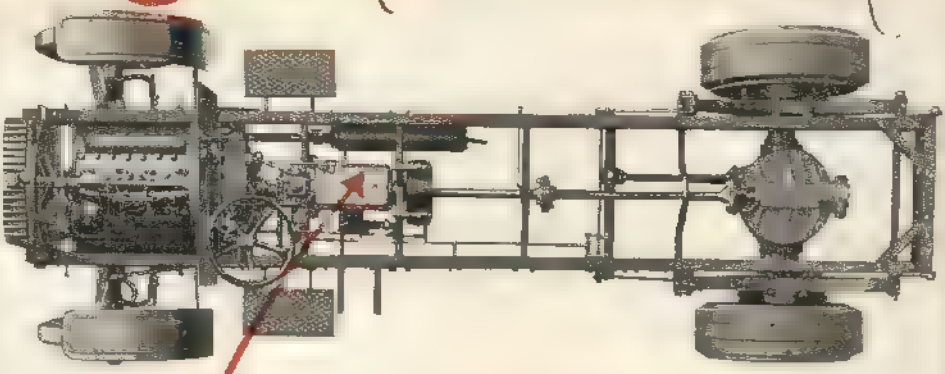
Built of the best

BUDA—the Engine
TIMKEN—Axles and Bearings
BROWN-LIPE—Clutches and Transmissions
ROSS—Steering Gears
SPICER—Universals
"DETROIT"—Springs
PARISH & BINGHAM—Frames
PRUDDEN, and SMITH—Wheels
MASTER—Design and Construction
1½ Ton to 7½ Ton Chassis



The SCHACHT New Ten Speed Transmission.

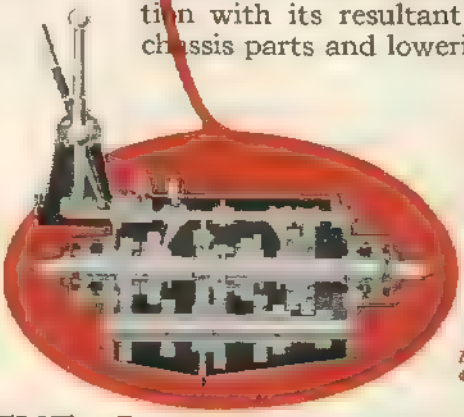
with Five Ton Truck



ALTHOUGH the "Schacht" ten-speed transmission may properly be termed "two transmissions in one" since it actually doubles the range of the average four-speed transmission, this is accomplished without sacrificing simplicity in construction and without complicating its operation.

Twenty to twenty-five miles per hour on high gear is easily attained over a good level road with a five-ton truck, which at the same time has a low gear reduction sufficient to negotiate any kind of a road or grade wherever the wheels can secure traction.

Although the road speed has been doubled — engine speed has been reduced, eliminating excessive vibration with its resultant wear and tear on engine and chassis parts and lowering fuel consumption.



A NEW era in motor truck efficiency is at hand. Progressive dealers will be quick to take advantage of the opportunity to secure one of America's oldest and most progressive truck lines —with the greatest selling possibilities ever afforded by any make of truck.

Wire your territory reservation now

New York Branch
422 E. 54th Street

Chicago Branch
2021 Michigan Avenue

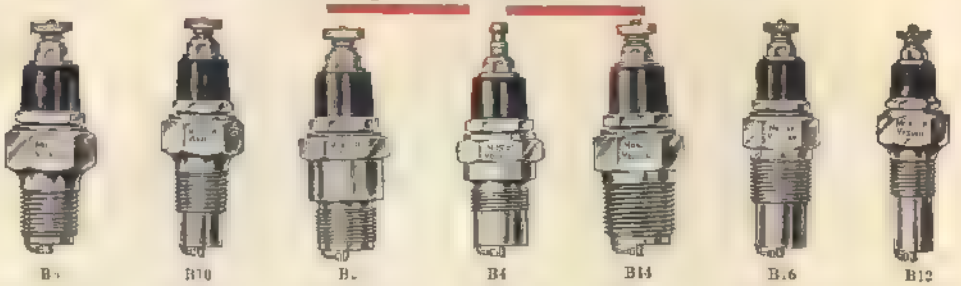
THE G. A. SCHACHT MOTOR TRUCK CO.
CINCINNATI, OHIO

Dealers Write for 1920 Prices

Jobbers Write for 1920 Prices

Tractor and Heavy Duty Plugs

Large Hex—Mica Core



B2 — ⅞ inch Standard

B10 — ½ inch Long

B8 — ½ inch A. L. A. M.

B4 — ⅝ inch Long

B14 — ¾ inch Pipe Thread

B16 — ¾ inch Long Pipe Thread

B12 — ½ inch Extra Long

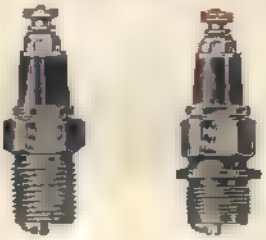
A large hex, Mica core spark plug, made with a baffle plate, see sectional view below illustrating construction and features. Built in two pieces, can be easily taken apart for cleaning.

Especially recommended for tractor work and for all high powered cars, trucks, etc.

B 10 recommended for Fordson, B 16 for Titan and Mogul, B12 for Waterloo Boy and new Hart-Parrs; B8 for Avery and E-B. Packed 100 to a box.

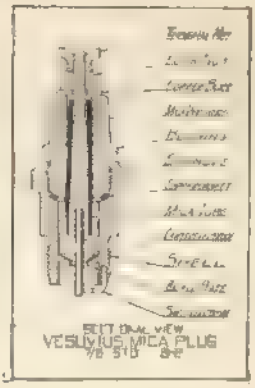
Factory No.	DESCRIPTION	Price Each	Factory No.	DESCRIPTION	Price Each
B 2	⅞" A. L. A. M.	$2.00	B 6	⅞" Extra Long	$2.00
B 4	⅝" Long	2.00	B12	½" Extra Long	2.00
B 8	½" Standard	2.00	B14	¾" Standard	2.00
B10	½" Long (Fordson)	2.00	B16	¾" Long (Titan Mogul)	2.00
B18	Metric	2.00	BC	Center Core	1.25
	Price in Canada				$2.50

Small Hex

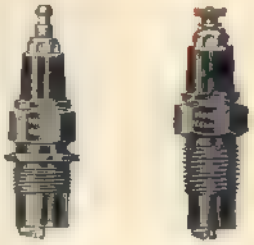


A8 — ½-inch Standard

A2 — ⅜-inch S. A. E.



Mica Core



A4 — ⅝-inch Long

A10 — ¾-inch Long

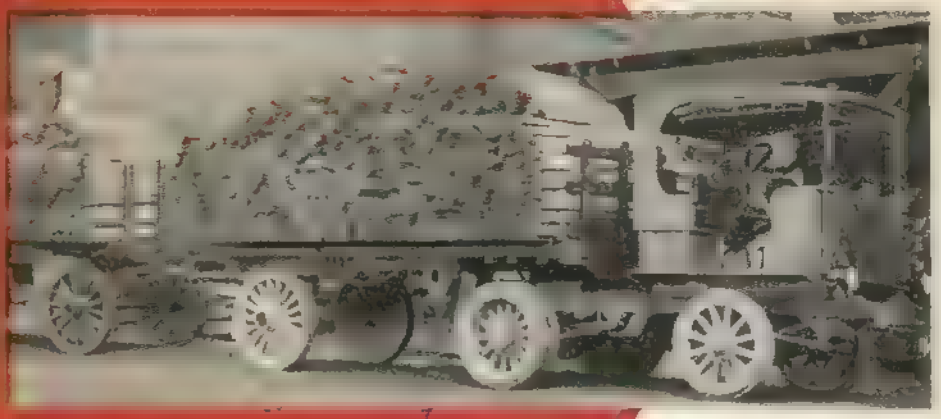
Same construction throughout as the large Tractor plug, only made with small hex. The A2 and A4 are ideal S. A. E. plugs. As recommended for Olds, Oakland and Nash A18 recommended for Essex. Also made in Aircraft Special, see list below. Packed 100 to a box.

Factory No.	DESCRIPTION	Price Each	Factory No.	DESCRIPTION	Price Each
A 2	⅜" S. A. E.	$1.50	A18	Metric	$1.50
A 4	⅝" Long	1.50	A20	Metric Long	1.50
A 8	½" Standard	1.50	A22	Mosler Liberty Aircraft Plug	2.50
A10	¾" Long	1.50		*Price in Canada*	2.50

A. R. MOSLER & CO. NEW YORK, N. Y.

WATSON

Haulage



A Complete Line of Haulage Equipment

IT IS a distinct advantage for the User and the Dealer to do business with a house big enough to manufacture a complete line of haulage equipment.

Industrial Concerns, Merchants and Farmers, having their own private transportation problems, naturally are anxious to adopt the right haulage system—be it trucks, tractors, trailers or what not.

With its four sizes of Trucks, its Tractor and Trailers, Watson is able to give unbiased advice concerning the best equipment suited to the needs of each particular case. Watson is selling NOT simply a UNIT, but a SYSTEM.

The line is flexible and covers all needs from that of a small, speedy delivery truck, up to that of a fleet of mixed mastodons of heavy hauling.

Write for particulars.

MOSSBERG

ALL STEEL
WRENCHES AND TOOLS

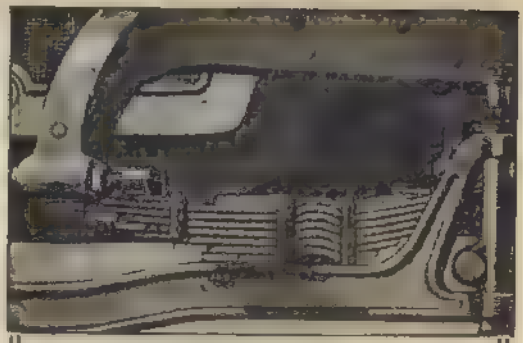
Leadership in the manufacture of tool equipment has been gained and maintained through adherence to principles of manufacture which insure to the user of Mossberg products the utmost in value and service.

Illustrated here are our "H" Board of All Steel Indestructible Socket Wrenches—a very attractive assortment of varied sizes and fittings; our 6-inch and 12-inch All Steel Socket Wrenches, and All Steel Speed Brace. Also the K 9-inch Adjustable Wrench.

FRANK MOSSBERG CO.

WRENCHSMITHS FOR 20 YEARS

ATTLEBORO, MASS. U.S.A.



Lasting Service and Satisfaction

Strains and twists, jars and bumps—every conceivable hardship of the road that puts a burden on the springs of passenger cars or trucks—have been successfully met by Titanic Springs, and proven their superiority to the old fashioned center bolt, or nib type.

At the center—the danger point of all other springs—Titanics are strongest—so strong, in fact, that they are guaranteed forever against center breakage, the very place where three out of four of the ordinary type fail—thus they combine safety with maximum riding comfort. In ten minutes to three hours you can get Titanic Springs anywhere. See *Chilton's* or *Auto Trade Directory* for list of distributors.

There's a Tuthill Spring for every make of car

Tuthill Spring Company

Established 1880 **760 Polk Street, Chicago**

Fle-X-met Hose *and* Accessories

"Fle-X-met" H. A. Tubing is used for Exhaust on Ace Motor Truck

Fle-X-met is Chosen for Dependability!

THE American Motor Truck Co., of Newark, Ohio, chose Breeze "Fle-X-met" No. H. A. Tubing for the exhaust on their new motor truck because they *know* that "Fle-X-met" can be depended upon to deliver perfect service under the most severe conditions.

Packed with asbestos, rubber or substitutes. Fle-X-met H. A. is the ideal tubing for exhaust or carburetor hose, as it will not kink or collapse, is unaffected by vibration, heat, cold, gases or moisture.

The Breeze Fuel Strainer (sectional view shown) is a simple and inexpensive little device for installation in the fuel line. Maintains efficiency of the fuel. Prevents stopped line and many carburetor troubles. Composed of only two pieces. Nothing to get out of order.

The Fle-X-met Line of Metal Tubing is most complete. Made in any size and length, of any metal, for many uses in the automotive field—such as Covering for Stationary and Movable Wires; Speedometer Shafts and Casing; Air Hose, etc.

Write on your business letterhead for the most complete catalog ever published on the subject of Flexible Metal Hose and Accessories.

BREEZE MANUFACTURING CO.

254 South Street

NEWARK, FLE-X-MET, NEW JERSEY

The Touch OF Distinction

which makes one of two cars the natural choice although both apparently look the same is often found in the upholstery.

WILSON'S Curled Hair

will make upholstery luxuriously comfortable, lasting. Years of hard usage have no effect on its resiliency.

Try our woven Curled Hair Pads, cut to dimensions for automobile seats and backs. An exclusive, patented process weaves the sterilized curled hair onto burlap, forming a perfect shock-assimilating cushion which will not shift, mat down or get bunchy.

Send blueprints of seats and backs and we will mail you our quotations with samples.

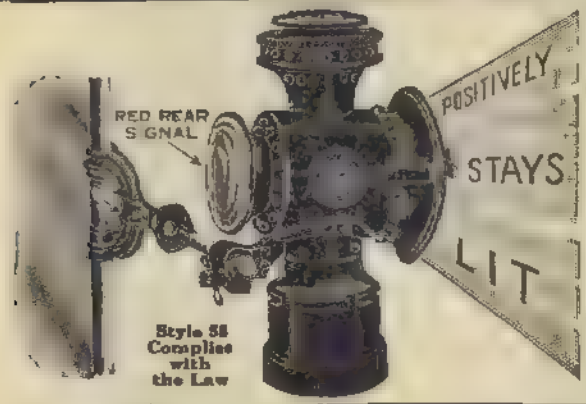
Write for our booklet
"Comfort in Upholstery"
Address Dept. ATJ 2

"The mark WILSON & CO. you remember"

CHICAGO

The Neverout TRADE MARK Automobile Accessories

Known Everywhere — Used Everywhere



Style 58
Complies
with
the Law

Auto Parking Light

For attaching to windshield

BURNS KEROSENE

Made throughout of the best drawn brass, riveted and clinched

White lens in front and large red semaphore in rear. Red and green side lights.

Height 6½ in. Weight 12½ ozs.

Nickel plated or gun-metal finish.

The Bracket in illustration is furnished with each lamp for right or left-hand side of windshield or on bows of top.

Neverout Auto Parking Light

(ELECTRIC)

For attaching to windshield

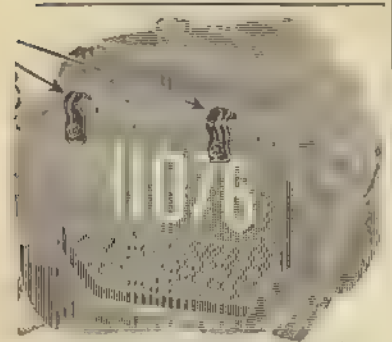
White semaphore in front and red signal in rear. Can be used on either right or left-hand side. Equipped with "on and off" switch. Complete with Mazda bulb, 6 v, 2 c. p. double contact, unless otherwise specified. Furnished in gun-metal or nickel plate.

Electric Tail Lamp, No. 70

Combination socket fits any lamp bracket, adjustable for either right or left side. Fitted with special Neverout Reflectors.

Glass at one side for illuminating license tag is not soldered in frame, but is a heavy glass cylinder encircling the entire lamp interior. Complete with Mazda bulb, 6 v 2 c. p. double contact, unless otherwise specified. Finished in gun-metal or nickel plate. Style No. 52 has combination license tag holder.

Pat 1-24-17



License Bracket, No. 95

Rod clamps attach front number, with or without slots, to any size rod between headlights. Stamped from heavy-gauge steel. Attractive black enamel. Packed one set in a box

Patent License Bracket, No. 9

Fits water filler on majority of cars. Attaches directly to water-filler tube

No. 9½—Small size for all cars with fillers of less diameter than two inches. Same style as No. 9.

Front Tag Clips, No. 97, for Fords

Made of heavy gauge steel. Easily attached to front of Ford car, directly under the radiator, by removing and replacing the two nuts on the spring clips. Handsomely finished in black enamel, baked on. Packed one set in a box.

WRITE FOR PRICES AND ELECTROS FOR CATALOG

ROSE MANUFACTURING COMPANY

910 ARCH STREET PHILADELPHIA, PA.

OAKLAND OWNERS REPORT RETURNS OF FROM 18 TO 25 MILES PER GALLON OF GASOLINE AND FROM 8,000 TO 12,000 MILES ON TIRES

THIS NEW OAKLAND SENSIBLE SIX COUPE IS POWERED WITH THE FAMOUS 44 HORSEPOWER, OVERHEAD-VALVE OAKLAND ENGINE

OAKLAND
SENSIBLE SIX

OAKLAND dealers are selling more than motor cars. They are selling reliable transportation of the most expeditious and economical type, at a price uncommonly low in return for the long and thrifty service that the Oakland Sensible Six invariably renders. They have, in the new Oakland four door Sedan and the businesslike Coupe, two models of unmatched value, affording maximum utility and delivering maximum service at the very minimum of cost. They are handsome and completely appointed cars, carefully and sturdily built in accordance with the most approved principles of modern automobile design. Their ready sale is a continual source of profit and satisfaction to dealers who are fortunate enough to hold the Oakland franchise. There is still some good Oakland territory open.

MODEL 34-C TOURING CAR, $1195; ROADSTER, $1165; FOUR DOOR SEDAN, $1325; COUPE, $1295. F.O.B. PONTIAC, MICH. ADDITIONAL FOR WIRE WHEEL EQUIPMENT, $65

OAKLAND MOTOR CAR COMPANY
Pontiac, Michigan

When Springs Break

put on

VULCAN QUALITY AUTOMOBILE SPRINGS

IN STOCK FOR YOUR CAR

This is the VULCAN service sign

The Sign of Profit

This sign stands for America's highest quality replacement-spring.

This Sign brings thousands of motorists, every year, to the doors of over 7000 dealers who display it.

This sign puts large and ever-increasing profits into the cash-drawer of every one of these dealers.

Why Not Hang It Up Today?

Write for our special proposition.

Jenkins VULCAN Spring Company

Factory

RICHMOND, INDIANA

Branches

Atlanta, Ga. Minneapolis, Minn.
Boston Mass. Reading, Pa.
Dallas, Tex. St. Louis, Mo.
Kansas City, Mo.

This Spring Rack FREE with first order for 12 or more VULCAN springs.

PHELPS

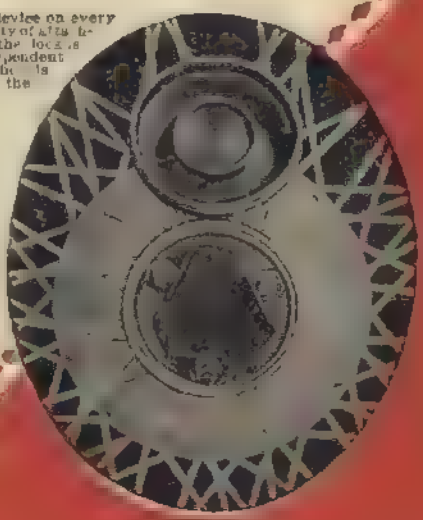
DEMOUNTABLE WIRE WHEELS

THE demand for wire wheels is established. As a Jobber your problem is which Wire Wheel is best suited to the needs of your customers. Always carry an adequate stock and consistently recommend PHELPS Wire Wheels.

They are so graceful in appearance that they enhance the beauty of any car, and in construction their superiority is evident after a critical inspection. It is the only wire wheel manufactured not using a threaded inner hub construction.

The famous Phelps Drive used on rear wheels is herewith shown with the interlocking teeth that mesh in motion, providing a positive drive that prevents slipping or excessive wear.

This illustration shows the new locking device on every Phelps Wheel, that provides absolute security of this attachment—the only wire wheel made where the lock is attached directly to the inner hub and independent of the action of the outer hub while the wheel is in motion. Wheels cannot come off on the Phelps type of construction



Our special jobbers' proposition is a winner. It means a liberal margin of profit. Write now for 1920 Jobbers' Selling Terms.

Phelps Manufacturing Company
Columbus, Ohio

Phelps
DEMOUNTABLE

Each suit packed in dust-proof carton
Packing in cartons adds EXTRA value to Protexall Suits

They sell more readily

People like to purchase goods in boxes. They get fresh, clean stock. They also feel that boxed goods are better, because the maker values them highly enough to give them the protection of boxing. Carton goods are distinctive. Unboxed goods are ordinary. The carton *adds actual value* and salability to Protexall Suits.

Stock stays clean easier to handle

Dealers find great advantage in the individual dust-proof Protexall Cartons. They're easy to handle in the stockroom and in the store. The boxes look neat on the shelves. The box tells the size instantly without handling. The stock is kept clean and the sizes are readily kept separate.

The Carton Typifies the Care and Value that Goes Into PROTEXALLS

They're made of finest grade Government Khaki, cut roomy, with *special* SPRING-BACK *feature* which prevents binding across chest, back and seat. Keeps them comfortable after washing. Protexall gives long, satisfactory wear. Quite the best thing of their kind.

Ask for nearest dealer's name if you don't know him

DEALERS: Write your nearest jobber for catalog and details of the Protexall Proposition.

PROTEXALL COMPANY
Abingdon, Illinois

Pierce Governors

ALWAYS LINKED WITH THE BEST MAKES OF MOTOR TRUCKS

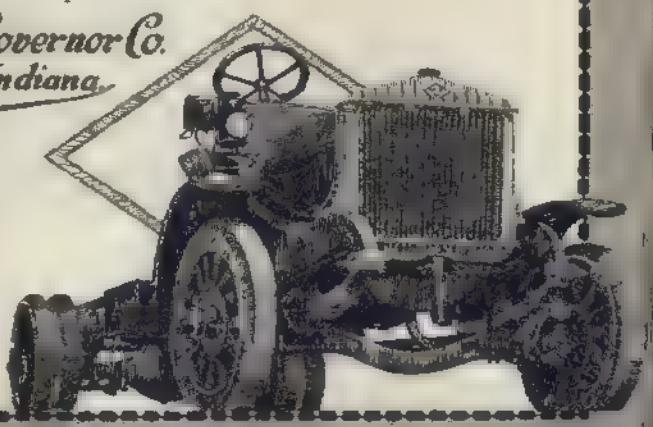
THE Diamond T is only one among one hundred and three prominent makes of Motor Trucks on which Pierce Governors are standard equipment.

Truck manufacturers who let quality and not price guide them in the selection of units for their trucks, do not buy governors until their Engineers have given the different types the most gruelling and exacting competitive tests possible.

As a result of such tests, more Truck Manufacturers are today using Pierce Governors than all other makes of governors combined. Pierce Governors are superior *—always.*

The Pierce Governor Co.
Anderson, Indiana

WORLD'S LARGEST GOVERNOR BUILDER



Large photograph Goodyear Cord Tire after nearly a year of hard hauling service for Indiana Oxygen Company, Indianapolis. Insert Goodyear Cord equipped truck of the 10 many unit users cylinder in Company yard

Copyright 1920, by The Goodyear Tire & Rubber Co.

GOODYEAR

"Gasoline, Sir?

Here is Quick Service!"

This is the message of the Rapidayton for the passing motorist

The Standard color of the Cut No. 25 Rapidayton Pump is red. For a slight additional cost we will paint them any color you choose.

Like the taxi man in front of the big Metropolitan Hotel, but in a much more dignified manner, the Cut No. 25 Rapidayton Pump hails the passing motorist, informing him that yours is an up-to-the-minute garage where he can obtain perfect gasoline service in a minimum of time.

Its bright red color, its trim, lithe lines, its thoroughly business-like appearance, its mechanical perfection, make the Cut No. 25 Rapidayton a real pump and a sales-puller for any garage that installs it.

Rapidayton

THE SPEED PUMP

But better looks and more perfect mechanical details are not its only virtues; the Rapidayton is also faster—30 per cent faster than any other pump on the market.

Ordinary five-gallon pumps require at least 16 strokes of the pump handle to dispense five gallons of gas. The Cut No. 25 Rapidayton requires but 12 strokes—ten forward and two quick return.

There are likewise many other features you will welcome, many of them exclusive. For instance, there is easy access to valves and piston, cork insulated cylinder, improved hose draining valve, machine-cut gears and rack.

You will want to become better acquainted with this Cut No. 25 Rapidayton Quick Return Stroke Gasoline Pump. Write and we will forward our catalog and bulletins.

The Dayton Pump & Mfg. Co.

Main Office and Works: **Dayton, Ohio**

New York City, 30 E. 42nd St. — Detroit, 310 Book Building — St. Louis, 1003 Syndicate Trust Bldg.
Wilmington, Del. — Atlanta, Ga. — San Francisco, Cal.
Kernersville, N. C. — Huntington, W. Va.
Canadian: Fairbanks, Morse & Co., Montreal, Canada

NEW EQUIPMENT, PARTS AND SUPPLIES

New Spring Seats for Cars or Trucks

The Sagless Auto Seat incorporates a novel construction. It is stated by the maker, the Sagless Auto Seat Co., Inc., 2210 S. Wabash Ave., Chicago, that it will outwear ordinary seats. The passengers ride

Sagless Auto Seat

This illustration shows the construction of the sagless seat, which can be had for any make of car or truck.

practically upon a shock absorber and are held in suspension. The seats for Ford cars are carried in stock. The prices for the front seats are $10; front seats divided are $12 and the rear seat is $12. The accompanying illustration will show the construction of one of these seats.

Valve Silencer for Buicks

A new device to reduce the noise from the overhead valves on the Buick car when they become worn is being made by the Newton Manufacturing Co., Plainville, Conn. The noise is generally due to play or side-slap of the rocker arms, which is taken up by this simple device. Slotted brass collars are placed on the ends of the rocker arm pins, over the cotter pins, which are not removed. The arms of the silencer press against the collars by spring pressure, as shown in the accompanying illustration. This holds the rocker arms against the bracket, allowing them to oscillate freely, but reducing the noise.

"88" Motor Oils

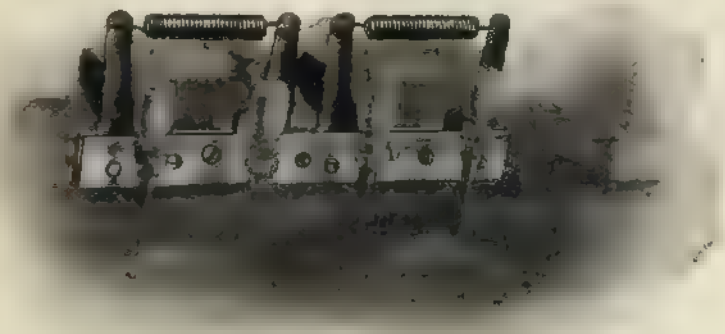
The "88" line of motor oils and greases covers "88" Motor Oil, "88" Gear Compound and "88" Cup Grease. These are being marketed by Motor Oils, Inc., 56 E. Randolph St., Chicago. The "88" motor oil is for use in the engine and is stated to have excellent lubricating qualities, to be pure and clean, and to contain no sediment. The "88" Gear Grease is of such a consistency

"88" Motor Oil for Use in Engines

In addition to the "88" Motor Oil is manufactured the "88" Gear Grease and the "88" Cup Grease.

that it forms a coating over the gears and bearings to provide lubrication. It is a semi-liquid and has no artificial body or coloring, or anything that will reduce its lubricating value. It is sold in five-gallon pails at $2.50.

The "88" Cup Grease is an excellent lubrication for cold surfaces, such as spring joints, steering knuckles, rod bearings, fan bearings, etc. It comes in one-lb. cans and five-lb. pails, selling per pound at 35 cents and 25 cents, respectively.



Valve Silencer

This illustration shows a new device to reduce the noise from the overhead valves when they are worn, on the Buick car.

Another Reason for Selling Reflex Spark Plugs

—another reason which means sales and quick turnovers—the above illustration.

The massed carbon on the *plate* signified heavy work and lubrication. The clean *points* of the plug signify unfailing power in *spite* of such operating conditions. "—and the plug was still good after 24 months' service," writes the motorist.

Reflex No-trouble ignition for your customers, stimulated by Reflex advertising and real dealer helps, and a proposition which nets you *profit*, are three of the reasons why you should drop a card for information today.

The Reflex Ignition Company
1357 West 106th Street
Cleveland, U.S.A.

REFLEX SPARK PLUGS

KEEP THE CAR ON THE GO!

This 5 ton Rowe speed truck on Pneumatic Cord tires is designed to operate at a speed of 20 to 25 miles an hour without injury to either load or truck, and fills a definite long-felt want.

Dealers:

Eight years of constant truck production, a mammoth plant of the most modern design and construction, and greatly increased productive facilities, enable us now to consider a few new dealership applications.

The Rowe line of trucks is complete, ranging from 2 to 5 tons and priced from $3000 to $4900, permitting a generous margin of profit to the dealer.

Your territory may be at present unassigned, so we suggest that you get in touch with us at once for full particulars.

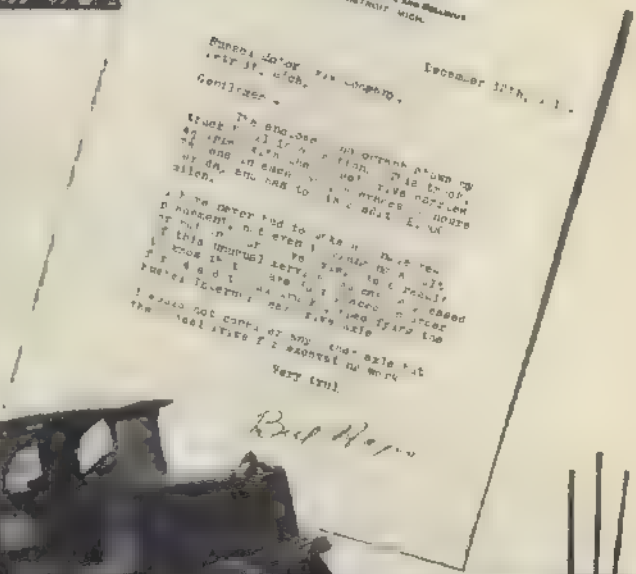
Rowe Motor Mfg. Co.

Lancaster, Pa.

THE above illustration shows the mammoth excavation of the new General Offices of the General Motors Corporation in Detroit. It is the largest single excavation in the world.

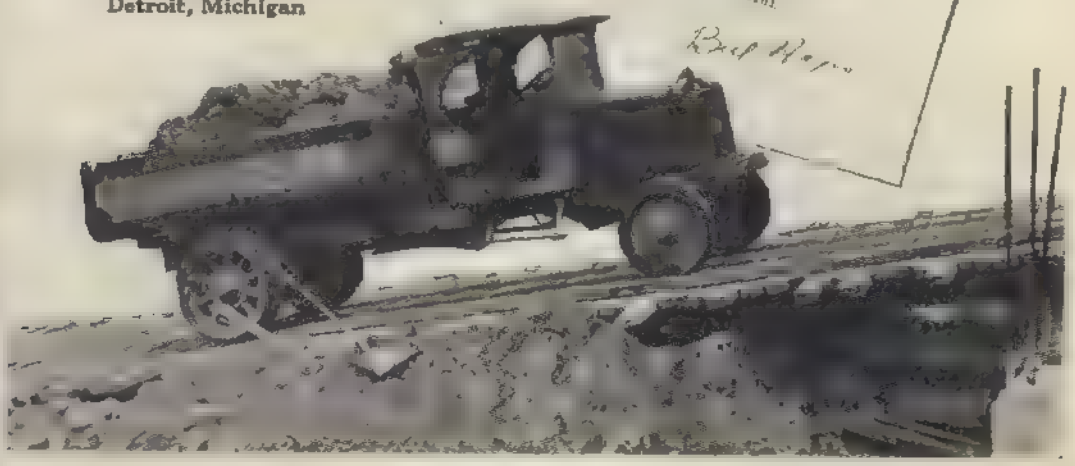
Bill Hayes, America's master excavating engineer, who completed on schedule time, this big undertaking pays tribute to the Russel Internal Gear Drive Axle in the accompanying letter.

Russel Motor Axle Company
Detroit, Michigan


BILL HAYES COMPANY

December 11th, 1

Very truly



Makes a Ford Run Like a Six

Saves Its Cost in 60 Days

SCOE

CARBURETOR

For Ford, Maxwell, Briscoe and Dort Cars

We want dealers to handle a carburetor that never fails to prove its superiority on the first demonstration.

The market for the *SCOE* carburetor is tremendous. It will idle a Ford without a tremor or a miss at six miles an hour.

It increases its speed and power with all the "pep" of a six. Its economy is almost unbelievable.

Two moving parts perfect the operation of the *SCOE*. Their action depends upon the volume of air passing into the carburetor, and on gravity.

As this force never varies, the mixture is exactly correct under all atmospheric conditions, once the initial adjustment is made. To make it more attractive for you to demonstrate the superiority of the *SCOE* Carburetor, we ask you to try it out on our 30-day plan.

When you receive the carburetor, remit half the net. Test its performance for 30 days. If satisfied, send us the balance. If not, we will return your money.

Send in this coupon today. We believe it will open your eyes to the possibilities of a bigger carburetor business than you have ever known.

Briscoe Devices Co.
Pontiac, Mich.

Address _____

Name _____

Send trial carburetor for _____ car at dealer's price.

I will pay $4.25 C. O. D.—$4.25 in 30 days if satisfactory. If not satisfactory, I will return, and you will refund original payment.

The Sign *of Service*

Ahlberg Service is Not Merely Delivery of Ball and Roller Bearings

AHLBERG SERVICE

Means quick delivery plus complete satisfaction and a sureness of getting what is best for you.

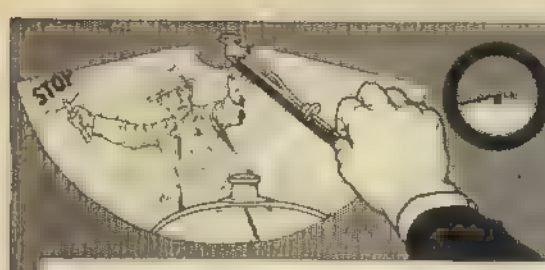
Try it when you need Ball, Roller or Special Bearings and prove it for yourself.

AHLBERG BEARING CO.

317 E. 29th Street Chicago, Ill.

BRANCHES:

Atlanta, Ga.	Philadelphia, Pa.
Boston, Mass.	Portland, Ore.
Brooklyn, N. Y.	Pittsburgh, Pa.
Cleveland, O.	Omaha, Nebr.
Detroit, Mich.	Providence, R. I.
Kansas City, Mo.	San Francisco, Cal.
Los Angeles, Cal.	St. Louis, Mo.
Minneapolis, Minn.	Memphis, Tenn.
New York, N. Y.	Cincinnati, O.



OUTLOOK
WINDSHIELD CLEANER
$2.00

Sell the Best Known Cleaner!

OUTLOOK is not only the best cleaner but the best known cleaner. It has been in use so long as to have a thoroughly established trade among satisfied users. Now extensive advertising is making it still better known. Dealers are concentrating their efforts on Outlook because it fills a real need, because it has a demand established and because a satisfactory profit can be made by pushing it.

Get in touch with your jobber ***today*** for prices. This is an all season seller but there's no use missing business right now when sales are easiest of all!

THE OUTLOOK COMPANY
5671 Euclid Avenue, Cleveland

Ought to be Legal Requirement

Many dealers say "The law should compel the use of windshield cleaners." It's coming some day! In the meantime certain far-sighted dealers will be skimming the cream off the trade. Why not be one of them? Now is the time to make your profits!

Feature the Outlook

Put the Outlook Cleaner [illegible] stock. Call it to your customers attention. Feature it [illegible] the window every stormy day. Put [illegible] effort behind it that you would put behind any live line and you'll find it turning your capital at a mighty pleasing rate! Have you an Outlook on your own car?

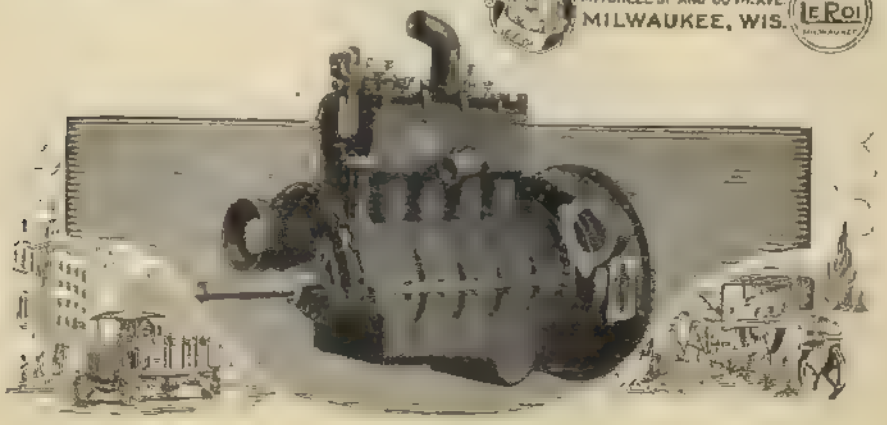
LE ROI the Little Giant of a Motor

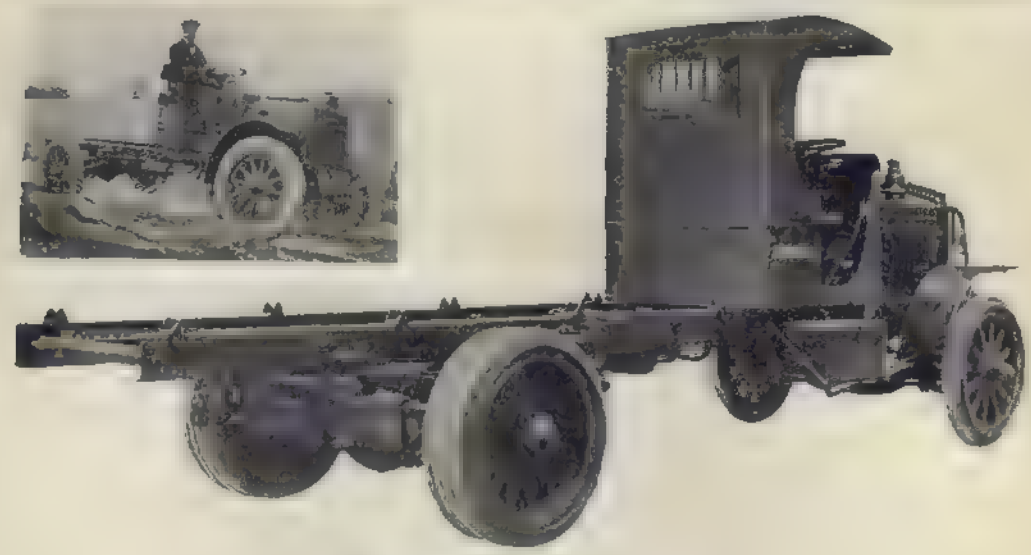
Four-cylinder passenger cars will always predominate. Even in the present age of "Sixes," "Eights" and "Twelves" more than 3¼ times the combined makes are Four-Cylinder Cars.

The LeROI MOTOR will always be a factor in Four-Cylinder Engine production. Its dependability has been established for years in more than twelve distinct fields. Its general mechanical excellence stands as a quality mark for any manufacturer who uses it.

The LeROI MOTOR is light weight for its power, extremely compact, well engineered and well built and particularly free from service trouble, whether on passenger car, truck or tractor.

LE ROI COMPANY
MITCHELL ST AND 60TH AVE.
MILWAUKEE, WIS.
CABLE LE ROI





flexibility

The continuous shocks and twisting strains to which motor trucks are subjected when traveling over rough, guttered, worn down roads never reach the more delicate, vital parts of Selden flexible, shock-absorbing trucks. These vibrations are entirely absorbed by the new Selden method of frame construction.

Not a rivet is used in the construction of the new Selden models. S. A. E. bolts are used throughout; all joints are of a flexible type that prevents sudden jars and jolts from inflicting serious damage; and well placed spiral springs offer still further protection. The methods of suspension of the motor and radiator, too, are such as to provide abundant protection for these sensitive parts.

Even a careless driver, who never turns a grease cup, can not seriously injure a flexible, shock-absorbing Selden Truck—all the less accessible joints are fitted with graphite-impregnated self-lubricating bronze bushings.

All these and many other distinctive features of Selden Trucks combine to make them trucks of extra long life and low maintenance cost.

Write for "Transportation"

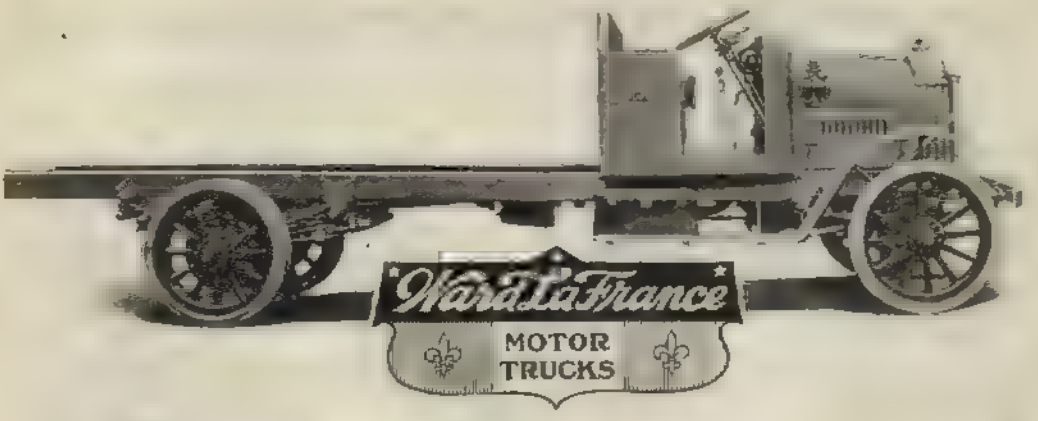
Ask us to send you regularly the new Selden Magazine—"TRANSPORTATION." It contains valuable information on the operation of motor trucks.

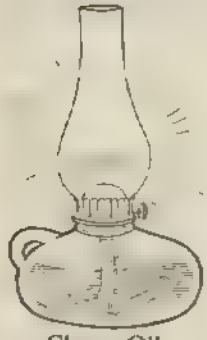
Ship by Truck—SELDEN Truck

1½, 2½, 3½, 5 Ton Models—all WORM Drive

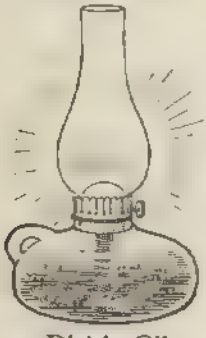
SELDEN TRUCK CORPORATION, Rochester, N. Y., U. S. A.

Selden Motor Trucks





Clean Oil
Clean Flame



Dirt in Oil
Clean Flame

Our Grandfathers furnished the idea for perfect MOTOR TRUCK LUBRICATION

Old ideas and ways are often best and are exceedingly useful when applied to present-day problems. For instance, here is a case that has ever been a preplexing question—the perfect lubricating system for a motor truck. Just as the wick in the oil lamp assures a bright, clean flame even though there is foreign matter in the oil reservoir, the automatic lubricating system of the Ward LaFrance truck with its oil wick, feeds a clear, clean lubricant to the chassis bearings of the truck.

The truck in use is naturally fed more oil than when at rest—exactly the same principle as the lamp. Light it, the wick feeds oil; extinguish the light and the oil feed stops; but the wick is always oil-filled and ready to feed. The truck, too, is always in lubrication, but not consuming oil till it is in action. So then: Automatic wick lubrication eliminates the one failing in the human element, "Forgetting to grease it"—furnishes none but clean lubricant, keeps bearings washed clean; keeps them oiled.

DEALERS: Opportunity is offered a few live wire dealers to link themselves up with an attractive co-operative proposition. Write for particulars.

WARD LA FRANCE TRUCK CORPORATION
DESK 31, ELMIRA **NEW YORK**

Every Truck Signatured
Ward La France

Sterling Spark Plugs

Why a Tractor Plug for a Motor Car?

Sterling Tractor Spark Plugs have been developed to meet the most exacting requirements of tractor motors.

Ordinary spark plugs will not withstand, for any length of time, the high heat produced by these internal combustion engines.

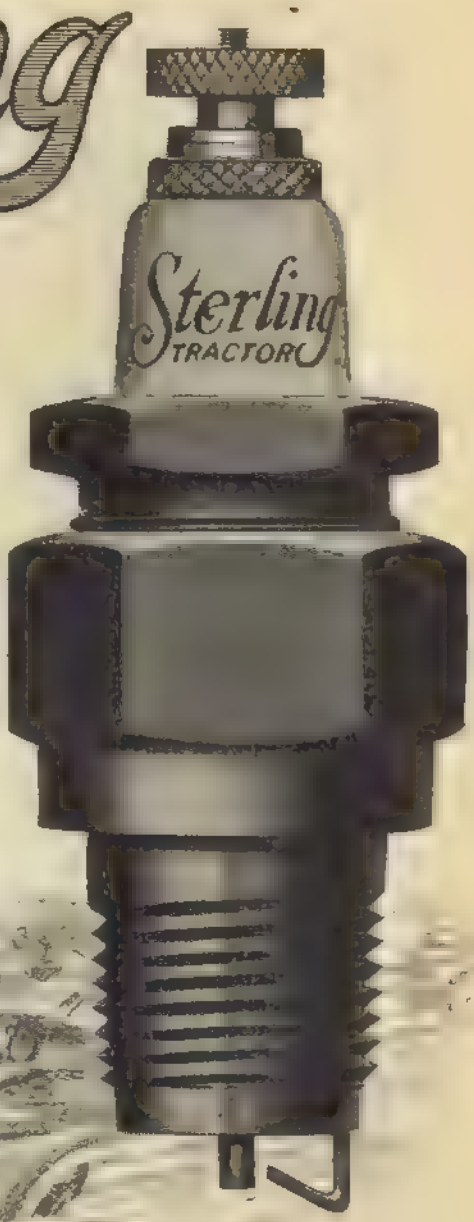
Sterling Tractor plugs meet the severest test imposed, for they are scientifically constructed. The porcelain core is unusually heavy; the combustion chamber extra deep, and the center electrode—made of monel metal—will not warp.

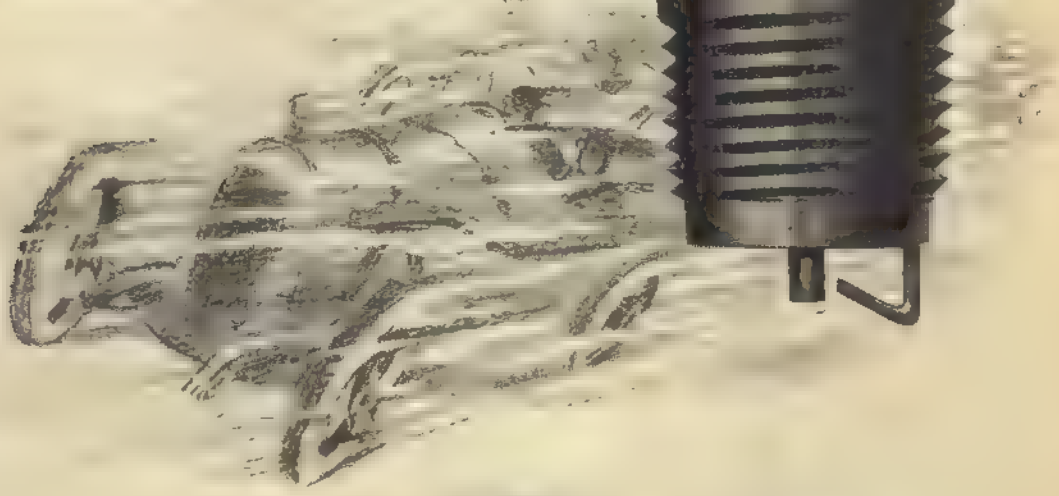
Since Sterling Tractor plugs fulfill the demands of tractor engines they are, naturally, the best possible spark plug for use in the motor car. These heavy-duty plugs are like all Sterlings, they are separable and easily cleaned.

Progressive garages and supply dealers everywhere sell and endorse these Sterling guaranteed plugs.

The Lockwood-Ash Motor Company
2053 Douglas Street Jackson, Michigan

(68)





SEPARABLE CLEANABLE

TEMCO GARAGE OUTFIT

Electric Drill
Emery Wheel
Valve Grinder

All In One

This Garage Outfit is making a hit all over the country, cutting costs, increasing capacity and boosting profits.

You will have dozens of uses for the Temco Garage Outfit every day in the year.

It Drills—Taps—Grinds Valves—Sharpens Tools

Portable—you take the tool to the job—not the job to the tool. Attach to any electric light socket (D.C. or A.C.) and it's ready. Starts—Stops—Reverses instantly by finger switch on tool.

Also grinders, tool post grinders, buffers and larger drills. Temco Tools always satisfy

Write today for catalog or see your jobber

Does More and Faster Work

—

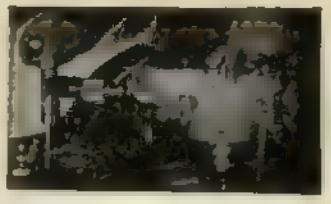
Earns More Money

The Temco Electric Motor Company

221 Sugar Street — Leipsic, Ohio

Emery Wheel Attachment

Grinding Valves With Temco



TEMCO Garage outfit

Undreamed of Power and Economy
The
Stokes Dual Carburetor
The Simplest and Most Effective Carburetor in the World
Ford, $15.00 Dodge, $16.00

Made for All Cars up to and Including 1 ¼" Vertical Manifold
Home Office of the
STOKES CARBURETOR CO., Inc.
384-386 East 133rd St. NEW YORK CITY
Dealers: Write for Official Service-Station Proposition

ROME-TURNEY RADIATORS

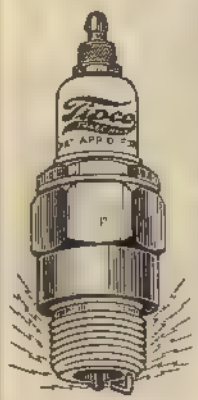
Rome-Turney Seamless Helical Tube Radiators for Trucks and Tractors are guaranteed for the life of the motor. They are accepted as the best by the leading manufacturers.

Rome-Turney Square Tube Honeycomb Radiators for Aeroplanes and Automobiles are unequaled for efficiency and long life.

Radiator Cooling Sections manufactured for radiator repair shops. Our repair department rebuilds all makes of radiators.

Rome-Turney Radiator Co.
ROME NEW YORK

Tipco Spark Plugs
"Never Stutter"



The Tipco protected insulator construction, backed by the finest materials and best workmanship, gives a spark plug that adds to the satisfaction of motoring by lessening ignition troubles.

Each plug is guaranteed to give satisfaction to the user.

Price **$1.25** *each*

Big profits to Dealers and Jobbers

Write for full information

The Ignition Plug Company
Incorporated
LOUISVILLE KENTUCKY

The
Erie Buffalo Tube Company
Manufacturers of
SEAMLESS BRASS AND COPPER TUBES
1227 W. 18th St.
Erie, Pa.

ULTRA SEAL
THE PERFECTION PISTON RING CO
NON-LEAK PISTON RINGS

ULTRA Seal Non-Leak Piston Rings go thru an improved process of shrinking and compressing the metal, leaving the outer diameter soft, so that it does not wear the cylinder walls.

We have the most improved scientific methods of producing a high-grade Piston Ring which insures a ring perfect in circle, bearing with equal radial tension against the cylinder wall and will retain this tension under all conditions of heat and wear.

Each ring is individually cast of a special analysis of the finest grade of soft gray iron.

Every ring tested for tensile strength, gauged and inspected before leaving the factory.

Our engineering department would be glad to solve any of your Piston Ring problems that you might have.

Perfection Piston Ring Co.
RAVENNA, OHIO

52 YEARS

ALBANY GREASE

has an incomparable record of lubrication service during the past 51 years, stamping it as a most efficient and economical lubricant. Use it in all grease cups, roller and ball bearings and gear cases. When a soft mineral-oil lubricant is desired, use Cook's Lubricant. Albany Auto Oils are exceptionally good oils

We desire to correspond with reliable dealers

Adam Cook's Sons, Inc.
708-10 Washington St., New York
Established 1868

DAVIS
EXPANSION BORING TOOLS

Davis Expansion Boring Tools will improve and increase boring production, and will also effect a substantial saving in cost.

Cutters are expanded to compensate for wear by practical micrometer adjustment, which insures accurate maintenance of any size within range of tool, at fastest feeds and speeds.

Highest standards of accuracy and efficiency in metal boring can be maintained in your shops with the use of Davis Expansion Boring Tools. They are made in any style, size or design to meet with the requirements of any shop.

Write for full particulars

DAVIS BORING TOOL COMPANY
Incorporated
3760 Forest Park Blvd. St. Louis, U. S. A.

The DAWSON GREASE CUP

YOU CAN'T CROSS THE THREADS

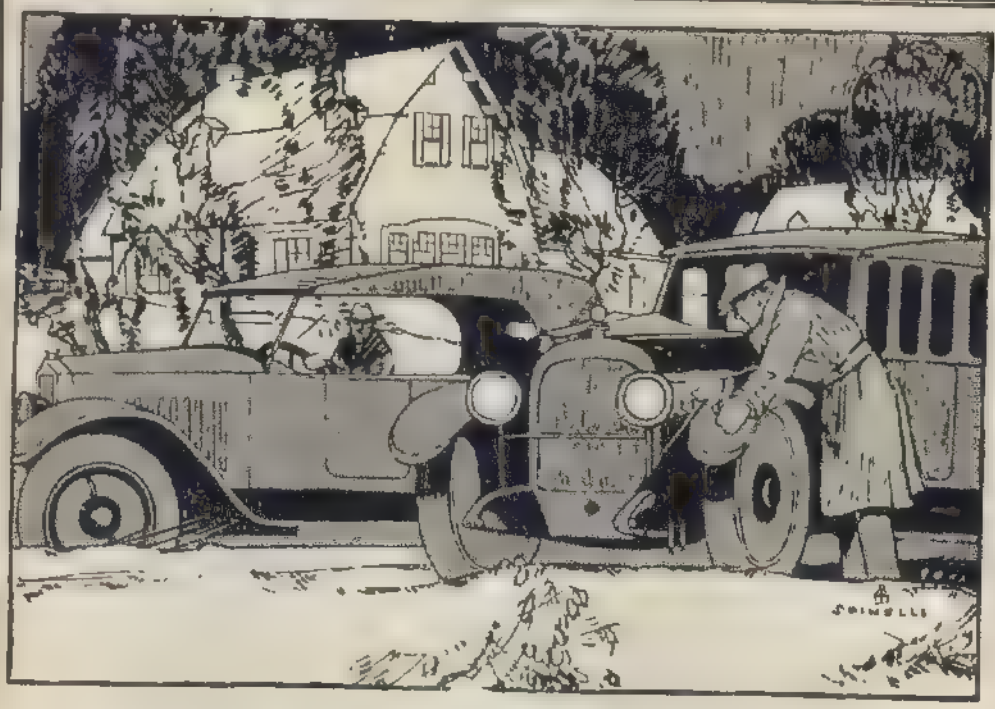
Quickest and Cleanest to Operate

Pressure over 500 pounds to square inch, without leaking past the threads

TOPS CANNOT VIBRATE OFF

Jobbers write for electros

DAWSON MFG. CO.
4926-34 Broadway Chicago



THERE is satisfaction in knowing why a motor refuses to "turn over" on a cold day. It may be battery trouble, superinduced by too much work—pulling against cold, stiff lubricants. It might be other inward troubles of the motor for the same reason.

Most winter troubles may be eliminated by using the proper oil—of proper cold test. We suggest

SUPREME AUTO OIL

as a cure for such troubles

It flows freely at Zero—starts with the engine—gives instant lubrication—relieves the pull on the starter, likewise the battery. It leaves less carbon, hence less pre-ignition—you should use it.

Supplied by any dealer displaying the sign of the Orange Disc.

GULF REFINING COMPANY

General Sales Offices: Pittsburgh, Pa.

District Sales Offices:

NEW YORK
PHILADELPHIA
BOSTON
ATLANTA
NEW ORLEANS
HOUSTON

The DIXIE Flyer

The Car, the Company and the Dealer

What has been said of many high-priced cars can be truly claimed for the Dixie.

Beauty, poise, dignity—the things that appeal to the eye—*the ability to take you there and bring you back*—which contributes mostly to pride of ownership—all are conspicuous in the Dixie Flyer.

And the same breadth of vision employed in the manufacture of the Dixie is reflected in the generous co-operation and permanent protection this forty-year-old company accords its distributors everywhere.

The live dealer who appreciates the sales possibilities of the Dixie Flyer—who values the spirit of Dixie co-operation—will find in this car and this company his larger opportunity.

Wire for Particulars

KENTUCKY WAGON MFG. CO., INCORPORATED
Third and M Sts. Louisville, Kentucky

NEW YORK CHICAGO

WHAT

was the one universal query at the National Shows?

—MILEAGE—

"What will she do on tires?"
"On a gallon of gas?"

Both vital factors in present day motoring and constantly becoming more so

The price of a fluid in general use in motoring circles was recently advanced one cent per gallon—

AND IT WAS NOT WATER

In short, the car which cannot show better than a fair Gasoline and Tire mileage "has its future behind it"; the car which can make *better than a good* showing in both these items is "behind its future."

To ascertain the full meaning of the words ECONOMY—EFFICIENCY as applied to motoring, investigate the merits of

THE

NELSON

The Car With the Aeroplane Type Motor

Mr. Owner, what do you want to drive—
Mr. Dealer, what do you want to sell

A HAS BEEN—OR A WINNER?

If you "see the light" and are in consequence progressive, we will send to the one descriptive literature and to the other we will outline a selling proposition on the *One Best Bet* on the automobile market today.

E. A. NELSON MOTOR CAR COMPANY

500 Bellevue Avenue DETROIT, MICHIGAN, U. S. A.

Turn-O-Stop Indikator

The *Turn-O-Stop Indikator* is the simplest and most practical understood Signal on the market. It fits any car.

A Real preventative for rear-end collisions when stopping, backing or turning. A specially attractive proposition is now ready for jobbers and dealers.

Write for Circular T

UN-X-LD PRODUCTS CORPORATION
76 Front St. New York

Factory
521 West 23rd St., N. Y.

REAM UNIVERSAL JOINTS

Ball and socket and full roller bearing.
Oscillation impossible
No backlash.
Do not develop velocity variation.
No damage through the agency of end-thrust.
Spline end extends through the ball, providing equal pressure on inner and outer end of ball
All traces of whip are entirely removed.

(PATENTED)

No loss of power to deflect
Perfect relative alignment under all conditions.
No noise—roller bearing.
Positively does not waste lubrication

Extraordinary long life.
Made entirely from forgings and bar stock.
Unequaled and unqualified service.
Repair shops, dealers, jobbers—ask us about replacement assemblies for any truck or car—all sizes.
Quantity production for manufacturers.
Send for catalogue—contains complete detail.

R-S MANUFACTURING CO., Kansas City, Missouri Plant and Works: Dayton Ohio

SOLID WOVEN BRAKE LINING

WOVEN STEEL HOSE & RUBBER CO.

"Wovco" Clutch Rings
1 Doz. In a Box
Armored Acetylene Tubings
Mechanical Rubber Goods
Write for prices and samples

TRENTON N. J.

To give your trade everlasting jack satisfaction, sell

BUCKEYE JACKS

There's a BUCKEYE JACK made for every type and size of motor vehicle. They are splendid sellers, because they have a long record of success behind them and are known for their quality, strength, and dependability.

New models (one of which is shown here) have been added to the line. They have an improved auxiliary foot of great strength, which gives a long range of exceptionally quick adjustments without the use of tools. Write for catalog and prices

The Buckeye Jack Mfg. Co. Alliance, Ohio

BRUHN'S

DOUBLE EXCENTRIC

JACK

Lifts Twice With One Pull of Lever

An exclusive design that lifts the car quicker and higher with half the exertion required to raise old style Jacks just so far. It meets every requirement as it can be used at front or rear and moves cars to any angle or complete turn.

Send for full particulars today

The Bruhn Mfg. Co.
Box 269

Hammond Indiana

The BENZER LENS

Increase Your Business

DEALERS everywhere are taking in and recommending Benzer Lenses. Get ahead of your competitor

Improved lenses of marvelous, scientific construction Produces results not accomplished by others—ditch-light, prominent-light and distance-light all-in-one.

Write for prices and agency opportunity

The Benzer Corporation
141-143 Roebling St.
BROOKLYN, N. Y.

Sullivan

Motor Trucks

1½—2—3½ Tons

Offer any wideawake Dealer an unlimited opportunity. Containing units of proven work, such names as Buda, Bosch, Stromberg, Timken, Ross, Brown-Lipe and Parish & Bingham stand out convincingly The chief asset about Sullivan Trucks to the Dealer is their exceedingly low average for repair costs.
For steady constant work, under all conditions calling for dependability, Sullivan Trucks are supreme Get full particulars about the Sullivan Selling Plan now.

SULLIVAN MOTOR TRUCK CORP.
ROCHESTER, N. Y.

WELLMAN

The W-S-M Tire-Applying Press in your shop opens up a new source of profit. Hundreds of solid tire users will award their replacement business to you if you have this equipment.

SEAVER

Designed and built for super-strength, this press cannot buckle or break. Its mighty pressure and action are regulated by the turn of a valve.

MORGAN

Let us send you full details.

The Wellman-Seaver-Morgan Co.
Akron, Ohio

Ordinary plug (regardless of the number of firing points) is dead if even one point is fouled.
Twin Fire fires two distinct sparks. If one shorts, the other continues to fire. Double efficiency, dependability with same current.

"This Is the Spark Plug for Me"

This Is What the Motorist Says When He Sees the "Lead Pencil" Test

This simple demonstration instantly proves to the most doubtful motorist that *Twin Fires* banish all of his troubles with spark plugs.

Take any lead pencil and you can easily and convincingly prove to the troubled motorist that *Twin Fires* give two independent sparks—entirely different from any other spark plugs.

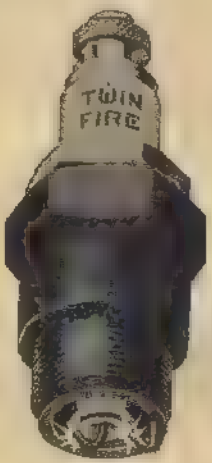
This test will prove to his sense of sight that with *Twin Fires* he will always get two distinct, hot, fat, and instant sparks—that if dirt, oil or carbon clogs one point—the other point continues to fire.

Show Him Twin Fires— Then You Will Equip His Engine

The handy *Twin Fire* demonstration outfit enables you to prove how this plug overcomes troubles from oil and from carbon, and how it increases power. When the motorist sees this he wants you to sell him a set.

Dealer Plan Sent to You On Request

Twin Fire Spark Plug Company, 722 Grand River Ave., Detroit, Michigan



Two Distinct Sparks

TWIN FIRE

U S MOTOR FLOATING POWER PLANT TRUCKS

"As Good as Its Name"

The Hit of the Chicago Show

More dealers appointed—more trucks sold—than by any other two truck manufacturers who exhibited there.

Forty new dealer contracts closed—five hundred trucks sold—that's what UNITED STATES MOTOR TRUCKS did at Chicago—and here are the reasons, as we heard them from dealers who saw the exhibit:

"A revelation in motor trucks—two years ahead—wonderful construction—unusual refinement of detail—finest line of trucks built—best looking line of trucks I ever saw—half sold when the prospect sees them—certain to give long service—unusually attractive dealer proposition."

FIVE MODELS

Worm Drive—3,000, 4,000, 6,000, 8,000 and 12,000 pound capacities. Also 1½ ton Farm Truck with five-way convertible U. S. Standard Farm Body. This complete line is the

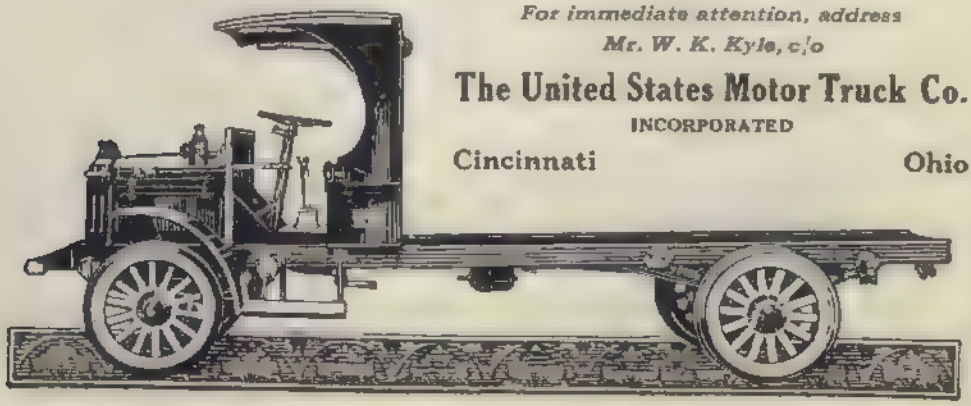
LATEST WORD

in motor truck design, construction, quality, efficiency and economy of operation.

Dealers: You want to build for the future. You want to sell the same truck line year after year. You want trucks that will SELL. U. S. is the answer. This is the line you should handle, for it is two years ahead of the others, and will STAY ahead.

The fellows who saw the line at Chicago closed on the spot. Nowhere else could they find a line of trucks completely answering the user's requirements, so dependable, both to serve the customer and make money for you.

Are you going into the motor truck business? If in it, are you dissatisfied with your present connections? Are you considering a change? Then communicate with us, for your own good. Our proposition will stand the closest investigation, and our age (12 years of motor truck manufacture) is proof that we know the business, and are in it to stay.



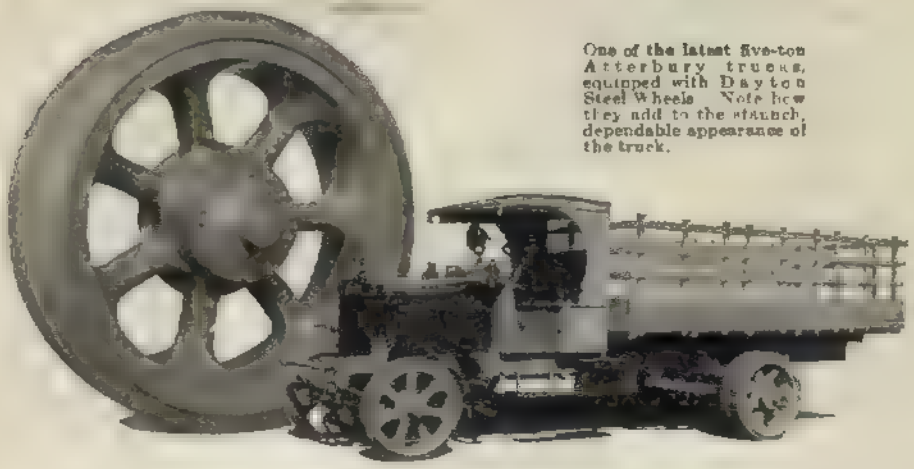
For immediate attention, address

Mr. W. K. Kyle, c/o

The United States Motor Truck Co.

INCORPORATED

Cincinnati Ohio



One of the latest five-ton Atterbury trucks, equipped with Dayton Steel Wheels. Note how they add to the staunch, dependable appearance of the truck.

ARE YOU POSTED ON WHEELS?

THIS is a time when it behooves the dealer in motor trucks to be informed about wheels.

An old order is going out and a new is steadily coming in. According to 80 manufacturers and distributors who were recently questioned about wheels, an increasing number of trucks will henceforth be equipped with steel wheels.

Is your truck one of these? Has it Dayton Steel Wheels? This is what purchasers of motor trucks insist upon knowing.

For Dayton Steel Wheels have earned for themselves a nation-wide reputation for service and economy. In seven years never a wheel has come back to us for repairs. Their lightness saves fuel. Their true roundness adds from 10 to 25 per cent to the mileage obtainable from tires. These wheels never require replacement.

These are selling facts—facts that will make sales easier for you if your truck rolls on Dayton Steel Wheels. This isn't a time to let sales slip away from you—instruct the manufacturer of the truck you handle to equip them with Dayton Steel Wheels.

The Dayton Steel Foundry Company

MAIN OFFICE AND WORKS: DAYTON, OHIO

DETROIT:
100 Chamber of Commerce

NEW YORK:
416 World Building

CINCINNATI:
416 First National Bank Bldg.

Dayton
Steel Truck Wheels
(Patented)

Dayton Wheels

© T. D. S. F. Co.

"Big Business" Buys UNITED Spark Plugs

Owners of big truck fleets buy United Spark Plugs because they survive the hard work and abuse of truck service.

United Spark Plugs provide consistent ignition day in and day out—they serve. And truck owners want the "Lockt" terminal—for it gives a positive contact that no truck vibration can loosen.

There are many repeat orders of United Spark Plugs—"Big Business" buys them again and again.

United Spark Plugs are guaranteed—and you make a liberal profit on each sale.

Heavy Duty, $1.00 for Trucks and Tractors } **RETAIL PRICE** { **Junior Type, 75c for Passenger Cars**

Look in the Chilton Automobile Directory and Auto Trade Directory for list of jobbers handling United Spark Plugs.

UNITED

Made for a Purpose—Consistent Ignition

Ask Your Jobber for the Plug in the Yellow Checkerboard Box

United Manufacturing and Distributing Co.

LAKE SHORE DRIVE AND OHIO STREET, CHICAGO, ILLINOIS

Pacific Coast Representative
A. C. RIDDELL
Marvin Bldg., San Francisco, Calif.
Higgins Bldg., Los Angeles, Calif.

Southern Representative
BLOCK AUTOMOTIVE CO.
Charlotte, North Carolina

UNITED SPARK PLUGS

Two Stage Usaco Air Compressors

Mature investigation and deliberation will emphasize the wisdom of purchasing Two Stage De Luxe Air Compressors because, in them, the writer obtains:

High pressure air in great volume, hence ***capacity to quickly handle a large number of passenger car tires*** or ***giant truck tires of any size or pressure.***

Pure air, without moisture or oil, for Usaco Compressors have ***both filtering trap and automatic air purifier, a new and valuable feature.***

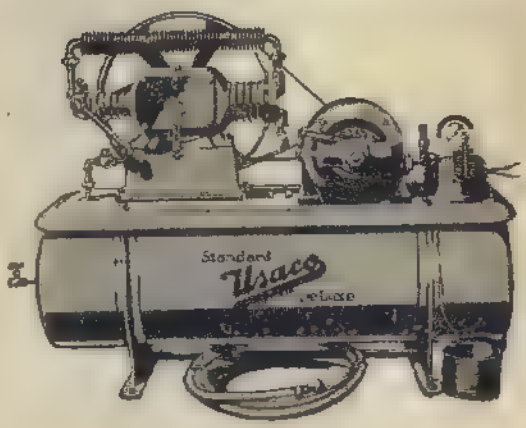
Capacity sufficient to accommodate rapid growth of business and ***serve you faithfully,*** with ***minimum attention*** and ***freedom from repairs for years to come.***

An outfit that is ***completely automatic*** and ***foolproof*** in operation because ***safeguarded*** against changing conditions and emergencies.

An outfit in which ***the cause of burned out motors, blown fuses, etc., is definitely eliminated,*** because equipped with the Usaco Patented Unloader which ***permits motor to start without load.***

An outfit that ***will not overheat*** because it is amply lubricated and equipped with ***numerous cooling fins*** and ***fan blade flywheel.***

An outfit selected as ***the best available*** by a majority of establishments, the ***adopted standard of many international corporations,*** the ***Government's choice for war service.***

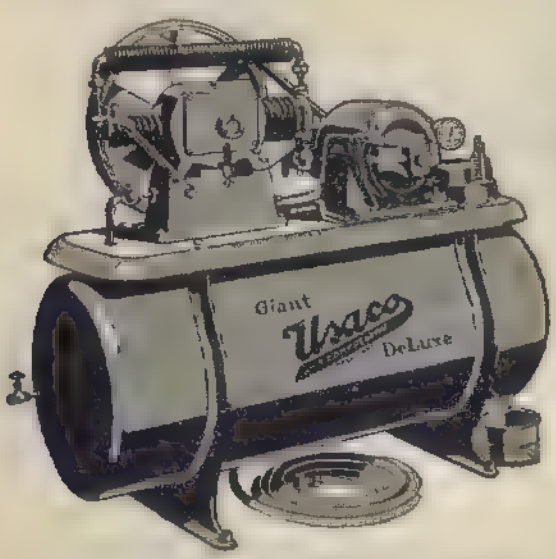


THE two Usaco De Luxe Air Compressors illustrated are the leading units of the Usaco Line, containing machines adapted for every existing need. They embody all the advantages mentioned and differ only in compressing ability and tank capacity.

The ***Usaco Standard De Luxe*** has a capacity of 4 cu. ft. per minute, and a tank capacity of 30 gallons, suitable for 200 pounds working pressure.

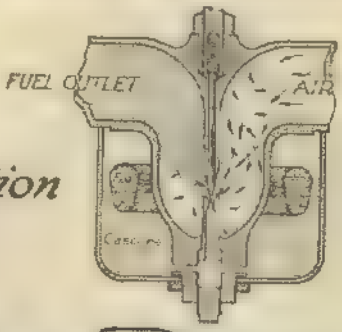
The ***Usaco Giant De Luxe*** has a capacity of 7 cu. ft. per minute and a tank capacity of 60 gallons, suitable for 250 pounds working pressure.

Both units are also furnished mounted on wheels so that they may be easily moved to the cars or other departments, if desired



Above is illustrated the Usaco Unloading Device, which all familiar with electric motors will appreciate as invaluable and in fact essential to satisfactory operation. It is obtainable only on Usaco Compressors because amply covered by Patents.

The United States Air Compressor Co.
6532 Carnegie Ave. Cleveland, Ohio



An Explanation of *The Airplane Principle*

VAN BRIGGLE CARBURETORS

A THOROUGH examination of the Van Briggle principle of Carburetion will show that it follows simple, natural laws in its functioning, and contains nothing mysterious or complex. ¶ To illustrate its simplicity, examine the cross-section above. Note the path of the inrushing air. You see that it strikes directly upon the lip of the nozzle on the inlet side.

Motor speed automatically controls fuel consumption

The velocity of this air has direct control over the amount of gasoline coming *out* of the nozzle. When speed is increased, the increased velocity of air, beating against the gasoline nozzle, retards the flow of gasoline. So the proportion of air and gasoline is instantly corrected to obtain the most power with economy, at any engine speed, under all variations of load, road or weather.

When the air strikes the top of the nozzle, it throws the gasoline in a fan-shaped spray toward the outlet side of the mixing chamber. Then the air which has passed on down and turned up toward the outlet rushes up through this spray and reduces it to a swirling vapor, which enters the cylinders almost as evenly as natural gas.

Power, Economy, Dependability

The perfect mixing of air and gasoline, to a near-natural gas consistency—gives the power, the freedom from trouble, which Van Briggle owners praise.

The Van Briggle Airplane Principle Carburetor is simple, understandable. So much so that a Van Briggle user KNOWS, when his motor troubles or fails him, that his Van Briggle Carburetor is NOT at fault.

Ask your dealer or garageman today for a Van Briggle Airplane Principle Carburetor. For either cars or trucks, in the following models: Dodge, $18; Maxwell, $15; Ford, $10. Complete, ready to install.

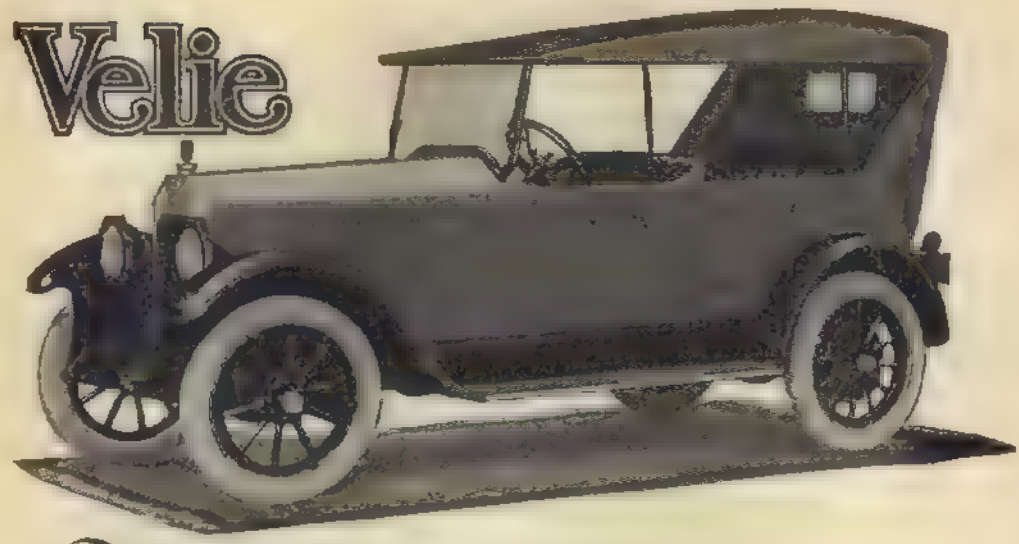
Shock Absorbers *for* Ford Cars

SAVES strain on motor and car-frame; reduces up-keep, makes riding more enjoyable. Adds to length of service; increases resale value. Makes easier driving

Does not crimp or bind springs. The rebound is caught by the reverse movement of the shock absorber. Installed without removing wheels or changing anything. Price Complete Set, ready for installation: $18

Van Briggle Carburetors and Van Briggle Shock Absorbers are sold to dealers through bona fide automobile accessory jobbers.

VAN BRIGGLE MOTOR DEVICE CO., INDIANAPOLIS, U S A.



The Authoritative Style at the Shows

VELIE cars, as the first authoritative example of the new style, will be a center of attraction at New York and Chicago as well as all other Automobile Shows.

The beautiful combination of symmetrical, mirror-like planes satisfies the finest sense of car character. Velie cars have an indefinable note of snap and elegance, with a distinction that thrills the motorist grown tired of the ordinary.

Velie closed bodies are marvels of luxury in their cushioning of mohair velvet. Noiseless windows lower easily by automatic controls. Temperature regulated to please. New ideas everywhere.

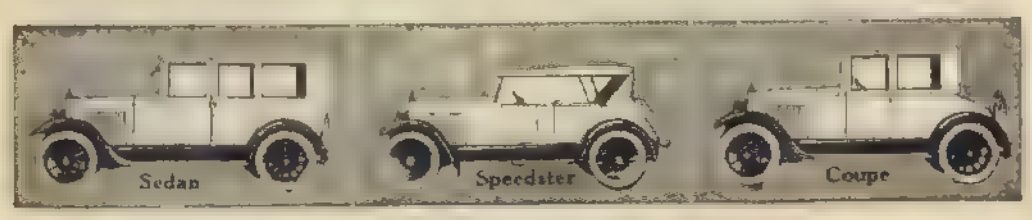
Velie Six motor with its internally heated vaporizer, burning low-grade fuel, gives many more miles per gallon. Four-bearing motor running smoothly and solidly at all speeds, with power to spare.

If your territory is not closed we suggest that you write or wire for appointment.

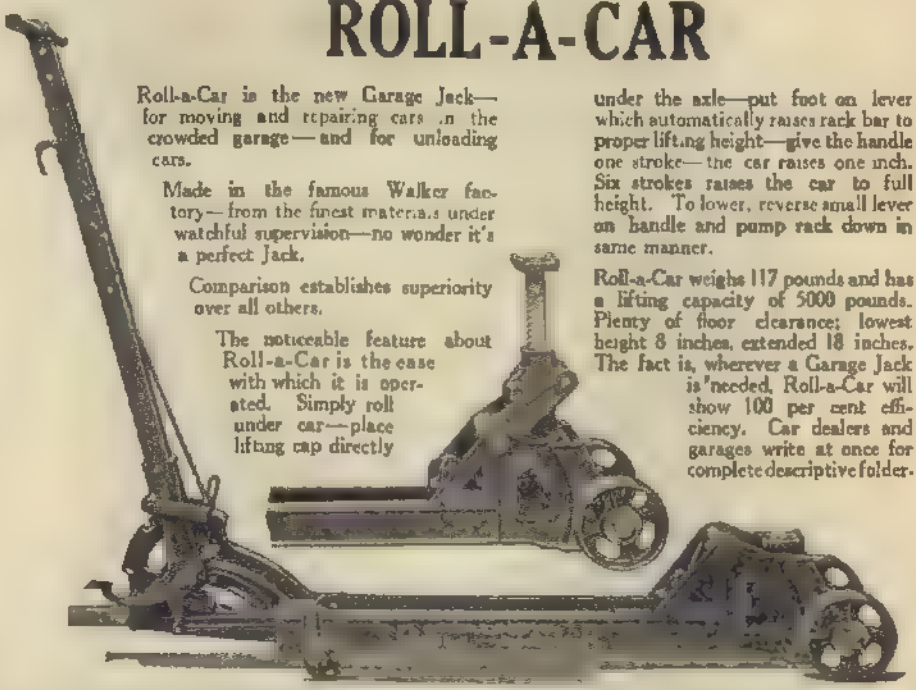
Extra!! — First Public Exhibition of a Smaller Velie Six — Extra!!

Another new Velie Six, Model 34, will be seen for the first time at the Shows. Lower in price—of foremost quality. Literature now ready.

VELIE MOTORS CORPORATION
118 Velie Place, MOLINE, ILLINOIS, U. S. A.



ROLL-A-CAR



Roll-a-Car is the new Garage Jack—for moving and repairing cars in the crowded garage—and for unloading cars.

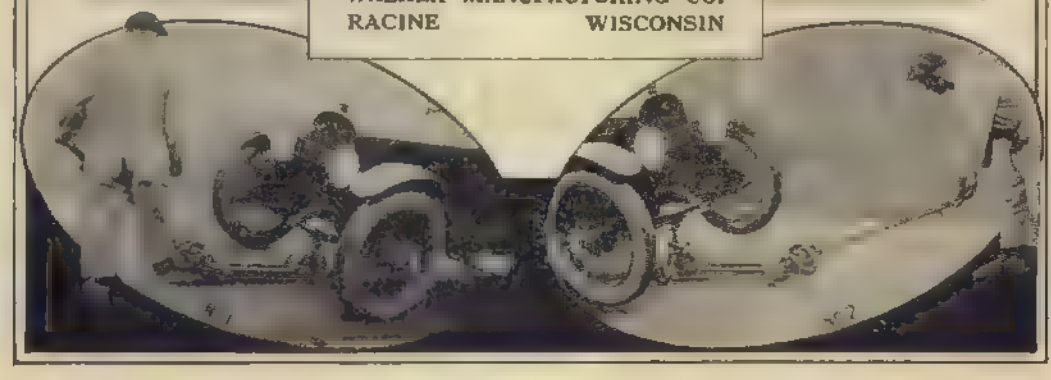
Made in the famous Walker factory—from the finest materials under watchful supervision—no wonder it's a perfect Jack.

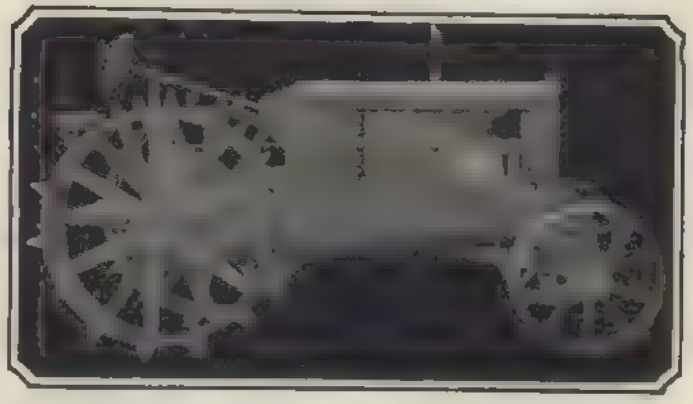
Comparison establishes superiority over all others.

The noticeable feature about Roll-a-Car is the ease with which it is operated. Simply roll under car—place lifting cap directly under the axle—put foot on lever which automatically raises rack bar to proper lifting height—give the handle one stroke—the car raises one inch. Six strokes raises the car to full height. To lower, reverse small lever on handle and pump rack down in same manner.

Roll-a-Car weighs 117 pounds and has a lifting capacity of 5000 pounds. Plenty of floor clearance; lowest height 8 inches, extended 18 inches. The fact is, wherever a Garage Jack is needed, Roll-a-Car will show 100 per cent efficiency. Car dealers and garages write at once for complete descriptive folder.

WALKER MANUFACTURING CO.
RACINE WISCONSIN





AN OPPORTUNITY

Many automobile dealers are successfully handling Wallis Tractors

In selecting the Wallis, these dealers have been careful to choose a tractor that would day after day give their customers unfaltering, faithful, economical service.

They take pride in showing the Wallis highly developed valve-in-head motor. Also how the patented "U" frame gives the lightest and sturdiest foundation ever built into a tractor.

They point out why Wallis cut-and-hardened steel gears, which run in dust-proof cases and in a constant bath of clean oil, reduce friction and increase the life of this tractor.

And they appreciate that the big institution back of this tractor—and Wallis 12 years of successful performance on American farms—are the best guarantees of satisfaction.

The result is that these automobile dealers, backed by the Wallis highly developed national and local sales, advertising and service programs, are adding substantial profit to their business.

We invite correspondence with automobile dealers that are qualified to handle an absolutely high-grade tractor proposition. (120-B)

J. I. CASE PLOW WORKS COMPANY, Racine, Wis., U.S.A.
Branches and Distributing Houses in All Principal Cities

The Wallis Tractor and J. I. Case Power Farming Implements will be exhibited at Kansas City, Minneapolis and other important tractor shows

Notice: We want the public to know that the WALLIS TRACTOR is made by the J. I. Case Plow Works Co. of Racine, Wis., and not by any other company with "J. I. Case" as part of its corporate name.

WALLIS

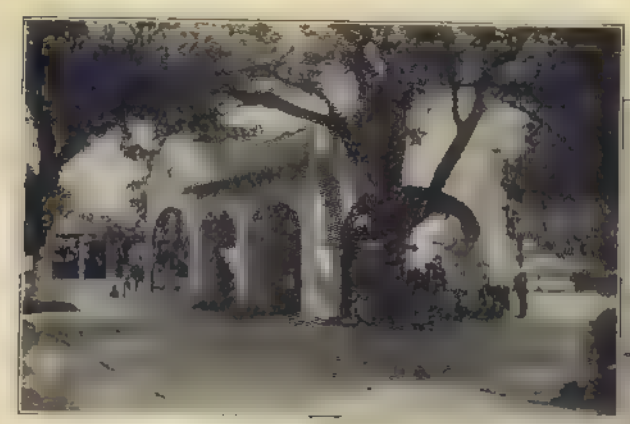
America's Foremost Tractor

It does not just happen that the Republic is the largest-selling truck in the world today. It goes back to such basic things as the Republic's performance, its wonderfully rugged strength, and real economy. More than 60,000 shrewd business men have now bought Yellow Chassis Trucks because the Republic convinced them that it actually does better hauling at less cost.

REPUBLIC TRUCKS

Republic Motor Truck Co., Inc., 943 Michigan Avenue, Alma, Michigan

REPUBLIC
Yellow Chassis
TRUCKS



Above — Texas Company filling station at Houston, Texas; at right — Gaffney's fine station at Guthrie, Okla., and Humble station at Houston, Texas. All are Wayne equipped.

The finest, use—

Wayne

Honest Measure Pumps

LOOk in some day on any of the fine filling stations and garages of the country—you will find Wayne equipment in largest use.

Not that Wayne is "fancy equipment." Far from it. Wayne is merely the *best*—so naturally it is equipment in the fine filling stations and garages.

The qualities of geared motors, accurate dials and measuring, rugged strength and simple beauty of design make Wayne Pumps necessary in large and small establishments.

Wayne outfits are built and priced to meet every filling station and garage need, from smallest to largest. They insure perfect measure with no leakage and *no repairs*. (We have records of long years of active service with never a break, write for them.)

Your customers like the unmatched speed of the Wayne one-way handle movement, they like the easily read dial, and computing scale, and the clear, filtered gasoline.

You will like Wayne dependability and fine looks with its exclusive features of push button quantity stops, counterbalanced cylindrical sliding housing, six inch clock-like dials, large register gears, meters, graduated computing scale and *two-year guarantee*. Our outfit for air and water at the curb, also, is a trade-builder in looks and service.

Write for Bulletins 280 AJ 276 AJ, 11 AJ and 320 AJ, and complete information. Get Wayne working for *your profit*.

Cut No. 280 One-gallon pump, for gasoline at the curb

Our factory is running at full capacity in an endeavor to meet the big demand for Wayne equipment.

We must keep a close watch on Wayne quality, as it was Wayne quality, that created the demand.

Cut No. 320 For installing oil at the curb.

WAYNE OIL TANK & PUMP COMPANY

702 Canal Street, Ft. Wayne, Indiana

Sales Offices in All Large Cities—Representatives Everywhere

THE NEW SAXON is a wonderful, beautiful motor car creation—ten years ahead of the times.

Men long of high standing in the Automotive World are responsible for it.

They have endowed it with features and developments that can be regarded as nothing short of master strokes in modern engineering.

Motor troubles that have puzzled all engineers for years are absent from this car—the new Saxon.

Carbon, valve-grinding, fouled spark plugs, waste of fuel, sluggishness, vibration, slow-starting, poor lubrication—all these grievous troubles have been eliminated.

Flexible and alert from its first hour, sturdy, graceful and smart in appearance, the new Saxon stands forth—a motor masterpiece.

Dealers will do well to write us before all the territory is allotted.

Saxon Motor Car Corporation
Detroit

WESTCOTT

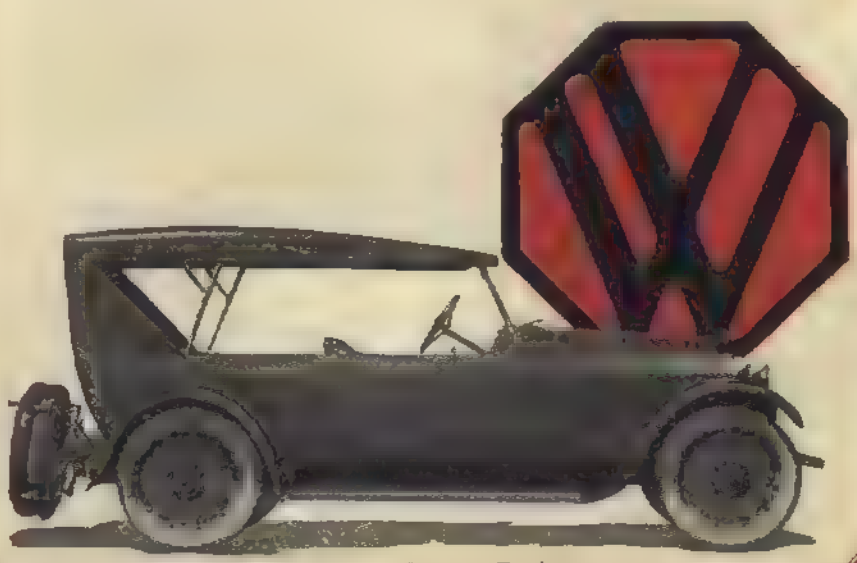
The Car with a Longer Life

AT THE AUTOMOBILE SHOWS a certain class of buyers and dealers always has been attracted to the Westcott exhibit. This is the class that *knows car quality*—and appreciates it regardless of name or reputation. This class will again be found gathering about the Westcott displays, but there will also be another class—that great group of buyers and dealers who want a car with a *reputation;* a car that not only has quality but *public recognition of quality!* Westcott certainly has gained a remarkable position during the year just past—a standing with the public and the trade that would be noteworthy even *without* the distinctive new models exhibited at the Shows this month

THE WESTCOTT MOTOR CAR COMPANY
SPRINGFIELD, OHIO, U. S. A.

Two Chassis Types

The Westcott is made in two types—"The Larger Six" and "The Lighter Six" Both come in a variety of body types of which one only is shown here. The two cars are alike in quality—both deserve the title, "The Car With a Longer Life."



The Larger Six Seven-Passenger Touring

Overland

TRADE MARK REG.

Soft Riding on Hard Roads

FROZEN, rough roads emphasize the wonderful cushioning action of three-point suspension *Triplex* Springs in the new Overland 4, Four-Door Sedan.

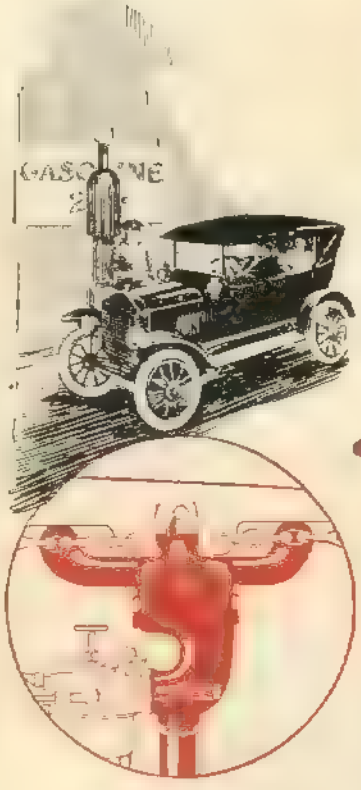
This Sedan protects passengers from bad roads as well as from bad weather.

Triplex Springs give it the steadiness of a heavy car of long wheelbase with the economy in fuel, tires and upkeep of a light car.

Overland Dealers report an ever increasing enthusiasm among owners over the greater riding comfort, performance, equipment and appearance of this new car.

WILLYS-OVERLAND, INC., TOLEDO, OHIO
Sedans, Coupes, Touring Cars and Roadsters
Willys-Overland, Limited, Toronto, Canada

Save 45¢ to $1.00 Every Time You Fill Your Ford Gas Tank



The Holley bolts on in place of the regular Ford intake manifold

That's what the Holley Manifold will do for Ford owners.

The Holley Manifold is attached in place of the regular Ford manifold. It *completely* vaporizes every drop of fuel, so that every atom of power is extracted from the gas.

Every time you fill the gasoline tank the Holley Manifold will save you 45c to $1 —will pay for itself in a few weeks.

It will turn fuel waste into mileage and add five to eight more miles per gallon.

It will do away with cold weather troubles.

The HOLLEY Manifold for FORD CARS

It reduces carbon deposit in the cylinders and prevents dilution of the lubricating oil. It saves money. It saves gasoline.

By means of a valve in the exhaust port leading to the jacket surrounding the intake, the amount of exhaust heat may be regulated from the dash.

The Holley Manifold supplies heat *where needed* and *when needed.*

Ask for literature which tells more in detail about the numerous good results obtained from Holley Manifold operation.

Ask the Holley Dealer in Your Town

Holley Carburetor Company
Detroit, Michigan

(36)

GARAGE EQUIPMENT

JACKS

WEAVER AUTO TWIN

Regular Size

Turn Table—Transporting Truck—Lifting Jacks Tire Rest

These Jacks, in "Regular" or "Extra Heavy" size, provide the only efficient means of handling complete or dismantled automobiles in the Garage, Repair Shop, Storage Room, Paint Shop, etc., as one man can readily manipulate a car.

Their peculiar design, which confines every portion of the Jack within the limits of the car, together with the large 34-inch wheel base, offers a positive, safe and dependable support for either complete or dismantled cars. Brakes can be quickly tested, with absolute safety, wheels removed or aligned and many other small adjustments apparently of minor importance until an efficient and safe way of making them is found. They supply all the service of TURN TABLE, TRANSPORT, LIFTING JACKS and TIRE REST.

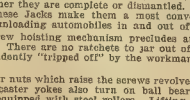
Designed to take either front or rear axle of the car, even though the latter be equipped with truss rods.

Cars can be moved SIDEWAYS, "cut in" at right angles, or turned completely around within their own length, regardless of whether they are complete or dismantled. The peculiar design of these Jacks make them a most convenient aid in loading or unloading automobiles in and out of freight cars.

The screw hoisting mechanism precludes any possibility of accident. There are no ratchets to jar out of engagement, or to be accidently "tripped off" by the workman while under the car.

The gear nuts which raise the screws revolve on ball bearings. The caster yokes also turn on ball bearings and the wheels are equipped with steel rollers. Lifting leverage, 400 to 1; 34-inch wheel base; length of handle, 34 inches; 1 ½-inch screws, diameter of wheels, 4 ½ inches; width of wheel face, 2 inches. Lifting capacity, 4000 pounds.

Regular Auto Twin Jack—Shipping weight, 50 lbs...Ea., $25 00



Extra Heavy

The Extra Heavy Type Auto Twin Jack is designed to stand up under the heavy service required in the busy repair shops and larger garages where all sizes of pleasure cars and medium sized trucks are handled daily.

It is identical in principle with the Regular Jack, but has twice the strength and capacity with several improvements in detail construction.

The new long 40-inch extension on the crank handle enables this Jack to be used on cars with low gasoline tanks and protruding tire racks.

Extra Heavy Auto Twin Jack—Shipping weight, 110 lbs. ..... Each, $36.00

Comparative Dimensions

	Regular Auto Twin Jack.	Extra Heavy Auto Twin Jack
Weight, lbs	50	110
Lifting capacity, lbs	4000	8000
Diameter of wheels, in	4½	7
Length of handle, in	26	34
Diameter of screw, in	1 ¼	1 ¼
Range of lift, in	9	9 ½
Each	$25.00	36 00

JACKS

WEAVER NEW-WAY

Capacity, 5000 Pounds

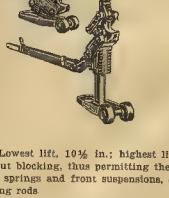
Short Construction—Pivoting Wheels

The length of the frame and wheels over all is 40 inches and the great distinguishing feature is the pivoting wheels, guided and controlled by the handle. By cutting the wheels to right or left, together with the extreme short construction of this Jack, it is possible to manipulate it in a very small space and place it in any desired position, either when placing the Jack alone or when it is supporting one end of a car.

The enormous leverage of this Jack enables one man to lift 5000 pounds with perfect ease. The lifting standard is composed of two sections, one telescoping within the other and is operated by a secure and safe ratchet lift, with ample range so that any car can be lifted sufficiently high in one or two strokes of the handle. A release latch on the handle provides for lowering the standard quickly to its minimum height.

Weaver New-Way Jack—Shipping weight, 100 lbs...Ea., $50.00

EXCEL



Main Jack—Lowest lift, 10½ in.; highest lift, 24½ in. on any car, without blocking, thus permitting the removal of the shackle bolts, springs and front suspensions, and the adjustment of steering rods.

Toe Extension—Lowest lift, 4½ in.; highest lift, 15 in. Permits of getting under a broken axle to lift the car high enough to place truck or skids in position for towing.

The Excel Jack is the only jack with sufficient range of action to lift a Ford car to permit the removal of a front suspension.

Excel Weight, 48 lbs... Each, $35.00

SEATTLE HARDWARE COMPANY

AUTO TOOLS

CARBON SCRAPER SET

Tempered Tool Steel

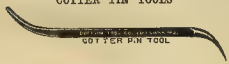
No. 1770—Three Scrapers, hardwood handle, 16-in. blades, one cut turn end, one in turn end, one curved end. For scraping carbon from cylinder heads through the spark plug or valve opening. Ends are untempered to avoid scoring sides of cylinder. Weight per set, 1 lb. ..... Per set, $1.30

DOUBLE END SCREW DRIVERS

Hardened Points

No. 2105—$\frac{1}{16}$x6 in. ..... Per dozen, $6.00
No. 2106—$\frac{3}{16}$x7 " ..... " " 7.00

COTTER PIN TOOLS

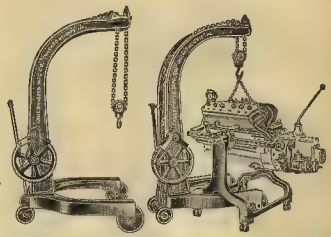


Tempered Tool Steel

Nickel Plated, one end for pulling, other end for spreading Cotter Pins.

No. 1896—$\frac{1}{16}$ in., 7 in. long. Weight per dozen, 2 lbs. ..... Per dozen, $5.50
One dozen in a box.

CANEDY-OTTO PORTABLE FLOOR CRANE



With the Canedy-Otto Portable Floor Crane, Auto Repair Shops and Machine Shops can do away with the expense of the Overhead Traveling Crane or Chain Blocks. The Canedy-Otto Portable Floor Cranes are suitable for all kinds of heavy lifting, cutting the time lost in handling materials, that counts against production, and in many cases paying for itself very quickly in hundreds of machine shops. No shop can afford to be without a Canedy-Otto Portable Crane. They combine strength and capacity, are everlasting, easy to pull and can do their work far quicker than could a half dozen hands, and are always on the job.

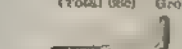
Specifications

Size	1	2	*3
Total height	6 ft.	6 ft. 4½ in.	7 ft. 4 in.
Height of hoist	4 ft. 11 in.	5 ft. 3½ in.	6 ft. 3 in.
Overhang	2 ft. 3 in.	2 ft. 6 in.	2 ft. 8 in.
Width of bed, outside	2 ft. 5 in.	2 ft. 8 in.	2 ft. 10¾ in.
Width of bed, inside	1 ft. 9½ in.	2 ft. ½ in.	2 ft. 3 in.
Length of bed	3 ft. ½ in.	3 ft. 3½ in.	3 ft. 6 in.
Height of bed	11⅜ in.	11¾ in.	11¾ in.
Net weight	500 lbs.	685 lbs.	850 lbs.
Lifting capacity	1 Ton	1½ Ton	2 Ton
Each	$90.00	120.00	177.50

*This size carried in stock.

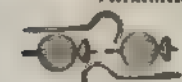
CURTAIN ROD HOOKS

Brassed, ... brassed, ... 1H4630—2 gro. in box (Total 480) Gro. 33c



Square End—3 in., brassed, polished 1H4687—2 gro. in box. Gro. 60c (Total $1.20)

CURTAIN POLE TRIMMINGS



1H4247—Two 1½ in corrugated ... 4 brass ... 4 ... and collars ... in brassed screw end brackets. Price ... in wood poles, each set 1 pair, ... Pair sets 85c; 6 doz. set lots 90c

DRAPERY PINS

1H4698 ... and full size ... Total 84 pcs. ... 75c

1H4682 ... satin brass ... ishing, 1 ... gro. in ... $1.25

CURTAIN POLE RING

AH4681—2 in. brassed. Fits poles up to 1 in. in eye. For pin 10 rings in set. 1 doz. ... pkg. Doz. sets ... Temp. Out

FANCY WORK RINGS

4 sizes brassed, 1 gro. on string, 3 grs. ... box

	Total	Gro.
1H4827—¾ in.	$0.90	$0.72
1H4878—⅞ "	1.14	.92
1H4879—1 "	1.35	1.05
1H4880—1¼ "	1.55	1.30

CURTAIN POLE BRACKETS

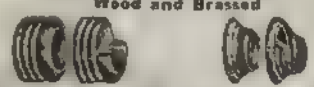
1H4755 — Brassed — Brass ... 3 doz. pr. ... 1H4756 — Brassed Bronze ... Fits poles ... screw for holding pole ... Doz. prs. 80c

1H4757 — Brassed ... Regret ... 1 in box. Doz. prs. $2.25

1H4758 — Fits poles 1 to 1¼ in. 1 doz. ... Doz. prs. 95c

1H4760 — Extends 4 to 7 in. 1 doz. pr. ... box. Doz. prs. $2.60

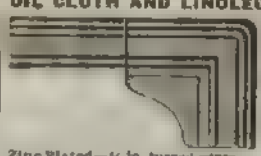
CURTAIN POLE SOCKETS
Wood and Brassed



Wood — Ends ... 2 in. ... mahogany finished, 2 in set. 1H4753—Fits poles up to 1¼ in. 2 doz. sets in box. Doz. sets $1.74

Brassed — Satin ... finish ... 1 doz. sets in box 1H4754—Fits poles up to 1 in. Doz. sets 80c (Total $1.60) 1H4759 — Fits poles ... Doz. sets $1.44

OIL CLOTH AND LINOLEUM BINDING AND SEAM



Zinc Plated—¾ to turned edges holes for nailing, 4 corners ... with nails, 1 doz. ... box. Doz.

1H4033—12½ ft., 4-4	$1.10
1H4033—13 " 6-4	1.60
1H4034—8-4 " 8-4	2.10

Brass Seams, 4 ... 50 yd. piece in ... with nails 1H4035—⅞ in. wide ... Temp. Out

Zinc Seams, One 25 yd. piece ... Carton

1H4029—⅝ in. wide	$0.95
AH4030—¾ "	1.10
1H4031—⅞ "	1.40

STAIR SPECIALTIES

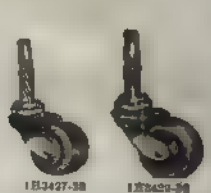
Stair Padding—18 in. long, ... in. wide, ... plated ... half ... 1H4821 ... Doz. sets ...

Stair Rod ... screws, complete ... 1H4827 ... 1H4830—... doz. sets (Total $7.70) Doz. $1.25 $1.35

CASTERS FOR VARIOUS PURPOSES

Daily demand for these items necessitates your keeping a complete stock at all times. The low prices we name give you better than usual profits. You can depend upon satisfying your customers with goods ordered from this showing

FURNITURE CASTERS



1H3427-3B — 1H3429-3B

Steel shoulder and corrugated ... ball bearing ... for caster for furniture ... attached, 4 in set.

Maple Wheel—1 doz. sets in box	Doz. sets
1H3427—⅞ in.	$1.75
1H3428—1¼ "	2.20
1H3429—1½ "	2.35
1H3430—1¾ "	2.65

Steel Wheel—1 doz. set lots.	Doz. sets
1H3428—⅞ in.	$2.10
1H3429—1¼ "	2.95
1H3430—1½ "	3.25
1H3431—1¾ "	3.75

1H3442-3B — 1H3464-66

Rubber tired, ... cannot slip ... detachable socket, ... for all furniture, 4 in set.

Maple Wheel—1 doz. set lots.	Doz. sets
1H3442—1¼ in.	$2.25
1H3459—1½ "	2.40
1H3460—1¾ "	2.65

Steel Wheel—1 doz. set lots.	Doz. sets
1H3464—1¼ in.	$2.65
1H3465—1½ "	2.85
1H3466—1¾ "	3.75

BALL-BEARING BED CASTERS

1H4000 — 1H4039

Reversible ... brass beds. ... caster easily ... Maple Wheel—½ doz. sets in box

1H4020—1¼ in. for ⅝ in. tube. Doz. sets $2.85

1H4021—1½ in., for 1 in. tube. Doz. sets $3.15

1H4022—1¾ in., for 1¼ in. tube. Doz. sets $4.50

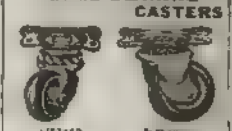
Steel Wheel—½ doz. sets in box

1H4023—1¼ in., for ⅝ in. tube. Doz. sets $3.90

1H4024—1½ in., for 1¼ in. tube. Doz. sets $4.30

1H4025—1¾ in., for 1¼ in. tubes. Doz. sets $6.10

GRIP BALL-BEARING CASTERS



1H3442 — 1H4000

Steel wheel for ... ware, ... brass ... 1½ in. ... 1H3459—1¼ in. wheel, 1 in. plate. Doz. sets $3.75

1H4016—1¾ in. wheel, 1 in. plate. Doz. sets $4.75

1H4017—1¾ in. wheel, 2¼x1¼ in. plate. Doz. sets, $6.50

BALL-BEARING PLATE CASTER

1H3444 — ... to go ... 1½x2¼ in. ... 4 screw holes, 4 in set. 1 doz. sets in box. Doz. sets $3.80

"DOMES OF SILENCE" INVISIBLE CASTERS

Tempered steel, nickeled and polished, 3 prong discs adjusted quickly, require no screws or nails. Heaviest furniture can be moved silently ... does not scratch 4 ... 3 doz. set lots

1H3444—Size 1	... Doz. sets
1H3445 " 2	... "
1H3446 " 3	... "
1H3447 " 4	80c "

CASTER CUPS

Wood—2½ in. diam., ½ in. thick, felt bottom, takes any size caster, 1 cup to set, 3 sets each oak and cherry finish.

1H3416—6 sets in box $2.7 (4 pcs.), Temp. Out (Total ...)

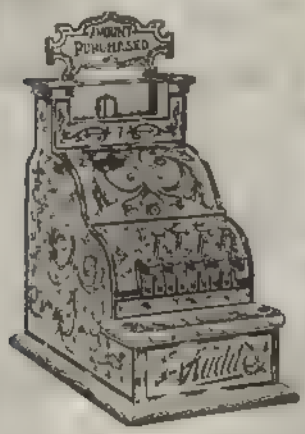
Glass—... diam., ¼ in. ... takes any size caster, 4 ... 1H3421—6 sets in box, $2.7 (4 pcs.), Temp. Out (Total ...)

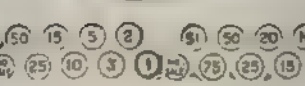
CASH REGISTERS AND SAFES

Both lines merit your orders. The Cash Registers are **guaranteed 2 years,** mechanically perfect. You save money when you buy here and you obtain thoroughly dependable goods

THE "AUDIT" CASH REGISTERS

The best machine in the market for a small store. An ideal register for those who do not wish an expensive machine. Identically the same as higher priced ones only smaller size. Guaranteed 2 years





1H6843-1 Keyboard E — 1H6843-2 Keyboard F

9 keys, similar to "Premier," same finish material and working parts, registers from 1c to 50c or from 5c to $1.00, full plate glass top, keys all nickel plated, lid over adding wheels lined with velvet. 1 in crate, 74 lbs

1H6843-1 Keyboard E. 1H6843-2—Keyboard F — Each $50.00

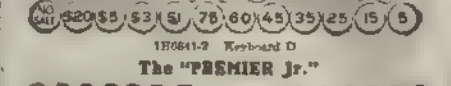
THE "PREMIER" CASH REGISTERS

A machine that will fit every ... general and all other types ...

Will give same practical results as any register costing 5 or 6 times as much. No keys, no ... attachments to get out of order. Prevents all possibility of ... or ... either through ... of dishonesty ... key detail adder, with special keys for Charge, Paid on Acct., Paid Out and No Sale transactions. Has every ... a merchant wants and actually needs. Steel design cabinet, best nickel finish, highly polished back, same design and finish adding wheel hands and indicators, made of best steel on which frames are ... and will last forever. Other low priced registers have ... and ... and ... Mechanically ... parts of steel drawer ... springs which ... in cups, same as highest priced registers, all ... parts machined and milled, instead of cast ... Guaranteed for 2 years. Mechanically ... rate. We give ... able ... for years. ... and lid over ... the wheels, ... velvet. 1 in crate, 11 lbs

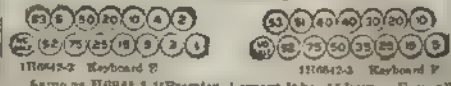
1H6841-1-Keyboard D — 1H6841-2—Keyboard E — Each $72.50

Guaranteed 2 years.



1H6841-2 Keyboard D

The "PREMIER Jr."



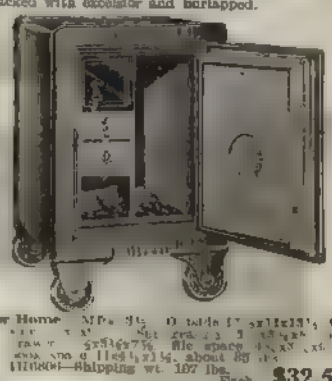
1H6842-2 Keyboard E — 1H6842-3 Keyboard F

Same as H6841-1 "Premier," except it has 15 keys. Keys all nickel plated, lid over adding wheels lined with velvet. Registers from 1c to $5.00 or 5c to $9.00. Fits any store. 1 in crate, 84 lbs

1H6842-2—Keyboard E, 1H6842-3—... — Each $64.50

"MEILINK'S" SAFES

Construction. Best tested steel and iron, special ... of cement and asbestos filling, light and thoroughly dried, old style safes filled only with cement are conducive to dampness and by their greater weight increase freight charges. As much iron and steel in Meilink's safes as in any at these prices, hole work and drag bars, all steel ... cast iron, steel plate, inside and out, heavy cast frames front and back, held by ¾ in. steel stay bolts, double support in door, solid steel ... combination locks, ... castors, hand polished, baked on black enamel, gold and ... ornamental ... decorations, nickel plated and polished knobs, dial plate and hinges, bound carpet in bottom. Each packed with excelsior and burlapped.



For Home—Mfrs. ... 9 inside ... 13½ ... 16 ... 1 ... 1 ... 1

SEWING MACHINES

We guarantee each machine in this line for 10 yrs. Manufactured by one of the oldest and best known makers of sewing machines in the country. Built with every late improvement. These machines are no experiment—they are a perfected product that you can stand back of and know that they will give your trade satisfactory service. When 5 are ordered at a time we will stencil your name on each machine free of charge. **Our prices enable you to meet any competition.**

"PATHFINDER" DROP HEAD STYLE

IN ordering repair parts for sewing machines, serial number, catalogue order number and name of machine must be given.

Short Sewing Machine Needles
1H6945 Short needles. Fit the following sewing machines: New Home, Arlington, New Standard, Liberty, and other of a similar size.
Doz. 28c
Gro. $3.00

Long Sewing Machine Needles
1H6946 Long needles. Fits the following machines: "Honeymoon" and "Pathfinder" and other of a similar size.
Doz. 28c
Gro. $3.00

The "Pathfinder" Sewing Machine is of unequaled quality for the money. It is constructed to meet the demand for a low priced machine of good quality. Will do all kinds of sewing, and will handle material of any thickness.

The sewing head makes the lock stitch, the same as higher grade heads, and has a self-threading shuttle and large, long bobbins. Fitted with automatic bobbin winder.

The tension is located on top of the arm.

Positive and instantly adjustable. All pressure of the tension on the thread may be instantly released by the use of the patent thread liberator. Work may be removed from the machine without danger of breaking the thread or needle.

1H6783—Without Attachments—4 side drawers and large center drawer, light golden oak woodwork. 1 in crate, 118 lbs.
Each, **$31.50**
Lots of 3, " **30.50**

1H6771—With Full Attachments, as above. 1 in crate, 120 lbs.
Each, **34.75**
Lots of 3, " **33.50**

"HONEYMOON" SEWING MACHINES

Compares favorably with the better grade agency machines. Handles wonderful range of work. Anything from the finest of silks to the heaviest of suitings. Simply constructed and has many new labor saving features. Full sized, high arm head. Makes a perfect lock stitch. Has double four-motion type feed. Simple and efficient tension. Self threading shuttle. Stitch can be regulated to run 7 to 24 stitches to the inch. Automatic bobbin winder. The woodwork is a beautiful golden oak design, superior to any other machine in this class. The ornamentation is carved and embossed in elegant design, making this machine a welcome addition to the furniture of any home. The overlapping drawers are full length. Attachments and accessories with each machine.

Drop Head Style—

1H6777—4 side drawers, 1 in crate, 120 lbs. Each, **$33.50**
Lots of 3 " **32.25**

1H6778—6 side drawers, 1 in crate, 127 lbs. Each, **$34.85**
Lots of 3, " **33.50**

Automatic Lift Drop Head Style—

1H6779—4 side drawers, 1 in crate, 123 lbs. Each, **$35.00**
Lots of 3 " **33.75**

1H6780—6 side drawers, 1 in crate, 134 lbs. Each **$36.50**
Lots of 3 " **35.25**

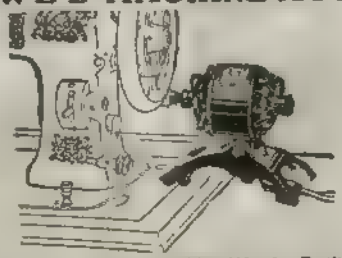
"LIBERTY"

Automatic Lift Drop Head Style

1H6794—Sewing machine head is the newest, most improved and easiest operated made, simple in construction, ball-bearing throughout, self-threading shuttles extra large in size, holding one of the largest bobbins used on any machine. Improved take-up insures even tension and perfect stitch, regardless of the size of thread or kind of material used. Side disc tension is equipped with automatic tension release. Four-motion feed has teeth on both sides of the needle. Stitch regulator is instantly adjusted to provide stitches from seven to twenty-four to the inch. New Colonial style cabinet unusually massive and exceptionally handsome, best quarter sawed oak hand rubbed to a piano finish, 6 large drawers with polished oak knobs. Automatic head lift brings head into position with one motion. Equipped with full set of attachments and accessories.

1 in crate, 135lbs. Each, **$45.75**
Lots of 3 " **44.25**

"SEW-E-Z" MACHINE MOTOR



1H6769—Fits any sewing machine, 110 volt. Easily adjusted strong and durable "Universal" type motor operates on direct or alternating current, can be attached to socket for electric light socket. Motor complete with plug cord [illegible] in box.
Each, **$13.00**
Lots of 6 **12.50**

WRITE FOR THIS FREE CATALOGUE

There never was a better time to get into the sewing machine business.

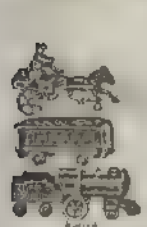
YOU can depend on our Sewing Machine Catalogue to assist you in making sales. It is illustrated in colors and contains complete comprehensive descriptions—quotes no prices. Write for this FREE catalogue now. Show it to your customers WHEN MAKING SALES.

IRON TOYS

Indispensable merchandise that should be given an elaborate display in every store selling toys. Being the country's largest distributers in toys we can offer values hard to duplicate. Comparison will prove that. The majority of numbers shown come in assorted styles, giving you a bigger variety, thus making it easier to sell the goods. **Our prices are right.**

POPULAR PRICED IRON TOYS

Painted in bright colors. Note that we assort 3 or more styles to most numbers



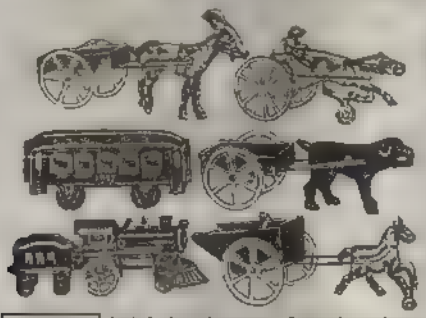
F3074

F3075

F3074—3 styles, aver. 4½ in., pony cart, car, locomotive. Assrtd. 1 doz. in box . . . . . Doz. **92c**

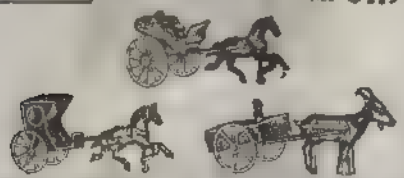
F3075—3 styles, aver. 12½, milky, chariot, cart. 2 with drivers. Assrtd. 1 doz. in box . . . . . Doz. **$1.25**

F3082 5x2½ auto, aluminum finish, red wheels, drivers. 1 doz. in box . . . . . Doz. **$1.75**

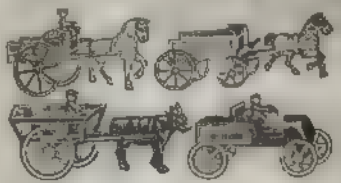


STAR VALUE

F3096—6 styles, aver. 7 in., dog and goat carts, delivery dump cart, locomotive and coach. Assrtd. 1 doz. in box . . . . . Doz. **$1.90**



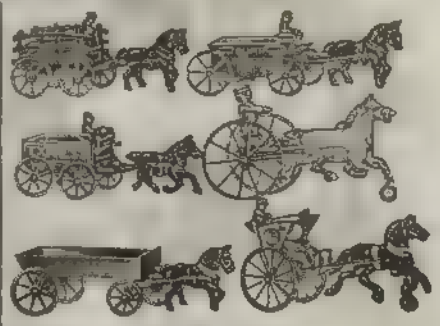
F3094—6 styles, aver. 7x3½, mail, hansom, goat cart, etc., drivers. Assrtd. 1 doz. in box . . . . . Doz. **$2.10**



F3101—4 styles, aver. 6½ in., ox cart, express wagon and coal auto, painted in bright colors. Assrtd. ½ doz. in box . . . . . Doz. **$2.10**

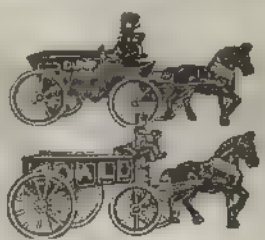
F3099—6 styles, aver. 8½ in., fire engine, hook and ladder, goat, auto, dog and road carts painted in assrtd. colors, with drivers. Assrtd. ½ doz. in box . . . . . Doz. **$2.15**

F3104—6 styles, aver. 8 in., buck board, milky, goat, hansom, dog and road carts, painted in bright colors, with drivers. Assrtd. 1 doz. in box . . . . . Doz. **$2.25**



F3103—6 styles, aver. 9 in., dray, milky, hansom, farm express and dump cart, painted in bright colors. Assrtd. ½ doz. in box . . . . . Doz. **$3.25**

F3098—3 styles, aver. 11½ in., buck board, dray and pony cart, painted in assrtd. colors, gilt trim, drivers. ½ doz. in box . . . . . Doz. **$4.25**



F3097—3 styles, aver. 9½ in., ice dump and coal cart, painted in bright colors, gilt trim, drivers. Assrtd. ½ doz. in box . . . . . Doz. **$4.25**

"BIG VARIETY" IRON TOY ASSORTMENT

A splendid selection of well known staples in iron toys at popular prices. Selections based on our compiled sales record of each item

P444—121 pcs., more than 20 styles including steel ranges, fire toys, trains, carts, wagons and loaded drays. Selection picked from big selling items.

Qty.	pc. to retail for	
4	. . . .	40
15	. . . .	15
18	. . . .	18
21	. . . .	21
30	. . . .	30
3	. . . .	1.00
9	. . . .	3.00

Asst. comprises 111 pcs. 1 asst. to case, 120 lbs. Asst. **$28.00**

LOADED IRON TOYS

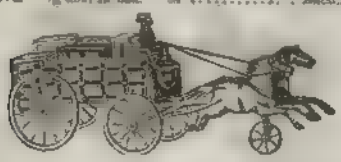
Drays, transfers and auto cars, loaded with facsimile packages and barrels of well known groceries and other merchandise

STAR VALUE

F3110—11x3, red body, yellow wheels, black horse with driver, ½ doz. in box Doz. **$4.50**

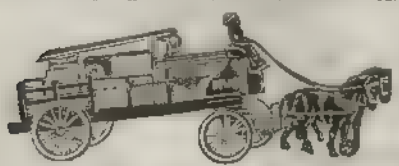
F3112—13½x3¼, yellow body, red wheels, black horse and driver, ½ doz. in box Doz. **$8.90**

F3085—13x3, yellow body, red wheels, 2 black horses and driver, ½ doz. in box Each **$1.00**



F3117—16x4, red body, yellow wheels, 1 white and 1 black horse with driver, 1 in box Each **$1.60**

F3118—20x4, red body, yellow wheels, 2 brown horses driver, 1 in box. Each **$2.15**



Horse Dray—23x8½, green body, yellow wheels, 2 brown horses, gilt harness, driver.
F3124—1 in box. Each, **$2.75**

Auto Trucks—17½x7, green body, gilt trim, drop back, yellow wheels with imit. rubber tires, continuous mud guards, tool box, head and front lights, bumper, chauffeur.
F3111—1 in box. Each **$3.25**

TOY IRONS

F3030 F3029 F3031

F3030—3½ in., "Dover" asbestos, bright polished iron, gilt sides and black painted handle with nickel ends. 1 doz. in box Doz **89c**

F3029—3 in., solid gilt top, aluminum handle, polished bottom and sides with stand. 1 doz. in box. Doz **$1.35**

F3031

F3031—3½ in., solid bright iron sides and bottom, black enameled top, varnished wood handle with stand. 1 doz in box Doz **$1.85**

F3032—3½ in. black enameled top, varnished wood handle heavy bright bottom and sides, with stand. 1 doz. in box Doz. **$2.15**

HOOK AND LADDER TRUCKS

F3113 — 7½x3¼, aluminum finish body, red wheels, driver 1 doz. in box Doz. **$1.75**

F3127—9½x1½, red body, aluminum finish horse and wheels, with driver, ½ doz. in box Doz. **$2.25**

F3135 — 13x2¼, red body, yellow wheels, 2 black and two 8½ yellow ladders, with driver, ½ doz. in box Doz **$4.50**

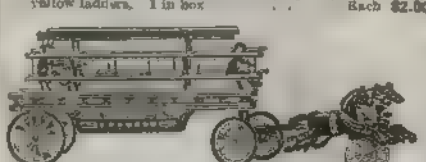
F3132 — 11x3, red body and trim and 2 yellow ladders, yellow wheels, chauffeur and fireman, each in box, ½ doz. in pkg. Doz **$5.40**

F3140—16½x3½, blue body, gilt trim, yellow wheels, black and white horses and fireman, two 16 in. yellow ladders ½ doz. in box Doz **$8.90**

F3142—19x3¼, white enameled body, red trimming and wheels, imitation rubber tires, driver and fireman, 2 black and 1 white horse, with 2 yellow ladders, 1 in box Each **$1.35**

F3179—18x3, red body, gilt trim, yellow wheels, with imitation rubber tires, 1 black and 1 white horse, 2 detachable ladders going, driver, fireman, and [illegible] Each **$1.45**

F3126—20½x3¼, red body, gilt trim, yellow wheels, imitation rubber tires, 1 black and 1 white horse, 2 detachable uprights, going driver, fireman, two 14 in. and one 12 in. yellow ladders, 1 in box Each **$2.00**



F3125—25½x5, nickel plated body, red wheels, imit. rubber tires, 2 black and 1 white horse, gong, driver, fireman, 2 detached uprights, two 14 in. and one 12 in. yellow ladder, 1 in box Each, **$2.50**

FIRE ENGINES

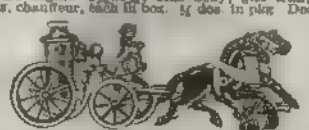
F3117 F3126

F3117—6½x2¼, aluminum finish body, red wheels, driver, 1 doz. in box Doz **$1.75**

F3126—8x1½, red body, aluminum finish horse, wheels and driver, ½ doz. in box. Doz **$2.50**

F3134—10 x2½, black body, yellow wheels, driver, 2 black horses, ½ doz. in pkg. Doz. **$4.50**

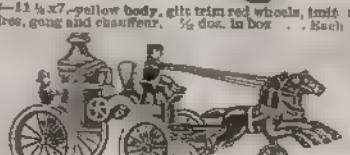
F3130—Fire engine, 8½x3½, blue body, gilt trim, yellow wheels, chauffeur, each in box, ½ doz. in pkg. Doz. **$5.40**



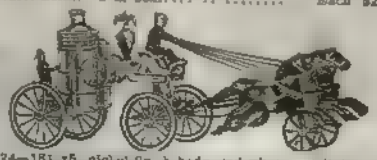
F3139—11½x3½, red body, yellow wheels, imitation rubber tires, gilt trim driver, 2 black and 1 white horses, ½ doz. in box Doz **$8.90**

F3141—14½x3½, white enameled body, red trim, red wheels, imitation rubber tires, chauffeur, fireman, 2 black and 1 white horse, 1 in box Each **$1.25**

F3178—11¼x7, yellow body, gilt trim, red wheels, imit. rubber tires, gong and chauffeur, ½ doz. in box Each **$1.45**

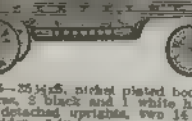


F3119—16½x3½, red body, gilt trim, yellow wheels, imitation rubber tires, gong, hose, driver and fireman, 1 black and 1 white horse, 1 in box. Each **$2.00**



F3124—18½x5, nickel finish body, red wheels, imitation rubber tires, gong and hose, chauffeur and fireman, 2 black and 1 white horses, 1 in box Each, **$2.60**

BELL AND GONG TOYS



F2091—Two 2 in. nickeled wheels, 11½ in. nickel gong, 10 in. wood handle, 1 doz. in box Doz **$2.25**

F2090—5½x5½, copper steel frame, coppered lever handle, strikes on rubber bell, decorated cast horse, painted red rider, nickel wheels, in painted wood handle, ½ doz. in box Doz **$3.75**

F2088 — 3 styles, over 6x5½, painted rough rider jockey and sailor on painted and coppered steel frames, nickeled bells and wheels. Assrd. ½ doz. in box. Doz. **$3.75**

BELL FLOOR TOY

F2455—Full length 16½ in. wide, 3 red painted cast spoke wheels, 6 in. bell, painted double scroll iron, bell attached to strong steel frame, tw steel wire handle, ½ doz. in box Doz **$2.25**

We Catalogue the Strongest Line of—

WHEEL TOYS

on the market and our prices are positively unrivaled in the trade. Be sure to see our BIG LINE OF FULL SIZE BABY CABS.

CHALLENGE WOOD SAWING OUTFITS

NO. 46, ALL WOOD, WITH SWING TABLE, REPLACES NO. 44

HEAVY DUTY

New No. 46 all wood frame is identical with old No. 44, except that it is fitted with slightly heavier mandrel and is reinforced by new steel braces. Frame is constructed of thoroughly seasoned lumber, of the proper size to withstand any strain that can be placed on it in sawing wood; and is securely bolted and braced in every direction.

The shaft is cold rolled steel; and the bearings are cast on a solid iron beam extending the entire length of frame, which holds them in perfect alignment with the shaft at all times. Over the blade we place a substantial shield, to protect the operator against all possibility of being injured.

The table is one of the swing type, pivoted at bottom on a cast bearing.

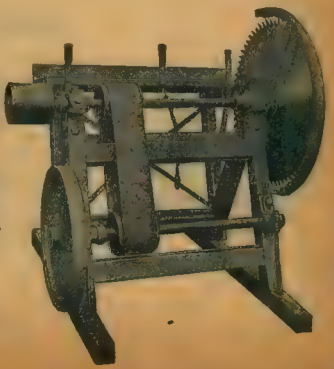
Can be used with saws from 20 inches to 30 inches in diameter. Weight, 300 lbs. Pulley, 6x6. Speed, 1250 R. P. M. Mandrel, 1⅞-inch turned to 1⅝-inch for blade.

No. 46—All wood frame swing table complete with 26-inch blade.

Each ....

NO. 48 WOOD FRAME, WITH SWING TABLE

HEAVY DUTY



Another new outfit that fills a long-felt want for a table that combines all the features of the steel rigs, yet is low in price, as compared to the latter, on account of being made of wood.

Note that it has a tilting table, and at the same time carries balance wheel on separate shaft, allowing of wood or poles being cut in any length desired. This construction also assures the balance and lack of vibration found only in Challenge tables.

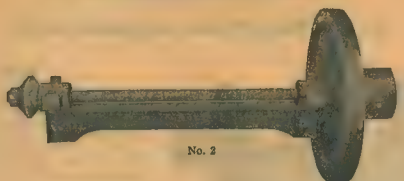
Tilting or swing tables are generally conceded to be superior to other styles in ease of operation, and we therefore believe that this new outfit will prove to be one of the most popular members of the Challenge family.

General construction similar to No. 46 Wood Frame Outfit. Can be fitted with blades 18 to 30 inches in diameter. Weight, 285 lbs. Pulley, 6x6. Speed, 1400 R. P. M. Mandrel, 1⅞-inch, turned to 1⅝-inch for blade. Regularly equipped with 26-inch blade.

No. 48—Wood frame swing table complete with 26-inch blade.

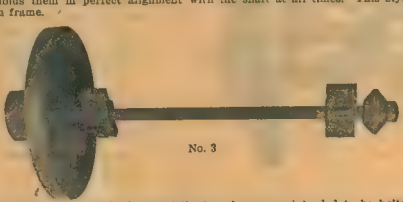
Each ....

SAW MANDRELS



No. 2

Style 2 consists of a 1¼-inch main shaft, 3 feet 10 inches long, one end fitted with 1⅜-inch arbor and flanges, the other end fitted with a 6x6-inch pulley and heavy balance wheel. The boxes are cast on a solid iron beam extending from saw flanges to balance wheel—which holds them in perfect alignment with the shaft at all times. This style is recommended to parties who wish to build their own frame.



No. 3

No. 3 Saw Mandrel is constructed same as No. 2, except the two boxes are intended to be bolted on a timber or support of some kind and are of the self adjusting type, same as used on our saw frames. This style is especially designed for fastening to frames of trucks, and used in connection with gasoline engines.

Saw Mandrels. No Blades

	2	3
No.	132	133
Weight, lbs		
Each		

CROSSCUT SAW BLADES

CURTIS

A saw is a delicate tool. When you stop to think of the thinness of the metal, and the severe work that a saw performs, you can readily understand what we mean when we say that a saw is a delicate tool.

To manufacture a saw that will give satisfaction out of such a thin piece of steel requires a combination of the best talent, widest experience, large facilities, and the most improved methods of production. The makers of our saws have been manufacturing saws and sawmills for over 65 years and the experience thus gained has taught them just how to put into a saw those qualities that make a good blade. They are the only saw manufacturers who have made sawmill machinery, and therefore, have obtained a wider experience than others.

The best steel is used in the manufacture of the saws. The steel is made to their own analysis, selected by repeated tests in their own chemical and physical laboratories. By the use of the latest in heat-recording instruments, they are able to give saws a uniform and tough temper, even to the very points of the teeth.

Every saw, before being shipped, is examined by an expert to see that it has been properly made.

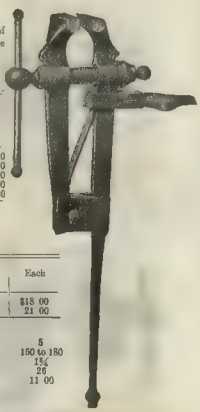
Diam. inch	Thickness gauge	Size hole, inch	Diam. inch	Thickness gauge	Size hole, inch	Diam. inch	Thickness gauge	Size hole, inch
18	13	1¼	24	11	1¼	28	10	1¼
18	13	1⅜	24	11	1⅜	28	10	1⅜
20	13	1¼	26	11	1¼	30	10	1¼
20	13	1⅜	26	11	1⅜	30	10	1⅜

TABLE OF SPEEDS

Saw diameter, inch	18	20	22	24	26	28	30
Speed	2000	1800	1636	1500	1384	1285	1200

Note—In addition to above we can furnish all special styles of saw blades. Prices on application.

SOLID BOX VISES



Front and Back Jaws Forged Frame. One Solid Piece of Steel. There is neither Welded Head nor Welded Leg. The Jaws are Faced with High Grade Tool Steel.

BLACKSMITHS' VISES

Nos.	Weight, Lbs.	Length of Jaws, in.	Depth from Top of Jaw to Top of Box, In.	Vise Opens, In.	Each
35	35	4	3¾	3¾	$10 00
50	50	4¾	4¼	4½	11 50
70	70	5	4¾	5¼	15 00
100	100	6	5½	6	22 00
150	150	7	6½	7	36.00

HORSESHOERS' VISES—Without Anvil

Nos.	Weight, Lbs.	Length of Jaws, In.	Depth from Top of Jaw to Top of Box, In.	Vise Opens, In.	Each
600	60	6	5½	6	$18 00
700	70	6	5½	6	21 00

EXTRA BOXES AND SCREWS

No.	1	2	4	5
Vise Size, No.	25 to 50	60 to 70	100 to 125	150 to 180
Diameter Screw, In.	1⅛	1¼	1½	1¾
Weight Each, Lbs.	8	12	18	26
Each	$3.50	4.00	6.50	11 00

COMBINATION ANVILS AND VISES

CHENEY'S
Chilled Face Anvil, Cast Steel Vise Jaws

No.	10	20	30	40
Width of Jaws, In.	2½	3½	4	4½
Face of Anvil, In.	4½x2	6½x3	8x3½	8½x4
Weight, Lbs.	9	25	36	50
Each	$4 20	5.40	6.60	7.80

JULIEN
For Farmers, Repair Shops and Light Forging Purposes

Each

No. 2—Cast Iron Body, Polished Face; Parallel and Pipe Jaws; Jaws extend 6 in.; ¾ in. Screw; Has Solid Screw Box with Improved Fastening; Will Hold Pipe from ¼ to 2 in. in Diameter. $2 40
Weight, 21 Lbs. Each

DIAMOND

Each

Diamond—Anvil Face 2x7, Jaws 4 in. Wide, Clamps Pipe up to 2 in.; Jaws Open, 12 in.; Weight 36 Lbs. $5 00
One in a Box

VISE, With Drill Attachment

Each

Diamond—Takes Bit Stock Drills up to ⅝ in. $7.00
Weight Each about 15 Lbs.

COACH MAKER'S VISES

STATIONARY BASE

Cast Iron Body; Welded Steel Faced Parall'el Jaws; Polished Steel Screw and Slide Handle, Polished Jaws and Slide.

No.	146
Width of Jaws, In.	4½
Jaws Open, In.	7
Depth of Face, In.	2¾
Weight Each, Lbs.	64
Each	$17 50

SWIVEL BASE

Cast Iron Body; Welded Steel Faced Parallel Jaws; Polished Steel Screw and Slide Handle, Polished Jaws and Shoe.

No.	246
Width of Jaws, In.	4½
Jaws Open, In.	7
Depth of Face, In.	2¼
Weight Each, Lbs.	77
Each	$22 50

GARAGE VISES

COLUMBIAN—"Sledge-Texted"

This Vise is specially designed for Car Owners' use. It is made of Malleable Iron and Steel and is twice as strong as the cheap iron vises commonly sold to Motorists.

	Each
No. 143—Width Jaws 3 in.; Jaws Open, 3½ in.; Wt. 12 Lbs.	$5 00
No. 144—Width Jaws 4 in.; Jaws Open, 6 in., Weight, 30 Lbs.	8.25

Packed One Vise to a Carton

HAND VISES

STEARNS

This little Vise is so constructed that any rod up to ¼ in in diameter can be run clear through it and the Vise may be clamped at any place on the rod.

	Per Dozen
No. 21 Malleable Iron, Hinged Jaws finished in Aluminum. Width of Jaws, 1¼ in., will open 1¼ in., Checkered Face, Polished Head; Adjusted by Steel Bolt Wing Nut, Steel Spring between Jaws	$6 00

Half-Dozen in Cardboard Box; Weight per Dozen, 6 Lbs.

COMBINATION ANVILS AND VISES

AUTOVISE

Especially Adapted for Automobile Repair Work; Suitable for All Kinds of Repair Work

Special Alloy Casting, Cold Rolled Steel Screw and Handle; Crucible Cast Tool Steel Jaws Carefully Hardened; Malleable Iron Nut

Stationary Base	Each	Swivel Base	Each
No. 231—Width of Jaws, 3 in.; Capacity for Pipe, ½ to 1½ in.; Weight 32 Lbs.	$10.00	No. 241—Width of Jaws, 3½ in.; Capacity for Pipe, ½ to 2 in.; Weight 80 Lbs.	$16.00

Open Stock

BASE BALLS

GOLDSMITH'S

ATLANTIC

Per Dozen

No. 45—Regulation Size, Made of Compressed Wool Felt, Yarn Wrapped; Good Quality Water Proofed Cover; Very Lively and Durable.....$3.60
One in a Carton; One Dozen in a Box
Weight per Dozen, 4 Lbs.

CHAMPION

Per Dozen

No. 17—Slightly Under Regulation Size; Made with Care and Attention; Double Stitched, Waterproofed Cara Cover.....$2.25
One Dozen in a Box
Weight per Dozen, 4½ Lbs.

BOYS' PRACTICE

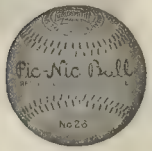
In Size, Material and Workmanship, this is the Best lowest priced Ball made

Per Dozen

No. 35—Firm Center, with a Carefully Stitched, Waterproof Cara Cover..$1.50
One Dozen in a Box
Weight per Dozen, 3½ Lbs.

PICNIC OR PLAYGROUND BALLS

Made Soft—Will Not Sting the Hands



Pic-nic Ball

Per Dozen

No. 28—**Practice Indoor Ball;** Sheep Skin Cover, 12 in. in Circumference.....$7 20
One Dozen in a Box; Weight about 4½ Lbs.

No. 26—**A Large, Soft Ball,** Made of Hair and Covered with Best Sheepskin; 11½ in. in Circumference; An Ideal Ball for Outings and Picnics, for Young and Old.....3.60
One Dozen in a Box, Weight about 4½ Lbs.

No. 9—**Little Indoor;** A Soft Ball, with Pearl Sheepskin Cover; Very Popular for Picnics and Outings.....1.50
One Dozen in a Box; Weight about 4 Lbs.

Wally Schang

BASE BALL MASKS

SPITTER

A Mask for Absolute Protection

Each

No. 273—Constructed of Strong, Cold Drawn, Annealed Double Steel Wire, Dull Finish, Open Vision Style. Electrically Welded Joints; Soft, Easy Fitting, Hair Filled, Leather Cushions and Chin Pieces; Elastic Web Head Piece with Adjustable Buckle and Strap.....$8 00
Weight Each about 2¼ Lbs.

SPITTER STYLE

Each

No. 271—Spitter Style Removable Sunshade, which Protects the Eyes from the Sun. Open Vision; Made of Cold Drawn, Annealed Steel, Dull Finish; Electrically Welded Joints. The Soft, Hair-Padded Cushions Absorb all Shock; Adjustable Strap and Buckle.....$6 00
Weight Each about 2¼ Lbs.

Each

No. 266—Heavy, Electric Welded Steel Wire, Dull Finish, Soft, Hair-Filled Cushion. A Well-Built Mask, Made to Conform to the Face; Weight Each about 2½ Lbs.....$4 50

No. 284—Open Vision Style of Heavy, Cold Drawn Steel, Welded Joint Construction, Hair Padded, Face Fitting Leather Cushion, Elastic Web Head-piece, with Adjustable Straps; Weight Each about 2 Lbs.....3 75

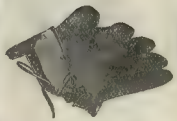
No. 281—Strong, Electric Welded Black Steel Frame; Laced, Leather Side Pads; Adjustable Head and Forehead Pieces. Weight Each about 2 Lbs. 2 75

No. 254—Strong, Black Enameled Wire, with Welded Joints; Leather Side and Chin Pieces; Adjustable Head-piece; A Youth's Mask; Weight Each about 1¾ Lbs.....1.35

FIELDERS' GLOVES

GOLDSMITH'S

Cut Shows Model TB



Showing Laced Wrist for Opening the Glove to Adjust Padding

Cut Shows Models XL, G and 93

Each

Model TB—An Extra Large, Easy Fitting Model. Made of the Finest Tan Horsehide, Oil Tempered by Special Process, Adding Life as well as Flexibility to the Leather. Ready-Broke for Immediate Use. Full Kid Lined, and Padded with Best Quality Improved Felt. Laced Wrist to Permit Adjusting of Padding.....$10.00

Weight Each about 12 Ounces

Model XL—"Christy Mathewson and Jeff Tesreau." The Leather Used in this Glove is Genuine, Drab Velvet Finish Horsehide. Full Leather Lined, with Tan Welted Seams. Well Padded in the Thumb, Heel and Little Finger, producing a Natural Pocket. Laced Wrist for Adjusting Padding. Will Give Satisfactory Service..... 8.00

Weight Each about 12 Ounces

Each

Model G—"Heine Groh." The Leather Used in this Glove is Genuine, Drab Velvet Finished Horsehide; Full Leather Lined, with Tan Welted Seams; Well Padded in the Thumb, Heel and Little Finger, Producing a Natural Pocket; Laced Wrist for Adjusting Padding. Will Give Satisfactory Service.....$7.50

Weight Each about 12 Ounces

No. 93—"Professional Model." An Easy-Fitting, Full Sized Glove of Highest Quality Flexible Horsehide; Full Leather Lined, with Welted Seams. Well Padded Throughout, making a Deep, Ball-holding Glove; Laced Wrist for Adjusting Padding, an aid to rapid and accurate fielding..... 7.00

Weight Each about 12 Ounces

Each

No. 73—Made from Strong Pearl Sheepskin; Leather Lined, with Welted Seams. Well Padded, with Laced Wrist for Adjusting Padding. Best of Materials and Workmanship. . .$5 50

Weight Each about 12 Ounces

No. 69—Choice Chrome Tanned Grain Leather; Full Leather Lining, with Laced Wrist; Padded to make a Natural Pocket. An unusual value at a moderate price... .... . 4 50

No. 69L— For Left Hand Players 4 50

Weight Each about 12 Ounces

Edward Grant, former Philadelphia, Cincinnati and New York third baseman, was the first major leaguer to be killed in battle. Cliff Markle, former Cincinnati and New York pitcher, was the first big leaguer to be taken prisoner.

Cut Shows Nos. 73 and 69

PIECED WARE

NEW MODEL CREAM SEPARATORS

EXL polished charcoal tin [illegible] Trade Art. No. Wt. Each T7480 1 gal 15½ lbs $4.50 T7481 1½ 16½ 5.00 T7482 2 18 5.50

ALL STEEL CHURNS

All steel [illegible] Trade Art. No. Wt. Each T7396—7 qt. 30 lbs. 7.95

"Iowa" Pattern [illegible] Trade Art. No. Wt. Each T7750—8 qt. 15 $4.25 T7760—10 " 17 5.50

New Eight [illegible] Trade Art. No. Wt. Each T7800 8 qt. 15 $4.45 T7810—10 " 17 6.70

Hercules [illegible] Trade Art. No. Wt. Each T7820—8 qt. 15 $4.60 T7830—10 " 17 5.80

"New York" [illegible] Trade Art. No. Neck In. Wt. Each T7701 1 qt. 6½ 6 $6.50 T7702 2 " 6 7.50 T7703—10 " 7¾ 7.85

"DAZEY" CHURNS

Guaranteed. [illegible]

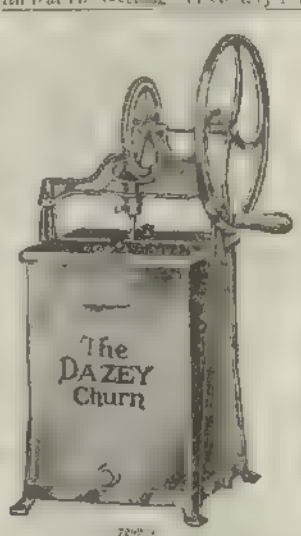
Family Size, Glass—Will make [illegible] butter from 1 lb butter [illegible] 3 Qt. Size— [illegible] Doz $14.00 T7283 Jar only, 1 per carton Doz $4.50

4 Qt. Size— [illegible] 75 lbs Doz $17.25 T7285 Jar only, ¼ doz. in carton Doz $5.25

4 Qt. Size— 280—Churn complete, 84 lbs Doz. $22.00 T7284—Jar only, ¼ doz. in carton " 7.50

6 and 8 Gal., Tin—Dark olive Japanned cut-rail body of IX [illegible] plated tin plate, other parts best gray iron castings, aluminum painted hard white maple dasher and cover, steel lash rod flipped in block to form a rustproof sanitary coating varnished, black enameled wood knobs, tin faucets with screw caps. 1 in crate. T7282 6 gal. crated 18 lbs. Each $3.10 T7283—8 gal., crated 19 lbs. Each $3.85

4 Gal. Tin As above with nickeled brass fittings [illegible] crate 38 lbs T7285 4 gal. crated, 30 lbs. Each $4.85 T7286 6 gal., crated 37 lbs. Each $5.85 " 10.00

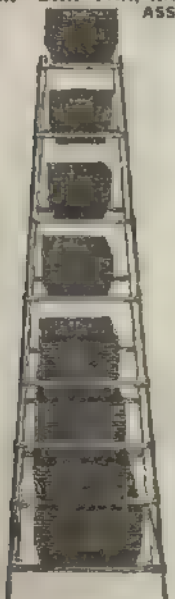


T7282 6 gal. crated 18 lbs. T7283-85-87

"BANNER" DRIP PANS AND ROASTERS

Heavy gauge good quality ware that gives satisfaction keep a complete showing of sizes and you will reap many profitable sales. In buying from Butler Brothers you get the market's [illegible] We [illegible] Banner brand [illegible] Order your needs now

"BANNER" DRIP PAN, RACK ASSORTMENT



T1401—Asst. consists of 1 doz. each 7x10 8x10, 8x12, 7x14, 9x14, 10x15, 11x16 and 12x17 black sheet iron drip pans. Made of best grade [illegible] ends, fully wired [illegible] strip steel, 0⅝ in. high, 1 in. deep, 18 in. wide, [illegible] to 12x17 in. Total 8 pans, including rack Doz. $2.05 (Total $16.10)

"BANNER" SHEET IRON DRIP PANS

[illegible] wired all around [illegible]

Size	Lbs. per doz.	3 doz. in crate 12x24	1 doz. in crate 12x24
T1401 7x10	15	$1.35	$1.50
T1402 8x10	21	1.65	1.80
T1403 8x12	30	1.95	2.10
T1404 7x14	30	1.95	2.10
T1405 9x14	35	2.05	2.25

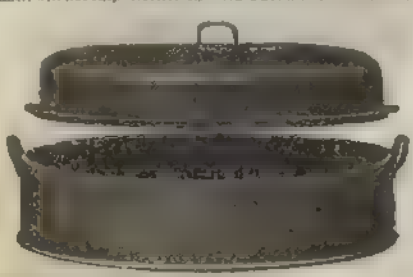
Size	Lbs. per doz.	Doz.	Doz. in crate
T1408—10x14	34	$2.10	$2.25
T1410 10x15	38	2.40	2.55
T1413 11x16	46	2.85	3.00
T1415 12x16	56	3.10	3.25
T1411 12x17	67	3.10	3.25

"BANNER" POLISHED IRON ROASTING PANS

[illegible] Lbs. per doz. Doz. T1806W 8x12 [illegible] 24 $4.20 T1807W 9x14 [illegible] 28 4.95 T1808W 10x15 [illegible] 37 $5.75 T1809W 10 [illegible] 9x16 43 6.50 T1810W [illegible] 47 8.10

"BANNER" ENAMELED ROASTERS

Extra heavy full finish steel [illegible] chip black, white flecked enamel, will not chip, electrically welded handles on bodies and covers, [illegible] bottoms do not rest on oven [illegible]



Raised Foot ¼ doz. in carton [illegible] Doz $31.50

Tetra Oat [illegible] Double Bottom [illegible] Doz $37.50

"PERFECTION" WASH BOILERS

When you purchase your requirements here you obtain wash boilers that **do not leak**, the kind of values that your customers will appreciate and buy. Each of these numbers is full weight standard size, heavy paper wrapped and securely crated, insuring safe delivery. Our low prices merit your orders. **Weights given are per doz.**

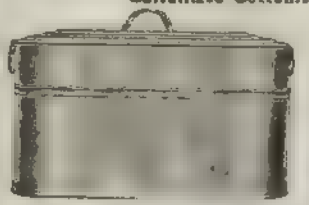
PERFECTION NO WASH BOILER Banner Stamping Works

ALL TIN WASH BOILERS

All IC tin, swaged body, heavy drop handles, stamped tin cover, 1 doz. in crate

T7538 11x20½, 100 lbs. Doz. $15.75
T7539 12x22½, 140 lbs. " 17.50

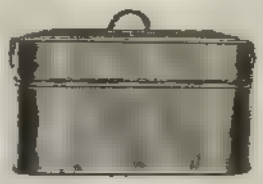
TIN WASH BOILERS —Galvanized Bottoms



IC tin, galvanized bottom, swaged body heavy drop handles stamped tin cover, ½ doz. in crate

T7538—11x20½, 80 lbs. Doz. $16.85
T7539—12x22½, 100 lbs. " 18.75

TIN WASH BOILERS —Copper Bottoms



IC tin, copper bottom, swaged body heavy drop handles stamped tin cover, ½ doz. in crate

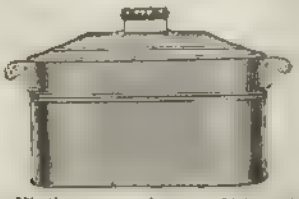
T7688—11x20½, 90 lbs. Doz. $21.75
T7689—12x22½, 100 " " 24.75

GALVANIZED STEEL WASH BOILERS—Tin Covers

Heavy galvanized steel, staple, swaged body heavy drop handles, stamped tin cover, ½ doz. in crate

T1188—11x20½, 97 lbs. Doz. $17.50
T1189—12x22½, 110 " " 19.20

IX, IXX AND IXXX TIN WASH BOILERS—Copper Bottoms

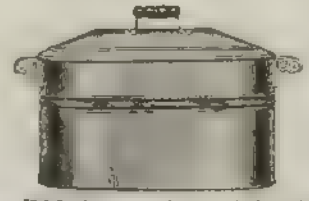


IX tin, copper bottom, high grade, swaged body, ¼ in rod around top, stamped tin cover, stationary wood handles on boiler and cover, ½ doz. in crate

T7628—11x20½, 120 lbs. Doz. $29.85
T7629 12x22½, 140 " " 34.25
T7630—13x23½, 152 lbs. " 38.50

IXX tin, copper bottom, high grade, swaged body, ¼ in rod around top, stationary wood handles on boiler and cover, ½ doz. in crate

T7638—11x20½, 128 lbs. Doz. $32.90
T7638W 12x22½, 144 lbs. " 37.00
T7640—12½x23½, 170 " " 41.25



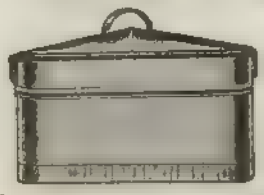
IXXX tin, copper bottom, high grade, swaged body, ¼ in rod around top, stamped tin deep rim cover, stationary wood handles on boiler and cover, ½ doz. in crate

T7648—11x20½, 132 lbs. Doz. $39.90
T7649—12x22½, 150 " " ★ 9.50
T7650—12½x23½, 200 " " ★44.75

Galvanized steel, swaged body, stationary wood handles on boiler and cover, blue band top and bottom, deep rim stamped IXX tin cover, ¼ doz. in crate

T1608—20½x11x17, 132 lbs. Doz. $25.20
T1609—21½x11½x18, 144 lbs. " 29.25
T1610—23½x13½x13, 172 " " 32.90

TIN WASH BOILERS —Copper Bottoms and Rims



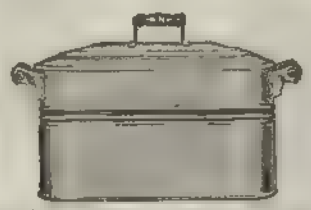
IC tin, copper bottom and rim, swaged body, heavy copper rim, drop handles, packed ½ doz. in crate

T7488 [illegible] lbs. Doz. $32.25
T7489 [illegible] 10 " 35.00

CHARCOAL TIN WASH BOILERS—Copper Bottoms

IX charcoal tin, copper bottom, high grade, deep rim stamped cover of IXX tin, stationary wood handles on boiler and cover, ½ doz. in crate

	Length	Width	Depth	Lbs.	Doz
T7888	20½	11	13	180	$36.75
T7889	21½	11½	13	200	41.50
T7905	23½	12½	13	256	45.00



IXXX charcoal tin, copper bottom, high grade, deep rim stamped cover of IXX tin, stationary wood handles on boiler and cover, ½ doz. in crate

	Length	Width	Depth	Lbs.	Doz
T7848	20½	11	13	190	$39.75
T7849	21½	11½	13	210	43.50
T7950	23½	12½	13	240	47.75

Silvertone aluminum finish IXXX galvanized steel hybrid of pure tin for swaged body, double seamed, stationary wood handles on boiler and cover, stamped from 1 piece heavy tin with deep tin blue bands top and bottom, ½ doz. in crate

T1618—22½x12½x13, 180 lbs. Doz. $35.75
T1619—24½x13½x13, 195 " " 39.00

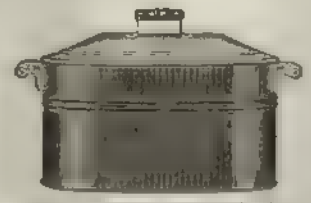
IX tin copper bottom and rim swaged body, 2 in. copper rim, ¼ in. rod around top, [illegible] wood handles on boiler and cover, ½ doz. in crate

T7868 [illegible] lbs. Doz. $36.50
T7869 [illegible] " " 41.25
T7870 [illegible] 240 lbs. " 46.50

ALL COPPER WASH BOILERS

12 oz. all copper, guaranteed full wt swaged body, heavy drop handles, stamped tin cover, 3 in crate.

T9168—11x20½, 138 lbs. Each $4.95
T9169—12x22½, 153 " " 5.75



14 oz. all copper, guaranteed full wt swaged body, ¼ in rod around top, IXX tin cover, stationary wood handles on boiler and cover, 1 in crate.

	Length	Width	Depth	Lbs.	Each
T9219	21½	11½	13	16	$5.25
T9220	23½	12½	13	19	6.60

SEE INDEX FOR

"Aladdin" Electric Washing Machines

"ALADDIN" Electric Washers embody every modern feature for thorough laundering of clothes. The efficient performance of the "Aladdin," economical operation and ability to thoroughly clean clothes without wear or tear are points of advantage merchants will quickly recognize as important to prospective users.

ASSORTMENT—3 Styles, 1 Size

T7499—Size of each boiler 22½x11½x12½.
½ doz. IX tin, copper bottom
½ " IX tin, copper rim and bottom,
½ " full galvanized.
Total 6 in crate, 85 lbs. CRATE of 6, $20.25

ASSORTMENT—4 Styles, 3 Sizes

T7490—Will take a nested tinware solid rate. 1 each of the following

10	tin, copper bottom,	22½x11½x12½,	
10	" " "	23½x11½x13,	
IX	" " "	23½x11½x13,	½
IX	" " "	25 x11½x13,	½
IX	" " "	and rim 23½x11½x13½,	
IX	" " "	25½x11½x13½,	

Total 6 in crate, 80 lbs. CRATE of 6, $20.50

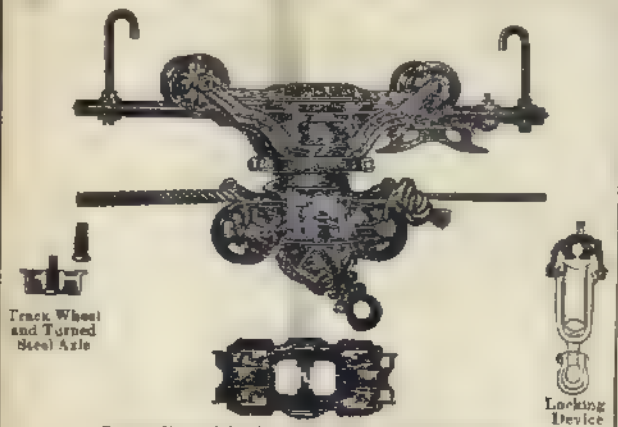
ASSORTMENT 3 Styles, 1 Size

T7500—Size of each boiler 22½x11½x12½
½ doz. IXX tin copper bottom
½ " IXX tin copper rim & bottom
½ " 14 oz., all copper
Total 6 in crate 95 lbs. CRATE of 6 $32.25

CLOVER LEAF UN-LOADERS

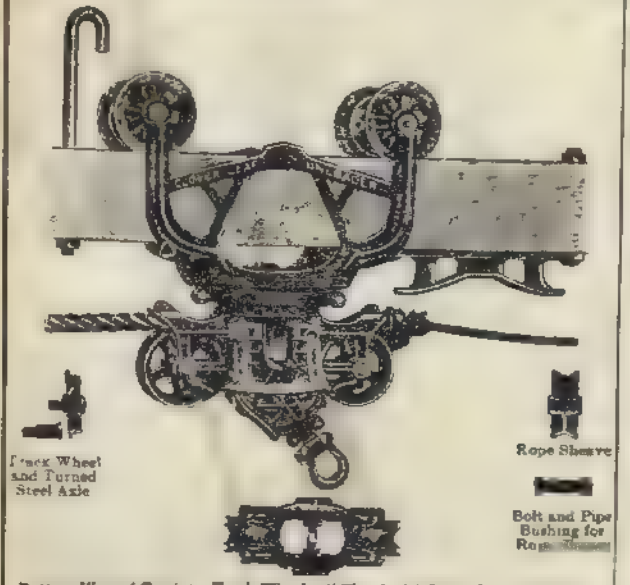
Swivel and Reversible. With ⅞-In. Axles and Swinging Fork Pulley

Malleable Iron. Fitted with Wide Open Mouth. Fork Pulley. Aluminum Finish, Red Striped. Beaded Frame Wt., Abt 27 Lbs



Bottom View of Carrier, Illustrating Wide Open Mouth

No. 1031—For Double Steel Track . Each **$14.00**



Bottom View of Carrier. Track Wheels all Fitted with Large Turned Bearings

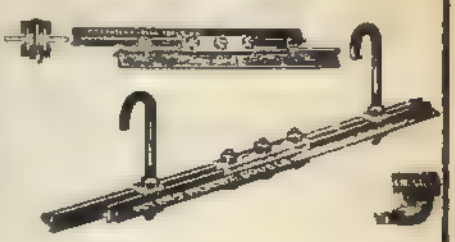
No. 1032—For Wood Track... Each **$14.00**

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

MYERS DOUBLE METAL RAIL TRACKS

FOR CLOVER LEAF CARRIER

Made of Two T Steel Nails Held Together by Bolted Clamps as well as by Clamps on Hanging Hooks. Joints Secured with Three-bolt Clamp, in 6 and 12 Ft. Lengths. Complete with Clamps



No. 824—Wt., Per Ft., 2¼ Lbs..... Per Foot **$ .60**

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

MYERS STEEL TRACK HANGING HOOKS

Used for Hanging Double Angle Steel Track.

No. 3026—Length, 6 Ins. Wt., Per Doz., About 9 Lbs..... Per Dozen **$2.80**

No. 30210—Length, 10 Ins. Wt., Per Doz., About 10 Lbs..... **3.80**

Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory

HARPOON HAY FORKS

HARRIS REGULAR DOUBLE

25 Inches from Cross Brace to Point and 18 Inches in Width

Each

No. 288.... **$3.85**

MEYERS NELLIS LOCK

Made of Spring Steel Sets with One Lever and Locks Either Open or Closed Has 50 Per Cent. more Capacity than Old Style Owing to Cross Bar Being Placed Nearer Top.

Each

No. 773. . . . . **$7.20**

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

COAL MINERS TOOLS

Made from the Very Best Grade Material, Carefully Tempered and Inspected. Each Article Fully Warranted

BREAST DRILLS

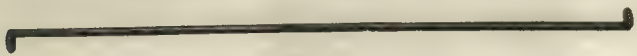
For Use in Soft Coal; Simple in Style; Easy to Operate

	Per Dozen
No. 1—Single Crank; Length Twist, 3 ft.; Length Overall, 6 ft.; Weight Each 12 Lbs.	$48 00
No. 11—Double Crank; Otherwise same as above	56 00

SINGLE END SCRAPERS

Natural Finish Norway Iron; ⅝ in. Diameter; Width of Turned Scraping End 1¼ in.; Loop Handle

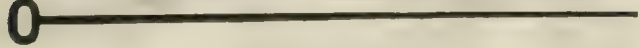
	Per Dozen
No. 2—Length, 6 ft.; Weight per Dozen, 30 Lbs.	$4 80



DOUBLE END SCRAPERS

Natural Finish Norway Iron, ⅝ in. Diameter; Width of Turned Scraping Ends, 1 in.

	Per Dozen
No. 3—Length, 6 ft.; Weight per Dozen, 30 Lbs.	$4 80



NEEDLES

Polished; ⅜ in. Diameter at Top, Tapering to Point; Loop Handle

COPPER	Per Dozen	IRON	Per Dozen
No. 4—Length, 6 ft.; Weight per Dozen, 38 Lbs.	$32.50	**No. 5**—Length, 6 ft.; Weight per Dozen, 32 Lbs.	$9.20
	Loose		

SINGLE BIT TAMP DRILLS

Wrought Iron, Natural Finish; 1 in. Body with Tamper on One End and 8½ in. Tool Steel Bit on the Other End; Bit 2½ in. Cut.

COPPER TAMP 6 INCHES	Per Dozen	IRON TAMP	Per Dozen
No. 6—Length, 6 ft.; Weight per Dozen, 180 Lbs.	$48.00	**No. 7**—Length, 6 ft.; Weight per Dozen, 175 Lbs.	$22 00
	Loose		

PICKS

RAILROAD

HICKORY
One Chisel and One Diamond Point

Soft Steel Body, Oil Finished, Adze Eye, with Highest Grade Crucible Steel, Polished Bit and Point

Weights Assorted, Lbs.	5 to 6	6 to 7
Length over all, In.	21 to 23	23 to 25
Per Dozen	$14.00	16.00

LAKESIDE
One Chisel and One Diamond Point

Adze Eye, Solid Cast Steel, Carefully Tempered and Oil Finished, with Polished Bit and Point.

Weights Assorted, Lbs.	5 to 6	6 to 7	8
Length over all, In.	21 to 23	23 to 25	26
Per Dozen	$14.00	16.00	37.00

Two Dozen in a Case.

VERONA RAILROAD CLAY
One Chisel and One Diamond Point.

Adze Eye, Solid Crucible Steel, Oil Finished; Polished Bit and Point.

No.	7
Weights Assorted, Lbs.	6 to 7
Length Over all, In.	25 to 26
Per Dozen	$10.00

DRIFTING
Verona; Oil Finish

Solid Crucible Steel; Adze Eye; Hardened Points; Oil Finished.

Nos.	22A	22B	22C
Weight Each, Lbs.	4½	5	5½
Length over all, In.	22	23	24
Per Dozen	$12.00	14.00	16.00

Two Dozen in a Case.

DRIFTING
Adze Eye, Crucible Cast Steel, Oil Finish

Nos.	2	3	4	5
Weight Each, Lbs.	4	4½	5	6
Length over all, In.	22	22	24	25
Per Dozen	$14.00	15.00	16.00	17.00

Two Dozen in a Case

COAL
Adze Eye, Crucible Cast Steel, Oil Finish

Nos.	1	2	3
Weight Each, Lbs.	2	2½	3
Length over all, In.	15	17	18
Per Dozen	$8.50	9.00	9.50

Three Dozen in a Case.

POLL
Octagon Poll, Adze Eye, Crucible Cast Steel, Oil Finish

Nos.	1	2	3
Weight Each, Lbs.	3½	4	4½
Length over all, In.	14	14½	15½
Per Dozen	$15.00	16.00	17.00

Dozen in a Case.

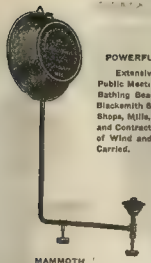
DRIFTING PICK EYES
Ready for Welding on Steel Points

Adze Eye, Crucible Cast Steel, Oil Finish.

Nos.	3	4	5
Weight Each, Lbs.	4½	5	6
Length over all, In.	13½	13½	13½
Per Dozen	$8.00	9.50	10.50

Three Dozen in a Case.

GASOLINE TORCHES



POWERFUL, STEADY AND BRILLIANT LIGHT

Extensively used and unequaled for Lighting Public Meeting Places, Camping and Picnic Grounds, Bathing Beaches, Tents, Dance Halls, Fruit Stands, Blacksmith Shops, Round Houses, Foundries, Machine Shops, Mills, Factories, Warehouses, Mining, Lumber and Contractors' Camps, etc., will stay lit in all kinds of Wind and Weather, Hard to Damage and Easily Carried.

MAMMOTH
Extra Large Galvanized Tank

	Each
One Burner, Tank Holds 10 Quarts Gasoline	$3.70

ANCHOR
Capacity of Tank, One Gallon

	Each
One Burner	$2.00
Two Burner	3.00
Extra Burner for Nos. 1 and 2 Burners	1.50

KEROSENE TORCHES

Heavy Tin Torches, Zinc Can Screw Fillers, Without Handles

1 SPOUT SWINGING

Nos.	11	12
Capacity, Quarts	1	2
Per Dozen	$5 50	8.50

2 SPOUT SWINGING

Nos.	21	22
Capacity, Quarts	1	2
Per Dozen	$6 00	7.00

BRAZED STEEL TORCHES

Especially adapted to Railroads, Machine Shops, Foundries, Rolling Mills, Blast Furnaces and Mines. Made of heavy sheet steel, brazed with hard brass spelter solder which will not melt at a welding heat. Practically indestructible and guaranteed not to leak.

Per Dozen
No. 84H—2 quarts, One Spout, size 3¼x7 in., Heavy Screw Cap, chained to Torch $13.00

Per Dozen
No. 284H—2 quarts, One Spout; Size 3¼x7 in., heavy 2 in. Screw Cap, chained to Torch $12.50

Per Dozen
No. 85H—2 quarts, Two Spouts; Size 6x6 in., Wrought Iron Top, chained to Torch; Heavy Iron Hook Ball $13 00

All Above Open Stock

CARBIDE MINERS LAMPS

"SHANKLIN'S"

Equipped with Guy's Patented Water Dropper

The Water Dropper used in the Coal Mine While Experimenting, he Shanklin Miner's Lamp was Invented and Perfected by Frank Guy, an Old Experienced tested out the lamp in the mine in his daily work as "Shot Firer" until he fully worked it out and made it as it is the most accurate and thoroughly reliable water feed that has been devised for acetylene lamps Guy's Dropper is fully covered by United States patents granted May 26, 1914 It has a Lever Feed, which Quickly Regulates the Flow of Water and gives Any Size of Flame that is Wanted. The Dropper will not clog, as the Valve is Self-Cleaning.

Note—All Lamps Carried in Stock at Duluth have the Flat Hook. Wire Hook supplied from Factory at Springfield, Ill.

Cut Shows No. 22SL

With 2¾ in. Reflector

Per Dozen

No. 22—Brass Lamp, with Polished Brass Reflector fastened to Lamp with Locknut Screwed on Burner Tube. Reflector Strongly Reinforced on Back to protect from accidents. Intended for use in Rooms or Enteries with High Roofs $16.00

No. 22SL—With **Self-Lighter** Feature, otherwise same as above .. 17.50

Weight Each About 6 Oz.

With Deep 3 in. Reflector

Per Dozen

No. 23—Brass Lamp, with Highly Polished Reflector fastened to Lamp by Locknut Screwed to Burner Tube. Strongly Braced on Back of Reflector to protect from injury $16.30

No. 23SL—With **Self-Lighter** Feature, otherwise same as above .. 17.70

Weight Each About 6 Oz.

Cut Shows No. 28SL

With Deep 2½ in. Reflector

Per Dozen

No. 28—Brass Lamp, with Polished Brass Reflector. Intended for Miners Working in Wet Places or where the Roof is Low. The Reflector is deep enough to protect the burner up from water $16 05

No. 28SL—With **Self-Lighter** Feature, otherwise same as above. . 17 50

Weight Each About 6 Oz.

Cut-Out View Showing Valve Cleaner

SUPERINTENDENT'S HAND LAMPS

Used by Superintendents and All Company Men who prefer a Hand Lamp. Is much used by Hunters, Fishermen and Campers. Can also be worn on the cap. Will Burn from 3 to 4 Hours.

Per Dozen

No. 10—Highly Polished Nickel Plated Lamp and Reflector. Regularly Equipped with 3 in. Deep Reflector, having **Self-Lighting** Feature. Large Hook and Large Folding Handles $28.08

Weight Each About 8 Oz.

COLDWELLS MOTOR LAWN MOWERS

COMBINATION ROLLER

MODEL J

Equipped with the latest up-to-date type of motor, transmission and cooling devices. All materials used throughout, workmanship and finish are of the best. The amount of weight on the rollers is just right, which has been determined by years of experience, and it is so simple that the ordinary laboring man can be taught to operate in a few hours.

Guaranteed to do the work of three men with three horse mowers. It is much lighter than any other "ride type" motor lawn mower ever manufactured.

Equipped With 4-Cylinder Continental Motor, Mayo Radiator and Hood and Coldwells Demountable Cutting Unit

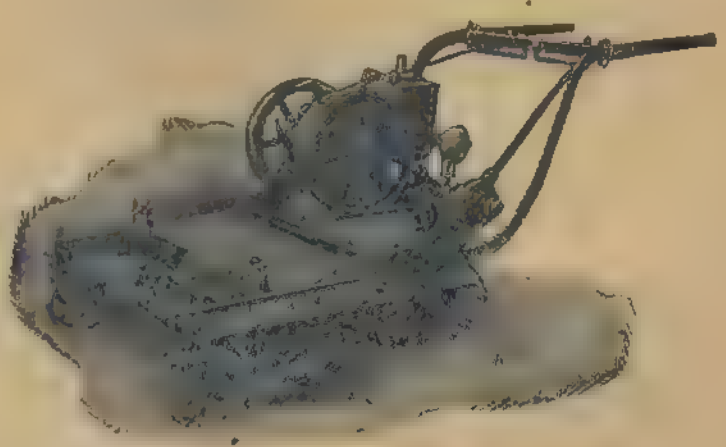
	Model J
No.	
Width of cut inch	40
Length over all, feet	7
Width over all, feet	4
Height over all, feet	4½
Diameter of roller inch	15
Weight, lbs	2000
Price	On Application

LAWN MOWER AND ROLLER COMBINED

MODELS G AND H

A Lawn Mower and Roller Combined

Can be operated and cared for by ordinary laborer, and handled as easily as a hand mower. Operating handles are used for guiding the machine and raising and lowering cutter unit over obstacles. Equipped with differential gears; no brakes necessary for going down hill. Direct chain drive, friction clutch, multiple disc type. All bearings have direct lubrication from either oil or grease cups.



	Model G	Model H
Nos.		
Width of cut inch	35	30
Length over all, feet	5½	6½
Width over all feet	4⅓	4 5/12
Height over all feet	3⅔	3⅔
Diameter of drive rollers, inches	15	15
Gasoline required per hour, gals	½ to 1	½ to 1
Hill climbing ability	25% grade	25% grade
Cutting capacity per hour, acres	¾ to 1	½ to ¾
Weight, lbs	1000	960
Price	On Application	On Application

All above, for factory shipment only.

BARROWS

CONCRETE
TUBULAR STEEL

For handling crushed stone, sand, gravel, mortar or cement. Made of 16 gauge sheet steel. Tubular steel handles pass around wheel, forming wheel guard and rest for dumping. Legs, braces and cross pieces are strong and firmly bolted. Patent steel wheels, 16-inch diameter. Steel wheel No. J1E.

Style	B
Capacity, cu. ft.	4
Length of tray, inch	38¼
Width of tray, inch	23
Depth of tray, inch	13
Length over all, inch	65½
Size of tire, inch	1¾ x ⅞
Weight each, lbs.	70
Each	$18 00

Knocked down. One in bundle

CONCRETE CARTS
K. & J. 1915 MODEL

Extra large crown face wheels, 1¼-inch cold rolled steel axle bent around bottom of the bowl. The bowl is pivoted just back of the center, is well balanced and very easily dumped. Inside dimensions, 20x38½; greatest depth, 20 inches; Capacity, 6 cubic feet. 16x2½-inch Bettendorf pattern staggered spoke wheels; replaceable axle box. Handle is made of one piece pipe. Top edges of bowl are stiffened on both sides and back by heavy angles; lip stiffened by heavy bar.

No.	263
Weight each, lbs.	294
Each	$60 00

Shipped as illustrated.

STEEL BARROW WHEELS
LEWIS PATTERN

Round steel spokes; steel tire; malleable iron hub. The spokes are held firmly in the flanges against the hub, and secured by a head on the outer and a shoulder on the inner side of the tire, thus combining tension and compression strength. Solid hub, 6 inches long and 3-inch axle bearing.

DIMENSIONS OF WHEELS FURNISHED ON WHEELBARROWS

Wheel No.	Diam. Inches	Size Tire Inches	Size Spokes Inches	Length of Hub Inches	Size of Axle Inches	Approx Weight Pounds
J11R	16	1½ x ¾	½	6	½	11
J12	16	1½ x ⅝	⅝	7	⅝	12
J12D	16	1¾ x ⅝	⅝	7	⅝	15
K 11	16½	1¼ x ¼	⅜	6	⅜	10
K 13	16½	1½ x ¼	⅜	6	½	10
K 13A	16½	1⅝ x ⅜	⅝	6	⅝	10
K 14	16½	1½ x ⅝	½	6	⅝	12
K 15	16½	1¾ x ⅝	½	6	⅝	14

CHAMPION

Tee steel handles. Banded and braced trays.

Nos.	31	31½	32	33	34
Size steel in handles inch..	1¼	1½	1½	1½	1½
Diameter of wheel, inch	16	16	17	17	17
Length of tray, inch	30	32	36	38	41
Width of tray inch	25	27	28	30	34
Weight each, lbs.	80½	94	110	117	123
Each	$41.00	48.00	54.00	60.00	63.00

CALIFORNIA STEEL

Angle steel handles with wheel guard. Banded and braced trays.

Nos.	41	41½	42	43	44
Size steel in handles, inch....	1¼	1¼	1¼	1½	1½
Diameter of wheel, inch	15	15	16	16	16
Length of tray, inch	31	32½	37	37	40
Width of tray, inch	26	27	32½	31½	32½
Weight each, lbs	77½	81	114	120	127
Each	$34 00	40.00	44 00	60.00	63 00

CALIFORNIA

Tubular steel handles. Banded and braced trays.

Nos.	51	51½	52	53	54
Size of steel in handles	1¼	1¼	1¼	1½	1½
Diameter of wheel, inch	15	15	16	16	16
Length of tray, inch	31	32½	37	37	40
Width of tray, inch	26	27	32½	31½	32½
Weight each, lbs	80	81	96	108	109
Each	$30.00	36.00	42.00	56.00	58.00

Above barrows shipped set up, unless ordered knocked down.

COLEMAN'S "QUICK-LITE" GASOLINE LAMPS, ETC.

report G-479 dated Sept. 9, 1919 This is the first and only portable gasoline to be so recognized They have stood the test of USE and are recognized as the best

Perfectly Safe. "Coleman 'Quicklite" lamps were favorably passed by the National Board of Fire Underwriters covered by their

COLEMAN'S "QUICK-LITE" GASOLINE PORTABLE LAMPS

Lights with common match, gives 300 c p light Brass fount holds 1 pts gasoline and burns 8½ hours at brass parts nickel plated removable filler plug Complete with shade, pump wrench hanger cleaner pick and extra generator

Rib Shad 10 in 3 in 10 in opal ribbed shade

C2834—1 in carton 9 lbs
Each $6.25

Embossed Shade 10 in 3 in 10 in opal embossed shade

C2836—1 in carton 10 lbs
Each, $6.25

Frosted Glass Shade 4½ nickel ba and adj sup rods 18 in fancy frosted shade 4 side panels with floral ornament 3½ nickel plated band

C2835—1 in carton 11 lbs
Each $6.50

Decorated Opal Shade Holds 8 pts gasoline burns 8 hrs 4 in opal shade decorated in brown and tan tints with delicate vine and small pink roses

C2833—1 in carton, 11 lbs.
Each, $6.75

Kerosene Lamp With kerosene burner as in 2835 except that it is generated with no alcohol torch instead of match.

C2837—1 in carton, 9 lbs
Each, $6.25

"QUICK-LITE" CHANDELIER

Designed for stores, churches schoolhouses homes etc

C2834 — Lights with a match, ht. 27 in fitted with 2 separate Air-O-Lite burners either one or both of which can be lighted as desired, single seamless fount of 18 in gauge brass heavily nickeled, holds 6 pts gasoline, supplies both burners 10 to 18 hrs. Body stem of heavy iron pipe incased in ⅜ in brass tubing, nickel plated, ornamental fittings. Complete with shades mantles pump wrench hanging link and 2 extra generators (1 for each) 15 lbs
Each $12.50

"QUICK-LITE" BRACKET OR WALL LAMP

C2955—Lights with match, holds 3 pts gasoline burns 18 hrs 4 in opal shade parts brass bevel nickel plated removable filler plug, complete with opal ribbed shade mantles pump cleaning tools and extra generator 1 to a case, 1
Each $6.50

COLEMAN'S "QUICK-LITE" LANTERN

No alcohol torch needed. Lights with common match, burns 15 hrs. on one filling. Windproof

C2810 lit 14 in and matching bas to fit holder burns 15 hrs on one filling glass globe opal shade ventilated to burn with chimney Complete with mantles chimney cleaning pick and extra generator 6 in carton, 6 lbs

Ea $5.75

SHADE FOR "QUICK-LITE" LAMPS

C2959—10in ribbed, best quality, opal, fits nickel center draft lamps. ½ doz. in pkg.
Doz $8.00
½ in pkg., Each 75c
Total $1.60)

*PRICES MARKED WITH A STAR (AS 480) ARE SPECIAL" FOR THE CURRENT MONTH—SEE "STIMULATOR" PAGES

MANTLES GAS AND GASOLINE

Reliable Goods Priced Right. We call your particular attention to the completeness of this showing Every mantle represented here is a recognized best value Only the best materials are used in their construction and the factories producing them are recognized as the world's greatest mantle manufacturers.

MANTLES FOR SYSTEMS

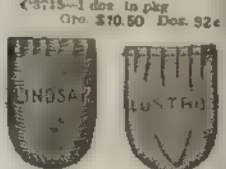
For gravity flo low wire and pressure systems or for use with gasol and kerosene lamps as ind rated Soft, inverted with drawstrings

Showing open ing of wrapped

"Junior Rag" 2½ in 6 cord cotton single weave mercerized cap and twin double suspension for Rayo similar to low wire systems gasoline or kerosene Doz.
C2818—1 doz in pkg $1.35

"Radium"—4½ in 6 cord cotton single weave mercerized cap and twin double suspension for Rayo similar to low wire systems gasoline or kerosene Doz.
C2816—1 doz in pkg $1.35

"Lindsay Jr" in 6 cord cotton single weave mercerized cap and twin double suspension for Rayo similar to low wire systems gasoline and kerosene, each in envelope
C3715—1 doz in pkg
Gro. $10.50 Doz. 92c



"Lindsay" 2 in 6 cord cotton single weave mercerized cap and twin double suspension for Rayo similar to low wire systems gasoline and kerosene, each in envelope
C3712—1 doz in pkg
Doz $1.25

"Lustre" 2 in single weave cotton for use with gasoline and kerosene lamps and lanterns
C3712—1 doz in pkg
Doz $1.30

INVERTED GAS MANTLES

For all standard size gas burners

"Dime" 5 cord cotton single weave mercerized cap and ring Japanese covered in tube labeled "Dime Inverted Gas Mantle." 10 Cents
C3072—50 in box. Doz. 90c

"Usalyte"—6 cord mercerized Sea Island cotton, single weave, magnesia ring self adjusting each in box
C3736—1 doz in carton
Doz 96c

"Dread-naught" Special heavy wall, 6 cord silk fiber thread triple weave cap Lindsay ring and tube
C3711—1 doz in box
Doz $1.35

"DAYLIGHT PRESSURE" UPRIGHT MANTLE

C3681 — 4½ in., 6 cord cotton, single weave, metal cap and twin double suspension for pressure lamps and systems. 1 doz. in box
Doz $1.90

COMPLETE INVERTED GAS LAMP

Complete with inverted mantle and globe.

C3526W—Solid brass burner, lava mouthpiece, needle valve regulator half frosted inverted globe. 1 in box
Each 55c

"WHITE CITY" GAS MANTLES

Fit all standard size gas burners. Well known from coast to coast. Unequaled as the sellers.

C3600 C3616

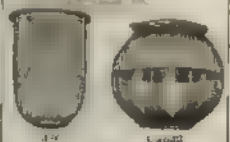
Inverted Double weave cotton thread, circular magnesia suspports.
C3616—1 doz in box
Doz **$1.20**
Gro. $12.75

Upright Loop—6 cord cotton, single weave, magnesia supports.
C3600—1 doz. in box
Doz. **$1.05**
Gro. $11.75

Upright Cap—6 cord cotton, single weave, metal cap, magnesia coated drawn at support
C3616—1 doz in box
Doz. **$1.30**
Gro. $14.75

INVERTED GLASS GLOBES

Fit standard size inverted burners.



C3966 C3622

C3966 Special inner globe, open bottom length 4½ in diam top 2½ fine pearl lead glass, ground top and bottom each in corrugated tube 1 doz in pkg
Doz $1.20

C3621—Thin blown, half frosted, open bottom Fits standard size inverted burners. 6 doz. in crate. 65 lbs. (Total $7.80) Doz. $1.20

C3622—Thin blown open bottom, 1 doz frosted allover, 2 doz half frosted, 3 doz in case 26 lbs Doz $1.20
Total $3.60)

C3623—As C3622, except all frosted, 3 doz. in case. 25 lbs Doz. $1.20
(Total $3.60)

INVERTED LIGHT BURNER

C3905—Heavy brush brass spring cash holder side screw regulator, maroon mushroom burner 4 in box
Doz $3.40

"Q" AIR HOLE GAS GLOBES

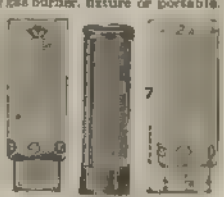
Fit standard upright burners.

C2581 Best opal fireproof, 6 in 1 doz in pkg
(Total $2.40) Doz $1.70

C2580 Light cut paneled ribbed, finished air holes opal globe 1 doz in pkg
Doz $1.56

CHIMNEYS FOR GAS LAMPS

Will fit any incandescent gas burner, fixture or portable.



C3067 C3588 C3805

C3957—"3 Feather," imported from Switzerland fine quality heat resisting glass ht 7 in bottom 2 in 3 in., 6 packed airhouse each in carton. 1 doz. in box
Doz $1.79

C3958 Mica, 7 in 8 pieces this gas burners, clean with vinegar and hot water each in carton. 1 doz in pkg
Doz. $1.50

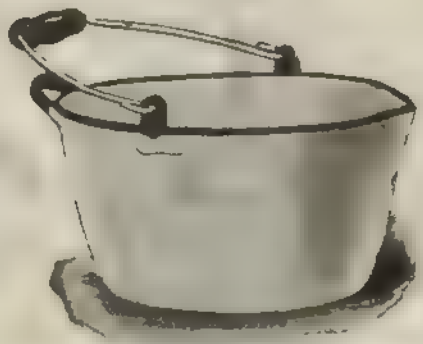
C2508 Flint, 7 in 6 pieces air holes 2 doz. in shipping carton 38 lbs. Doz. $2.10
(Total $8.30)

"WHITECOTE" ASSORTMENT

TRIPLE COATED WHITE AND WHITE ENAMELED WARE

As serviceable as it is good looking. Every item a staple seller, attractively shaped and beautifully finished in pure white enamel inside and out. Each assortment is packed at factory which insures you safe delivery. Order now at this low price.

Convex Sauce Pans



Preserve Kettles

Lipped Sauce Pans

Roll Edge Dish Pans

Convex Kettles

Water Pails

T44-4— Smooth **triple coated** white enamel inside and out, on heavy steel base, dark blue edges, seamless, wired fittings, large sizes, improved shapes, standard uniform quality, original cases packed at factory insure the perfect condition of the goods upon reaching you. Each piece wrapped and labeled.

½ doz.	4 qt.	Convex Sauce Pans	½ doz.	14 qt.	Roll Edge Dish Pans
½ "	6 "	Preserve Kettles	½ "	6 "	Convex Kettles
½ "	4 "	Lipped Sauce Pans	½ "	12 "	Seamless Water Pails

Total 3 doz. in original case, 138 lbs. **(Total $39.60)**

$13.20 DOZ.

QUICK-LITE LAMPS AND LANTERNS

COLEMAN

QUICK-LITE WITH BEAUTIFUL MELLOTONE OPAL SHADE

Same Lamp as No. CQ307 Except that it is Equipped with Shade No. 322 Instead of the White Ribbed Shade. No. 322 Shade is a Beautiful Piece of Mellotone Opal Glass It Softens the Light and has a Surprising Richness About it Very Pleasing to the Eye

One in Carton, Complete with Shade Mantles, Pump Wrench, Hanger, Cleaning Pick and Extra Generator

Each
No. CQ322 **$12.50**
Shipping weight, 10 pounds

QUICK-LITE WITH DECORATED BROWN AND TAN SHADE

Regular Lamp with Fancy Instead of Plain Ribbed Shade Equipped with No. 318 Shade which has Always been a Good Seller This Shade is Decorated in Brown and Tan Tints with Delicate Green Vine and Pink Wild Roses

One in a Carton, Complete with Shade Mantles, Pump, Wrench, Hanger, Cleaning Pick and Extra Generator

Each
No. CQ318 **$13.00**
Shipping weight 10 pounds

QUICK-LITE WITH CRYSTAL SHADE AND NICKEL BAND

Equipped with the New Style No. 317 Shade which is Fitted with an Ornamental Nickel Band Instead of the Imported Beaded Fringe now Practically Impossible to Secure

The Nickel Band Not Only Adds to the Appearance of the Shade But Reduces Breakage in Handling and Shipping.

One in Carton, Complete with Shade, Mantles, Pump, Wrench, Hanger, Cleaning Pick and Extra Generator

Each
No. CQ317B **$13.00**
Shipping weight, 10 pounds

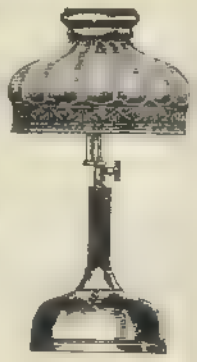
QUICK-LITE WITH SPECIAL DESIGN OPAL SHADE

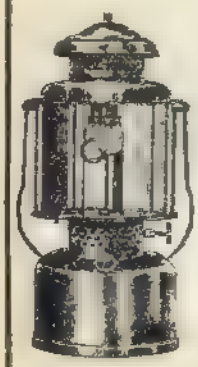
Equipped with the New Special Shade which Has Been Designed with Fewer Ribs and Large Panels to Replace the No. 307 Shade on which the Breakage in Handling and Shipping is Often Excessive

No. 329 Shade is Also Designed and Made so That the Heat Expansion is Uniform and at the Same Time it is More Ornamental and a Better Value

One in a Carton, Complete with Shade, Mantles, Pump, Wrench, Hanger, Cleaning Pick and Extra Generator

Each
No. CQ329 **$11.50**
Shipping weight, 10 pounds





QUICK-LITE LANTERN WITH MICA CHIMNEY AND REFLECTOR

Gives 300 Candle Power, Lights with a Match Through a Door in the Reflector and is the Fastest Selling Lantern on the Market.

The Quick-Lite is Wind-proof, Rain-proof and Bug-proof It is Guaranteed to Burn in Any Storm and Will Go Right on Shining in Hundreds of Places Where a Common Oil Lantern is Useless. Made of Brass, Nickel Plated and Will Last for Years

One in Carton, Complete with Chimney, Mantles, Pump, Wrench, Cleaning Pick and Extra Generator

Each
No. LQ327 **$10.50**
Shipping weight, 6 pounds.

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

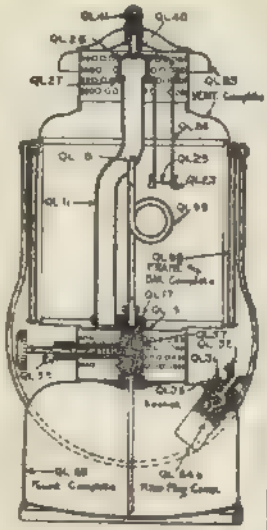
AIR-O-LITE REPAIRS AND SUPPLIES

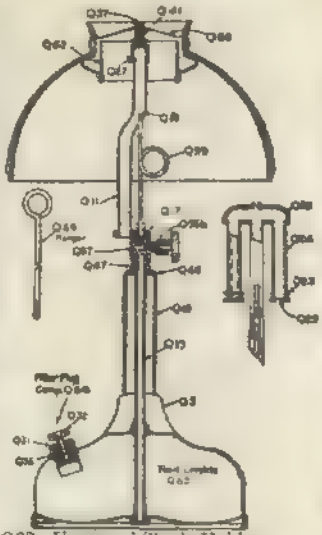
Prices on Request

Can be Sent From Factory Only MODEL Q QUICK-LITE

MODEL QL AIR-O-LANTERN

QL11	Air Intake Tube	$
QL17	Burner Support Casting	
QL18	Gas Tips, 2 for	
QL19	Burner Frame Washer	
QL23	Burner Cap Complete.	
QL24	Burner Tube	
QL25	Burner Cap Screen, 2 for	
QL26	Mixing Chamber	
QL27	Burner Support Screw	
QL32	Air Stem	
QL36	Rubber Gaskets, 2 for.	
QL40	Ventilator Rod	
QL41	Ventilator Ball Nut	
QL55	Valve Stem and Nut	
QL57	Valve Complete	
QL64b	Filler Plug Complete.	
QL65	Fount with Filler Plug.	
QL85	Ventilator	
QL88	Frame Complete.	
QL99	Generator Complete.	
QL	Wrench	





Q5	Fount Shell	$
Q11	Burner Support Tube Only	
Q13	Feed Stem	
Q17	Burner Support Casting	
Q18	Gas Tips, 2 for	
Q23	Burner Cap Complete	
Q24	Burner Tube	
Q25	Burner Cap Screen, 2 for	
Q26	Mixing Chamber	
Q27	Supporting Tube Set Screw 2 for	
Q32	Air Stem	
Q36	Rubber Gaskets, 2 for	
Q37	Clamp Screw	
Q41	Shade Holder Screw	
Q45	Handle	
Q46	Fiber Handle Cap	
Q47	Handle Lock Nut	
Q56b	Valve Stem and Nut	
Q57	Valve Complete	
Q62	Shade Clamp	
Q63	Universal Shade Holder	
Q64b	Filler Plug Complete	
Q65	Fount with Filler Plug	
Q69	Hanger	
Q70	Burner Generator, and Valve Assembled	
Q99	Generator, Complete	
Q	Wrench	

AIR-O-LITE SHADES

MANTLES

Standard for Air-O-Lite Lamps and Lanterns

	Per Dozen	
No. 41	$1 80	**$2.80**

SHADE

Opal Ribbed Shade Standard for Air-O- Lite

	Each	
No. 307	$1.00	**$2.00**

AIR-O-LITE SHADES

SHADE

Etched Shade with Nickel Band instead of Fringe Produces a Subdued Light Very Restful to Eye.

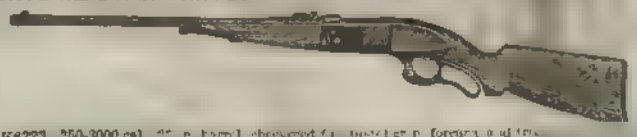
	Each	
No. 317B	$2.50	**$2.80**

Opal Shade Decorated in Brown and Tan Tints with Delicate Vine and Small Pink Roses.

	Each	
No. 318	$2 50	**$2.80**

We Especially Solicit and Pay Particular Attention to Mail Orders

STANDARD MODEL 1899 SAVAGE REPEATING RIFLES



Featherweight Take Down—Accurate and speedy, great killing force, walnut stock and fore end, checkered [illegible] barrel

[illegible] cal., 24 in. barrel
[illegible] 20
[illegible] 30-30 cal., 26 in. barrel

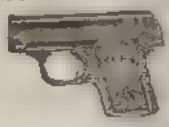
Each $45.30

1K6223 250-3000 cal. 22 in. barrel, checkered [illegible] Each $49.20

ORDERS WILL BE FILLED AT PRICES PREVAILING ON DATE RECEIVED, WHETHER LOWER OR HIGHER. THIS TAKES SAME AS CHECK

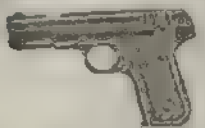
COLT AUTOMATIC PISTOLS

Blued finish safety lock and indicator, cannot discharge until handle is firmly grasped and trigger pulled



Vest Pocket Model—6 shot, 4½ in. over all, 2½ oz., takes rimless cartridge. 1 in box.

1K6075—25 cal. Each $18.00



Regular Automatic—6¼ in. over all, 22 oz., takes rimless cartridge

1K6076—[illegible] cal., 8 shot. Each, $21.80

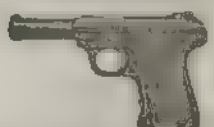
Target Model—10 shot, 8½ in. barrel, 10½ in. over all, 28 oz., bead [illegible] sights. For wholesome [illegible] loss cartridges may be used if slightly lubricated

1K6074—22 cal. ..... Temp Out

Military Model—7 shot, 8½ in. overall, 39 oz., takes rimless cartridge, [illegible] without strip, slide lock and [illegible]

1K6078—45 cal. Each $33.75

SAVAGE AUTOMATIC PISTOLS—Model 1907



Barrel steel frame, [illegible] stippled [illegible]

1K6085 [illegible] Each $20.75
1K6086 [illegible] 22.00

PYRAMID SOLVENT

1K6401—3 oz. cans put up by the [illegible] Doz $2.40

COLT REVOLVERS

The standard government, police and [illegible] arms of the world. Guaranteed against defects in workmanship. Blued finish, double action, solid frame, swing out cylinders with side catch locks, rubber [illegible]

Police Positive—Takes S. & W. short and long and Colt police positive, full and gallery loads, 6 shot, 30 oz. 1 in box.

Cal.	Barrel	
1K6054—32	4 in.	Each $27.25
1K6055—38	4 "	27.25

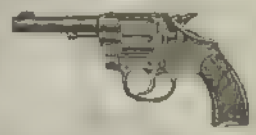
Police Positive Special—Takes S. & W. special, long, short or special Colt cartridges. 6 shot, 28 oz. 1 in box.

Cal.	Barrel	
1K6056—32	4 "	Each $28.35
1K6057—38	4 "	

Automatic Safety Hammerless—8 shot, automatic shell ejector, adjustable [illegible] rubber grip

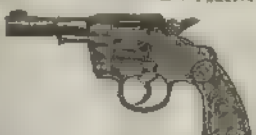
32 CAL. 3 IN. BARREL, 12 oz.

1K6011 Nickeled Each $11.75
1K6012 [illegible] 12.25



Pocket Positive—Takes S. & W. short and long and Colt police positive and gallery loads, 6 shot, [illegible]

1K6070—32 cal., 3½ in. barrel. Each, $25.10



Army Special—6 shot, takes long or short. 1 in box

1K6051—38 cal., 4 in. barrel, 32 oz. Each $30.50

1K6052—38 cal., takes long or short, 6 in. barrel [illegible] Each, $30.50

Automatic Safety Hammerless—8 shot, [illegible] rubber grip

32 CAL. 3 IN. BARREL, 10 oz.

1K6009—Blued ..... Temp Out
1K6008—Nickeled Each $11.00
1K6010—Blued 11.30

38 CAL. 3½ IN. BARREL, 10 oz.

1K6013 Nickeled Each, $11.75
1K6014 [illegible] 12.05

SMITH & WESSON REVOLVERS

Regulation Police Model—Blued [illegible] frame, [illegible] back [illegible]

Cat.	Barrel Shot	Each
1K6112—32	3½ in. 6	$27.50
1K6114—32	4 " 6	$27.50
1K6115—38	4 " 5	27.50

Regular Model—6 shot [illegible] frame, S. & W. cartridge, hard rubber, gold [illegible] Each $27.50

1905 Military Model—6 shot, solid frame swing-out cylinder, double [illegible] wood grip, 10 oz. 1½ in. barrel, S. & W. special and [illegible] Each $29.00

HUNTERS' CLOTHING

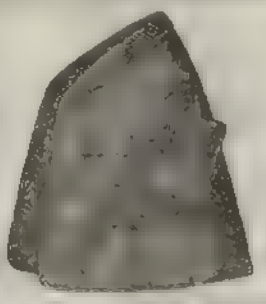
Guaranteed weight based on 29 oz. width by running yard. Unless specified all our Hunters' clothing is olive tan or dead grass color. Our prices are right, allowing you to compete with the stiffest kind of competition.

"KNOCKABOUT" HUNTERS' COATS

Dead grass color, full and roomy, corduroy collars. Sizes 36 to 46 in. chest. SPECIFY SIZES.

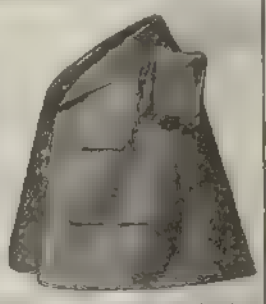
9 Oz. Canvas—9 ounce divided pockets, 2 large inside skirt pockets, and watch pocket.

1K6400—1 in box..... Each, $3.25



7 Oz. Canvas—[illegible] lined with [illegible] large belt shape pockets with flaps, 2 front entrance skirt game pockets and watch pocket.

1K6401—1 in box . Each, $3.65



8 Oz. Canvas—[illegible] lined with [illegible] canvas, canvas shoulder pad, gusset ventilators, corduroy lined adjustable cuff front and rear entrance game pockets, divided shell pockets with flaps and watch pocket.

1K6402—1 in box Each, $5.15

7 Oz. Army Duck—Army duck inside and out, padded shoulder patches, gusset ventilators under [illegible] front and rear entrance game pockets and watch pocket, [illegible] reproofed.

1K6403—1 in box . . Each $6.50

8½ Oz. Waterproofed Army Duck—8½ oz. double filled waterproof army duck, full lined with 7 oz. army duck, padded shoulder patches, [illegible] large divided shell pockets with flaps, gusset ventilators under arms [illegible] game pockets.

1K6404—1 in box . Each, $7.50

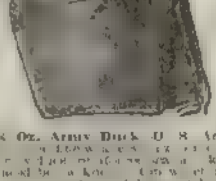
8½ Oz. Mackinaw Duck—[illegible] genuine army duck [illegible] treated to shed water, [illegible] with heavy striped [illegible] faced, large game pockets front and rear entrances, wide corduroy [illegible]

1K6405—1 in box . . . . Each, $9.25

HUNTERS' PANTS

9 Oz. Canvas—9 roomy side and hip pockets, 1 watch pocket, bellows. Sizes 36 to 44. SPECIFY SIZES.

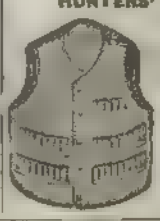
1K6414—1 pr in box Pr. $3.25



8 Oz. Army Duck—U. S. Army [illegible] reinforced with [illegible] knees, [illegible] game pockets, corduroy [illegible] cuffs, gusset [illegible]

1K6406—1 pr in box Pr. $5.50

HUNTERS' VEST



Sizes: 36 to 44 in. chest. SPECIFY SIZES.

1K6416 — 8 oz. duck, 9 shell loops, strap and buckle back. Each $1.60

"DRIBAK" HUNTER'S SUITS

Backed by "dry back or money back" guarantee.

Coat, 8½ oz., double filled army duck outside, lined with same material fully waterproofed, large divided belt shaped shell pockets with flaps, 2 front and double rear [illegible] game pockets, corduroy [illegible] adjustable cuffs, gusset [illegible]

Vest, 8½ oz. double filled army duck 44 shell loops, strap and buckle back

Pants, 8½ oz. double filled army duck, reinforced with inside patches of same material at seat and knees, [illegible] game pockets, [illegible] rear [illegible]

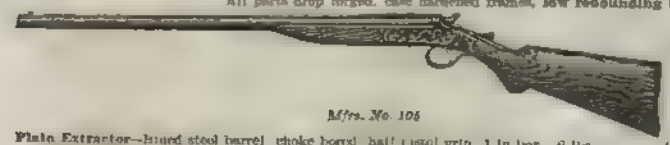
1K6423 1 suit in box Suit $16.00

SHOT GUNS AND RIFLES

All standard known goods carrying manufacturers' guarantee. Early ordering is advised for we believe factories will not be able to fulfill the demand. **Notice:** Orders will be filled at prices prevailing on date order is received whether higher or lower than here named.

STEVENS' SINGLE SHOT GUNS

All parts drop forged, case hardened frames, low rebounding hammers, varnished walnut stocks, rubber butt plates, take down.

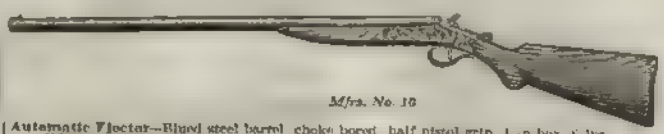


Mfrs. No. 105

Plain Extractor—Blued steel barrel, choke bored, half pistol grip, 1 in box, 6 lbs.

1K6[illegible]	[illegible] gauge	[illegible] in.	
1K6[illegible]	[illegible]	[illegible]	
1K6[illegible]	16	26	
1K6178—12	12	26	6½ lbs. A long range duck or goose gun

Each $7.00



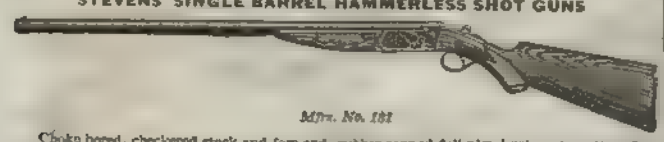
Mfrs. No. 16

Automatic Ejector—Blued steel barrel, choke bored, half pistol grip, 1 in box, 6 lbs.

1K6[illegible]	[illegible] gauge	26 in.	
1K6[illegible]	[illegible]	[illegible]	
1K6[illegible]	16	26	
1K6[illegible]	20	26	
1K6181	410	26	

To be Out

STEVENS' SINGLE BARREL HAMMERLESS SHOT GUNS



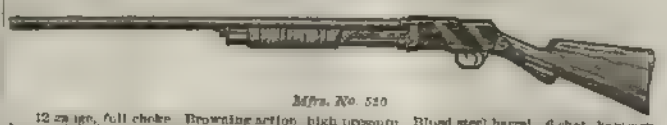
Mfrs. No. 181

Choke bored, checkered stock and fore end, rubber capped full pistol grip automatic safety ejector

1K6185—12	gauge	30 in.	
1K6186—12		28	
1K6187—410		26	

Each $18.50

STEVENS' HAMMERLESS SAFETY REPEATING SHOT GUN



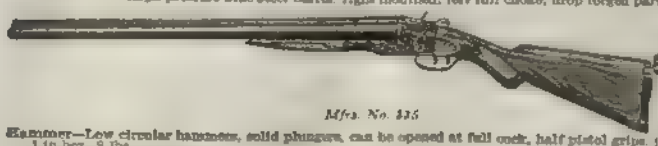
Mfrs. No. 520

12 ga. gun, full choke. Browning action, high pressure. Blued steel barrel, 6 shot, hammerless, visible locking lock, safety in rear of pin side ejector, pistol grips, walnut stock and side hand e takes down in 8 seconds, aver. 7¾ lbs. 1 in box.

1K6[illegible]—32 [illegible] Each $41.25

STEVENS' DOUBLE BARREL SHOT GUNS

High pressure blue steel barrel, right modified, left full choke, drop forged parts, case hardened frames, varnished stocks and fore-ends. 7¼ to 8¼ pounds

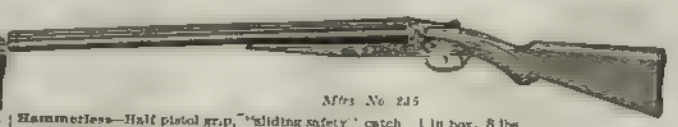


Mfrs. No. 335

Hammer—Low circular hammers, solid plunger, can be opened at full cock, half pistol grips. 1 in box, 8 lbs.

1K6[illegible]	12	gauge, 30 in.	
1K6[illegible]	12	" 32 "	
1K6[illegible]	16	" 30 "	

Each $22.50



Mfrs. No. 215

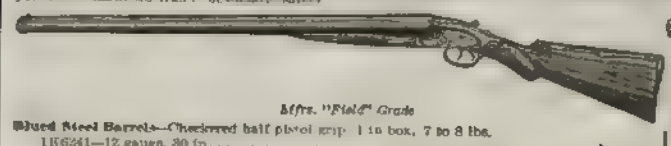
Hammerless—Half pistol grip, "sliding safety" catch. 1 in box, 8 lbs.

1K6[illegible]	12	gauge, 30 in.	
1K6[illegible]	12	" 32 "	
1K6[illegible]	16	" 30 "	

Temp. Out

ITHACA HAMMERLESS DOUBLE BARREL SHOT GUN

Double barrel, right modified, left full choke, double thick nitro breech, self-compensating action cross bolt and center fastenings, locking bolt through matted concave rib, drop forged parts, case hardened frame, automatic safety

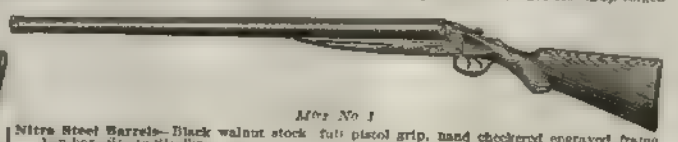


Mfrs. "Field" Grade

Blued Steel Barrels—Checkered half pistol grip. 1 in box, 7 to 8 lbs.

1K6241—12	gauge, 30 in.		
1K6242—12	" 28 "		
1K6243—16	" 28 "		

Each $38.07



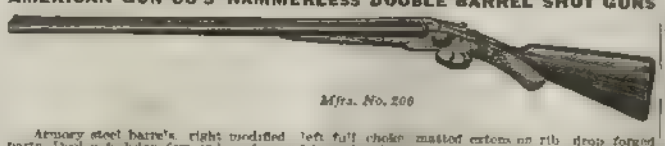
Mfrs. No. 1

Nitro Steel Barrels—Black walnut stock, full pistol grip, hand checkered engraved frame. 1 in box, 6½ to 8¼ lbs.

1K6246—1	gauge, 30 in.		
1K6[illegible]	[illegible]	28 "	
1K6[illegible]	[illegible]	28 "	

Each $46.54

AMERICAN GUN CO'S HAMMERLESS DOUBLE BARREL SHOT GUNS



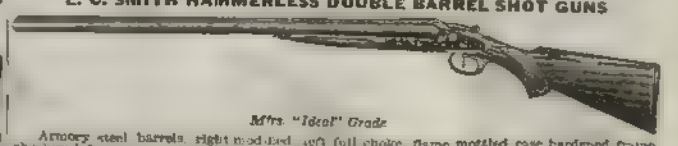
Mfrs. No. 200

Armory steel barrels, right modified, left full choke, matted extension rib, drop forged parts, Deeley & Edge fore end, sliding safety and indicators, rubber capped full pistol grip, [illegible] 1 in box, 7 to 7¾ lbs.

1K6331	12 gauge, 30 in.		
1K6333	16 "	30 "	

Each $23.00

L. C. SMITH HAMMERLESS DOUBLE BARREL SHOT GUNS



Mfrs. "Ideal" Grade

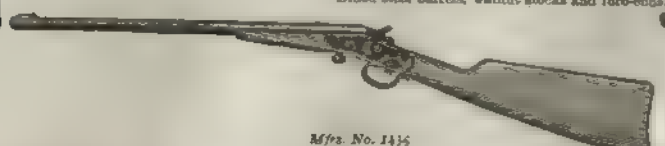
Armory steel barrels, right modified, left full choke, flame mottled case hardened frame, checkered fore-arm and stock with rubber capped full pistol grip. 1 in box, 8¼ to 8¾ lbs.

1K6356	1 gauge, 32 in.		
1K6257	"	15 "	
1K6258	16	28 "	

Each $46.20

STEVENS' 22 CALIBER TAKE DOWN RIFLES

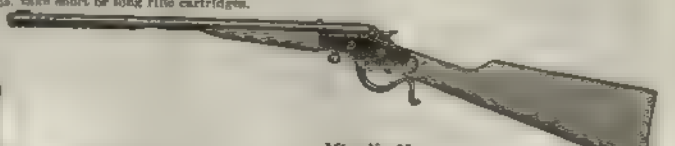
Blued steel barrels, walnut stocks and fore-ends, take short or long rifle cartridges.



Mfrs. No. 14½

"Little Scout"—Round barrel accurately rifled, knife front and open rear sights, 1 in box. 3½ lbs.

1K6180—22 cal., 18 in. Each, $6.00



Mfrs. No. 26

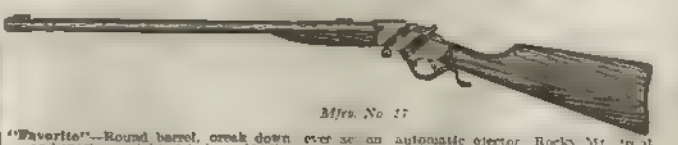
"Crack Shot"—Round barrel, break down lever action, knife front and open rear sights. 1 in box 3½ lbs.

1K6[illegible]—[illegible] cal., 18 in. Each, $7.50

Mfrs. No. 12

"Marksman"—Round barrel, break down lever action, bead front and open rear sights. 1 in box, 4 lbs.

1K[illegible] 22 cal., 20 in. Each, $9.75



Mfrs. No. 17

"Favorite"—Round barrel, break down lever action, automatic ejector, Rocky Mt. front and sport rear sight, 1 in box, 4½ lbs.

1K6167—22 cal., 24 in. Each, $9.75

STEVENS' VISIBLE LOADING REPEATING RIFLE

Mfrs. No. [illegible]

1K6170, 22 cal., 20 in., [illegible] action, [illegible] front and [illegible] block, [illegible] and 11 long rifle cartridges, round barrel, [illegible] front and sporting rear sights, [illegible] box, 4 lbs.

Each, $14.25

HAMILTON 22 CAL. RIFLES

Mfrs. No. 27

1K6325, [illegible] cal., takes 22 short or long rifle [illegible] cartridges, 15 in. blued steel barrel, [illegible] knife [illegible] and rear [illegible] sights, [illegible] lbs. [illegible]

1K6326, [illegible] [illegible] stock, [illegible] box, [illegible] lbs. [illegible]

$2.45

$2.95

COLTS REVOLVERS

Jointless, solid frame. Swing-out cylinder. Simultaneous ejection. Positive lock. Double action. Six shots.

NEW SERVICE

Blued Finish. Fitted with rubber stocks. Adapted to shoot 38-40 and 44-40 rifle cartridges, 44 Russian and 45 Colts cartridges.

Nos.	Calibre	Length of barrel, inch	Each
NS38 5½	38-40	5½	$39.00
NS38 7½	38-40	7½	39 00
NS44 5½	44-40	5½	39.00
NS44 7½	44-40	7½	39.00
NS45 5½	45 Colt	5½	39.00
NS45 7½	45 Colt	7½	39.00

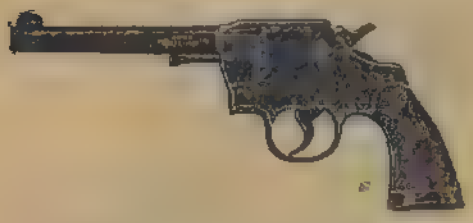
Weight each, 39 to 43 ozs, according to length

OFFICERS MODEL TARGET

Blued Finish. Fitted with checkered walnut stocks, target sights. Finely checkered trigger. Adapted to shoot 38 long Colts, 38 Colts Special and 38 S. & W. Special cartridges.

Nos.	Calibre	Length of barrel, inch	Each
OM38 6	38	6	$52 00
OM38 7½	38	7½	52.00

Weight each, 32 and 33½ ozs, according to length



ARMY SPECIAL

Blued Finish. Fitted with rubber stocks. Adapted to shoot the following cartridges: The 32 shoots 32-20 rifle cartridges; the 38 shoots 38 short and long Colts and 38 S. & W. Special The 41 shoots 41 short and long Colts.

Nos.	Calibre	Length of barrel, inch	Each
AS321	32	4	$38.00
AS325	32	5	38.00
AS326	32	6	38 00
AS384	38	4	38.00
AS385	38	5	38.00
AS386	38	6	38.00
AS414	41	4	38.00
AS415	41	5	38.00
AS416	41	6	38.00

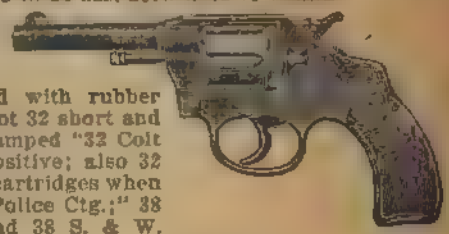
Weight each, 30 to 32 ozs, according to length

POSITIVE POLICE SPECIAL

Blued Finish. Fitted with rubber stocks. Adapted to shoot 32-20 rifle cartridges; 38 short and long Colt, 38 Colt Special and 38 S. & W. Special cartridges.

Nos.	Calibre	Length of barrel, inch	Each
PPS324	32	4	$35 50
PPS325	32	5	35 50
PPS326	32	6	35 50
PPS384	38	4	35 50
PPS385	38	5	35 50
PPS386	38	6	35 50

Weight each, 22 to 24 ozs, according to length



POLICE POSITIVE

Blued Finish. Fitted with rubber stocks. Adapted to shoot 32 short and long when barrel is stamped "32 Colt Ctg." 32 Colt Police Positive; also 32 S & W. short and long cartridges when barrel is stamped "32 Police Ctg.;" 38 Colt Police Positive and 38 S. & W. cartridges.

Nos.	Calibre	Length of barrel inch	Each
PP322½	32	2½	$34 00
PP324	32	4	34 00
PP325	32	5	34 00
PP326	32	6	34 00
PP384	38	4	34 00
PP385	38	5	34 00
PP386	38	6	34 00

Average weight each, 17 to 22 ozs, according to length

POCKET POSITIVE

Blued Finish. Fitted with rubber stocks. Adapted to shoot 32 short and long Colt when barrel is stamped "32 Colt Ctg." and 32 Colt Police Positive and 32 S. & W. short and long cartridges when barrel is stamped "32 Police Ctg."

Nos.	Calibre	Length of barrel, inch	Weight each, ozs	Each
CP322½	32	2½	16	$31 50
CP323½	32	3½	17	31.50

POLICE POSITIVE TARGET

Blued Finish. The new Police Positive target revolvers are fitted with block rear sights, adjustable for windage. Removable bead front sight.

No. PPT226W—Blued finish. Rubber stock. 6-inch barrel only. Length over all, 10½ inches. Adapted only to shoot the 22 W. R. F. model 1890 rifle cartridge when barrel is stamped "22 W.R.F." Weight each, 22 ounces.....Each $36 00

No. PPT226S—Same style as No. PPT226W. Adapted to shoot 22 short and long R. F. cartridges when barrel is stamped "Cal. 22." .....Each $36 00

No. PPT326—32 calibre. 6-inch barrel. Weight 19 ounces. Adapted to shoot 32 Colts Police Positive; also 32 S & W short and long when barrel is stamped "32 Police Ctg."..Each $36 00

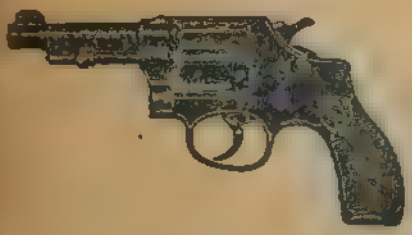
SMITH & WESSON REVOLVERS

REGULATION POLICE MODEL

A double action, solid frame, swing out cylinder revolver to meet the requirements of a light weight arm. Blued finish.

Weight about 17¾ ozs. Checkered wood stocks. The 32 cal. shoots 32 S. & W., 32 S. & W. Long and 32 Colt New Police. The 38 cal. shoots 38 S. & W., 38 S. & W. Gallery and 38 Short Colt cartridges.

Nos.	Calibre	Length barrel inch	Each
SRP323¼B	32	3¼	$32.50
SRP321¼B	32	4¼	32 50
SR1326 B	32	6	32.50
SRP384 B	38	4	32.50

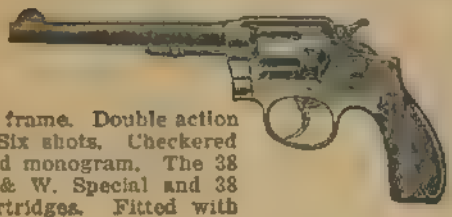


MODEL 1903 HAND EJECTOR

Blued Finish. Solid frame. Double action. Swing-out cylinder. Rebounding hammer. Six shots. Adapted for 32 S. & W. long, 32 short Colt's and 32 long Colt's center fire cartridges.

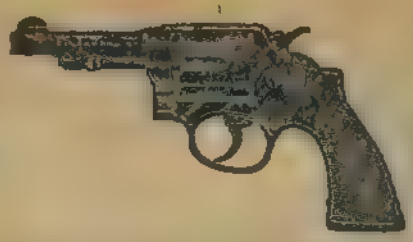
Nos.	Calibre	Length barrel inch	Weight each, ozs	Each
S03-323¼B	32	3¼	17¾	$30.50
S03-321¼B	32	4¼	18⅛	$30.50

MILITARY MODEL 1902



Blued Finish. Solid frame. Double action Swing-out cylinder. Six shots. Checkered wood stocks, with gold monogram. The 38 calibre shoots 38 S. & W. Special and 38 long D. A. Colt's cartridges. Fitted with patent safety block.

Nos.	Calibre	Length barrel, in	Weight each	Each
S02-384	38 S. & W. Special	4	1 lb 13¼ ozs	$34.00
S02-385	38 S. & W. Special	5	1 lb 13¾ ozs	34.00
S02-386	38 S. & W. Special	6	1 lb 14½ ozs	34.00



MILITARY MODEL 1905

Blued Finish. Solid frame. Double action. Swing-out cylinder. Six shots. Checkered wood, square butt stocks, with gold monogram. The 32 calibre shoots 32-20 rifle cartridges. The 38 calibre shoots 38 S. & W. Special and 38 long D. A. Colt's cartridges. Fitted with patent safety block.

Nos.	Calibre	Length barrel, in	Weight each	Each
S05-324	32 W. C. F.	4	1 lb 13¼ ozs	$34 50
S05-325	32 W. C. F.	5	1 lb 14¼ ozs	34 50
S05-326	32 W. C. F.	6	1 lb 15½ ozs	34 50
ST05-326	32 W. C. F.	6	1 lb 15½ ozs	39 50
S05-384	38 S. & W. Special	4	1 lb 13½ ozs	34.50
S05-385	38 S. & W. Special	5	1 lb 14½ ozs	34 50
S05-386	38 S. & W. Special	6	1 lb 15½ ozs	34 50
ST05-386	38 S. & W. Special	6	1 lb 15½ ozs	39.50
S08-446½	44 S. & W. Special	6½	2 lb 12 ozs	.....
ST08-446½	44 S. & W. Special	6½	2 lb 12 ozs	.....

Nos. ST05-326, ST05-386, ST05-446½, fitted with target sights.

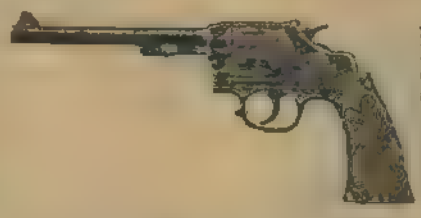
Nos. S08-446½ and ST08-446½ shoots 44 S. & W. Special and 44 Russian model cartridges.

SAFETY

Blued Finish. Automatic shell extractor. Has safety lever which makes accidental discharge impossible. Five shots, rebounding locks, safety attachment, rubber stocks. Adapted to shoot regular 32 and 38 S. & W. and 38 Colt Police Positive cartridges.

Nos.	Calibre and finish	Length barrel, in	Weight each, ozs	Each
SH323B	32 S. & W. Blued	3	14¼	$28.50
SH383¼B	38 S. & W. Blued	3¼	17	28.50
SH384B	38 S. & W. Blued	4	17¼	28.50

TARGET MODEL

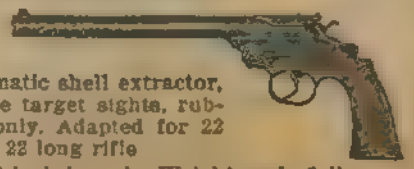


Blued Finish. Solid heavy frame target revolver. Double action, swing-out cylinder. Checkered Circassian walnut target stock, with inlaid S. & W. gold monograms. Six shots. Adapted for 22 short, long, long rifle and 22 S. & W. long cartridges.

Length of barrel, 6 inches. Length over all, 11½ inches.

No. ST22-32—22Calibre. Weight, 23 ozs.....Each $35.00

SINGLE SHOT TARGET PISTOL



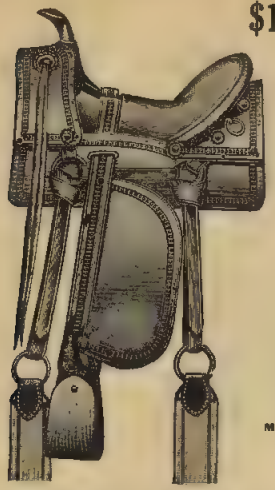
Blued Finish. With automatic shell extractor, rebounding lock, adjustable target sights, rubber target stocks. Blued only. Adapted for 22 short, 22 long S. & W. and 22 long rifle

No. ST2210—22 Calibre. 10-inch barrel. Weight each, 1 lb. 8¾ ozs .....Each $31.00

Penetration: Five and one-half ¼-inch pine boards.

SHETLAND PONY SADDLE

$11.25



All Saddles can be Shipped Immediately from Minneapolis

It is easy riding and attractive and with proper care should give good service for years. It is made from the best grade of russet skirting, handsomely finished. **Tree**—12-inch, boy's Morgan, leather covered horn. **Seat**—Full, with bound and stitched cantle. **Skirts**—6-inch. **Fenders**—6 x13-inch. **Stirrup Leathers**—1¼-inch. **Cinchas**—Linen, black bound web. **Long Latigoes**—1-inch. **Bars**—Pad covered. **Stirrups**—3-inch round top. **Horn Strings.** **Weight**—About 20 lbs.

Shipped from Minneapolis.

M1194—Shetland Pony Saddle **$11.25**

"COMMANCHE" SADDLE

$46.50

Tree—14-inch seat, steel fork, 13½-inch swell. Sampson, hide covered, seat full leather; jockeys and cantle. **Skirts**—New oxhide, hair-lined skirts, 24x21 inch. **Stirrup Leathers**—Good, heavy leather, 2-inch wide, doubled at points to lace. **Girths**—Mohair web, 4-inch wide, leather capped. **Fenders**—16x9-inch. **Latigoes**—1⅝-inch wide. **Billets**—1⅝-inch. **Stirrups**—2-inch ox bow, stamped on sides, tops and bottoms. **Horn Cap**—White rawhide with white rawhide leather buckings. **Horn String**—Doubled leather rosette, ornamental band stamped flower design all over. **Weight**—26 lbs. Shipped from Minneapolis.

H-1195—Commanche Saddle **$46.50**

BOYS SADDLE

$9.95

Tree—15½-inch, Boy Morgan, leather covered horn.

Skirts—Tacked on, felt covered bars.

Seat—Full covered, solid

Fenders—7¼x10-inch.

Stirrup Leathers—⅞-inch

Tie Straps—⅞-inch.

Girth—2-inch corded web.

Stirrups—2-inch wood, leather covered.

Horn—Covered and stitched.

Shipped from Minneapolis.

H-1196 BOYS SADDLE **$9.95**

MONTANA STOCK SADDLE

$53.50

15-INCH TREE
16x10-INCH FENDERS
27x13½-INCH SKIRTS

Tree—15-in. seat. Special steel fork, 14-in. bulge, hide covered.

Seat—Full jockeys and cantle in one solid piece.

Fenders—16x10 in.

Skirts—27x13½ inch, heavy felt lined.

Stirrup Leathers—3 in. doubled at points to lace.

Long Latigoes—1¾ in.

Billets—1¾ in.

Stirrups—2-in., heavy ox bow, leathered on sides with leather foot pieces.

Cinches Extra fine Mexican hair.
Conchas—Brass. All full waffle iron stamped
Weight About 30 lbs. Shipped from Minneapolis.
H-1197 Saddle. Price **$53.50**

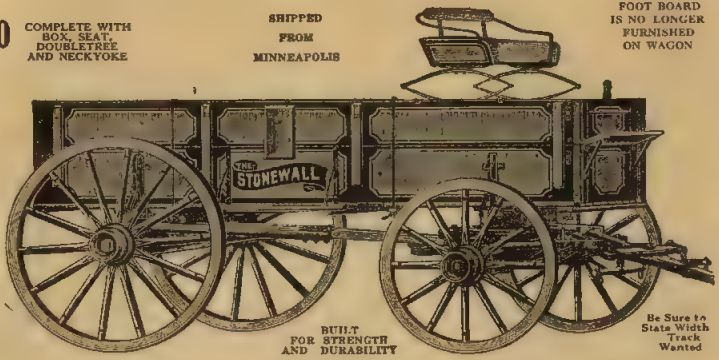
STONEWALL FARM WAGON

$109.50 COMPLETE WITH BOX, SEAT, DOUBLETREE AND NECKYOKE

SHIPPED FROM MINNEAPOLIS

FOOT BOARD IS NO LONGER FURNISHED ON WAGON

EVERY WAGON GUARANTEED BY THE MANUFACTURER AND BY THE HOLMES CO-OPERATIVE CO.



BUILT FOR STRENGTH AND DURABILITY

Be Sure to State Width Track Wanted

Our Stonewall Farm Wagons are constructed of the best of materials by one of the oldest and largest wagon factories in the country, who have a reputation for building wagons of quality that give lasting satisfaction. All timbers entering into the construction of Stonewall Wagons are rigidly inspected at time of purchase, thoroughly seasoned and again inspected before being used. Their superior construction guarantees durability and light draft. These wagons are unsurpassed for quality, durability and light running. Guaranteed to give complete satisfaction under any and all conditions.

AXLES—The axles are constructed from clear, straight-grained No. 1 Rock maple, and guaranteed to carry full capacity of wagon, which is 4000 pounds. The skeins, 3½x10 inches, are set with the proper "gather" to conform to the wheel dish, by automatic machinery

WHEELS—Height 40 and 48 inches. Tires are 3 inches wide by ⅛ inc thick, or 2 inches wide by ⅝ inches thick. The wheels are the life of a wagon, and no expense has been spared to make them the best and longest lived possible. They have just the right amount of dish to stand the greatest strain. The felloes are of especially selected seasoned hardwood. The hubs are made from choicest birch, hub bands are heated and wedged on. Boxings are set in hubs automatically by hydraulic pressure. The spokes are of straight-grain white oak. Tires are extra heavy and set by the latest improved process.

BOX—is made of carefully selected and seasoned materials. Floor is of Washington fir, tongued and grooved. The bottoms are reinforced to prevent the bolsters from wearing the bottom and are supported by six heavy hardwood cleats riveted on sides and end gates; are heavily ironed on top edges. Comstock patent end gates are furnished on all our beds. With each wagon we furnish a 28 inch box, 14 inch lower box and 13 inch top box. Boxes are furnished with steel grain cleats, hold-down rods, anti-spreader chains, and cut under rub irons. Width of box on narrow track wagon is 38 inches; on wide track wagon, 42 inches.

GEAR PARTS—All wood which is used in the gear parts, such as the reach, bolster, bounds and tongue, are made from the best oak and Rock Maple. The doubletrees, singletrees and neckyoke are of tough, clear hickory. The essential point of construction is to combine the greatest strength with the lightest draft possible. Our many customers, who are using the Stonewall Wagons, say that we have the best balanced, easiest running wagon on the market, and we know it is true, for by application of scientific principles we have produced the proper combination of strength and draft. Both front and rear gears are heavily ironed where unusual wear and strain comes.

TONGUE—Tongue is made of the best No. 1 oak, size 4 inches by 2½ inches by 12 feet.

PAINTING—The painting is all hand and brush work. Only the best grade of leads, oils and varnishes are used. All parts are sanded before painting; the gears are painted with pure red lead ground in linseed oil, neatly striped. The bed is dark green, three coats, and striped in panels, as illustration shows.

TRACK—Is the distance on the ground from center to center of tires. Narrow track (4 feet 6 inches) is regular, wide track (5 feet) is generally used south of Rocky Mountain States. When ordering, be sure and specify what track is desired. **Shipped from Minneapolis.**

B-2404—Farm Wagon with 40x48 inch wheels; 2x⅝ inch tires; 3½ by 10 inch cast skeins; 38 inch wagon bed and tongue complete with doubletrees, neckyoke and seat. Price..... $105.50

B-2405—Farm Wagon; wheels 40x48 inches; 3x½ inch tires; 3½x10 inch cast skeins; 38 inch wagon bed and tongue, complete with doubletrees, neckyoke and seat. Weight about 1100 pounds. Price..... 109.50

B-2407—Gear only, 40x48 inch wheels; 3x½ inch tires, or 2x⅝ inch cast skeins, without doubletrees, neckyoke or seat. Price..... $69.50

Extra for Wide Track..... 3.80

Extra for doubletrees, singletrees and neckyoke..... 4.15

Extra for spring seat..... 5.62

Extra for rear brake..... 9.25

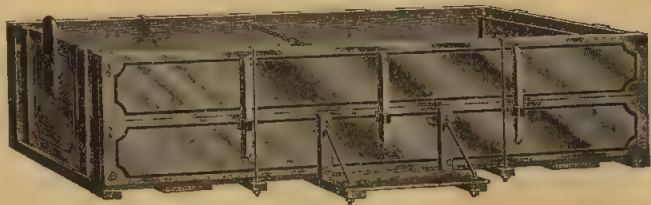
Extra for 10 inch Tip Top Box..... 9.10

STONEWALL FARM WAGON BOX

The Stonewall Farm Wagon Box is substantially constructed of carefully selected, well seasoned materials; floor is of selected Washington fir, tongued and grooved. Bottom has six cross pieces bevel reinforcements at both bolsters; bevel edge iron on top of sides and ends; box straps, ⅜ inch; side braces, reinforced side blocks, ⅝ inch; 4 down rods, 2 on each side; end rods, ½ inch. Painted two coats green, striped black and yellow and varnished. All outside cleats securely nailed and riveted at each end. Weight, about 350 pounds. Shipped from Minneapolis or Kansas City.

B-2408—Wagon Box, length 10½ ft.; height, 26 in., with Comstock end gate side box fasteners anti-spreaders chain and grain irons for bolster 38 in. between stakes..... $32.50

Extra for 10 in. Tip Top box, add..... 9.00



SHIPPED FROM KANSAS CITY OR MINNEAPOLIS

SAVINGS BANKS

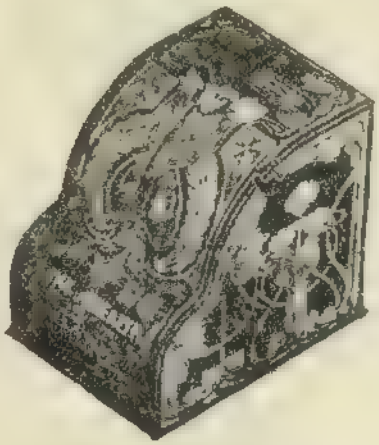
Dime. Barrel Style Full Nickel Plated Holds $5.00 in Dimes. Size, 2½ x ¾ Ins

Per Dozen

No. 500 . . . . . **$2.50**

One dozen in a box.

COMMONWEALTH



Three Coin Register and Adding

Adds and Registers Quarters, Dimes and Nickels Through the Same Slot to $10.00, and then Opens Automatically One Lever. Size, About 5½ x 5 x 4 Ins

Per Dozen

No. 550 . . . . . **$30.00**

One in a box.

THREE COIN REGISTER AND ADDING

Adds and Registers Quarters, Dimes and Nickels Through the Same Slot to $10.00 and then Opens Automatically One Lever Size, About 6 x 5 x 4 Ins.

Per Dozen

No. 450 . . . . . **$31.00**

One in a box.

No. 950

PROVIDENT

Four Coin Register and Adding

Adds and Registers Quarters Dimes, Nickels and Pennies Through the Same Slot to $10.00 and then Opens Automatically One Lever Size, About 5 x 4 x 4½ Ins

Per Dozen

No. 950 . . . . . **$36.00**

One in a box.

PLAY STORE REGISTER

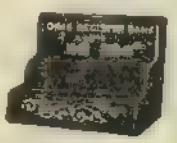
Cold Rolled Steel, Beautifully Ornamented. Height, 4 Ins. Width, 4 Ins. Length, 3½ Ins Keys Marked $1.00, 35c., 25c., 20c., 10c., 5c., Corresponding with Figures on the Dial

Per Dozen

No. 300—Wt. ¾ Lb **$18.00**

REGISTER

Made of Cold Rolled Steel Size, 4½ x 4 x 5½ Ins Wt., About 1 Lb.



For Pennies.	Holds $1.00. Per Dozen	For Dimes.	Holds $10.00. Per Dozen
No. 200	**$16.50**	**No. 225**—	**$16.50**

One in a box.

UNCLE SAM

Heavy Cold Rolled Steel, Beautifully Ornamented No Key Used Locks and Unlocks Automatically at Side of Bank Before Depositing First Coin Size 4½ x 3½ x 4½ Ins

For Nickel. Holds $10.00.

Per Dozen

No. 325 . . . . . **$25.00**

For Dime. Holds $20.00.

Per Dozen

No. 350 . . . . . **$25.00**

For Quarter. Holds $20.00.

Per Dozen

No. 375 . . . . . **$25.00**

One in a box. Weight, about 1½ lb

One of the Best Sellers

The unique silhouette breathes originality, exclusive design and the smooth finish emanates elegance and adds that final touch of distinction so seldom achieved in a Phonograph.

The tone and appearance of this instrument endear it to the purchaser, so that it becomes a necessity to the household.

Each Phonograph is built by the master artisan and creators of this instrument in our factory.

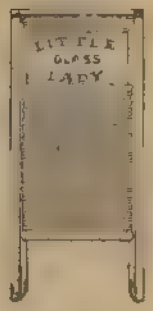
Manufactured by
World Phonograph Company
Chicago, U. S. A.

WOODEN WARE

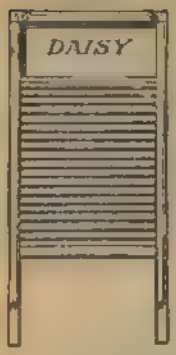
WASHBOARDS

Wide protector heads. Spruce legs. White wood backs.

LITTLE LADY GLASS

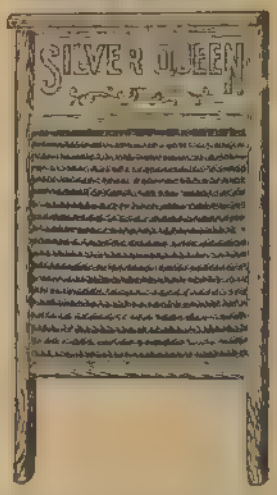


DAISY



MISSION

SILVER QUEEN



CROWN GLASS

Name	Rubbing surface	Size, inch	Ship wt doz, lbs	Crimp	Per dozen
Little Lady	Single Glass	6 x 8	20	Plain	$6 00
Daisy	Single Zinc	6 x 8	13	Globe	4 80
Mission	Single Zinc	8½x 9½	19	Globe	6 00
Silver Queen	Single Composition	11 x12	28	Cable	9 00
Crown Glass	Single Glass	11 x12	50	Plain	12 00

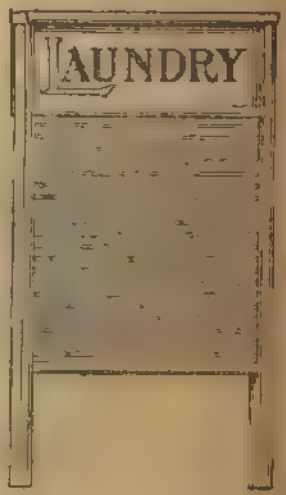
BLUE ENAMEL PACIFIC

CROWN BRASS

Front View

Rear View

LAUNDRY

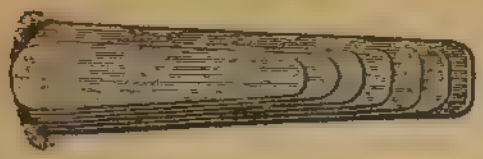


Name	Rubbing surface	Size, inch	Ship wt doz, lbs	Crimp	Per dozen
Pacific	Single Blue Enamel	11x13	34	Globe	$13 80
Crown Brass	Single Brass	11x12	28	Spiral	12 00
Laundry	Single Zinc	12x14	43	V Crimp	15 00

All above, one-half dozen in a bundle.

WOODEN WARE

IRONING BOARDS



Selected kiln dried spruce. Sand papered. Smooth, round edges

Nos.	4	4½	5	5½	6
Length, feet	4	4½	5	5½	6
Width small end, inch	6	7	9	9	10
Width large end, inch	10	11	14	13	15
Net weight per dozen, lbs.	75	85	104	126	140
Shipping weight crate, lbs.	40	45	55	66	73
Per dozen	$15 00	18.00	21.00	25.20	30.00

RID JID

Bottom view, folded

Springer patent, folds flat within width of board. Metal plates prevent bolts wearing holes in wood. Strongly trussed and wide spread to rear legs. Sets square and solid, though the floor be uneven.

Nos.	RJ 4	RJ 2	RJ2S
Size board, inch	50x11	54x13	54x13
Size sleeve board, inch	.....	.....	24x5
Shipping weight per dozen, lbs.	150	165	185
Per dozen	$40.00	60 00	66.00

EXTRA SLEEVE BOARDS FOR RID-JID

Size, inch	24x5
Shipping weight, dozen, lbs	20
Per dozen	$6.00

STANWELL

Spruce. Three legs. Folds flat.

No.	Stanwell 2
Size board, inch	11x48
Dozen in crate	¼
Net weight per dozen, lbs.	145
Shipping weight per dozen, lbs.	150
Per dozen	$36.00

SLEEVE BOARDS

Fastened to ironing board or table by bolt and wing nut. Hinged at large end to raise to perpendicular position.

No.	Star
Length, inch	24
Width, inch	4¾
Dozen in bundle	1
Net weight per dozen, lbs.	21
Shipping weight per bundle, lbs.	23
Per dozen	$12.00

Best kiln dried spruce.

No.	1
Size, inch	31x6
Dozen in crate	½
Net weight per dozen, lbs.	54
Shipping weight per crate, lbs.	30
Per dozen	$12.00

CLOTHES DRIERS

HILLS CHAMPION

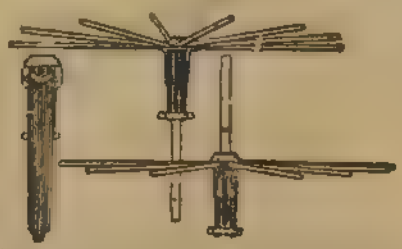
YARD

Castings of best malleable iron, galvanized. Self-fastening and locks to post when in use and being separate, can be easily removed when not in use. The lawn drier post sets in a socket in the ground and can also be removed. Fitted with either a wood post or galvanized steel tubing post.

Pointed Wood Posts

Nos.	H 1	H 2	H 3
Arms	4	5	5
Length of arms, feet	6	6	7
Line, feet	100	115	150
Shipping weight per dozen, lbs.	408	408	444
Each	$16.50	18.00	20.50

WALL



Can be folded up against the wall when not in use, and when used can be raised and lowered at will. Made of selected maple, with 8 arms and 28 inches in length. Strong and durable.

BEAUTY

Arms sand papered and oiled. ⅛ inch thick.

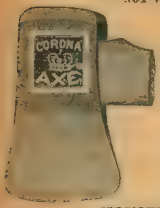
Dozen in crate	2
Net weight per dozen, lbs.	69
Shipping weight per crate, lbs.	178
Per dozen	$30.00

Two dozen in a crate.

SINGLE BIT AXES

CORONA

NOT WARRANTED



Made to meet the demand for a satisfactory low priced axe for general household purposes. The bits are tempered to withstand severe usage.

Michigan Pattern

Gold Bronzed Body. Polished Head and Bit. Labeled.

HANDLED

Handled with Rodgers oval handles.

Assorted 3 to 4, 3½ to 4½ and 4 to 5 pounds.

No. 805.....Per dozen $35 00

HOUSEHOLD AXES

CUB

FULLY WARRANTED

Hand forged from the highest grade crucible steel. Tempered bits and polis.

Michigan Pattern. Natural Black Finish. Labeled.

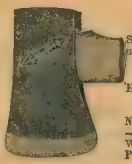
HANDLED

No.	H 703
Sterling handle, inch	18
Weight each, without handles, lbs	2¼
Per dozen	$25.00

FREIGHTERS AXES

STERLING

FULLY WARRANTED



Made from highest grade crucible steel. Same high grade construction as in regular pattern ~~Sterling~~ axes.

California-Ohio Pattern

Rustless. Black Finish. Deep Gold Etching.

HANDLED

No.	F 100
~~Sterling~~ handle, inch	32
Weight each, without handle, lbs	2¾
Per dozen	$27.00

STERLING

FULLY WARRANTED

Special crucible forged steel bits.

California-Ohio Pattern. Labeled

Red Body. Hollow Blued Bevels. Polished Bit.

HANDLED

No.	F 703
Rodgers handle, inch	32
Weight each, without handle, lbs	2¾
Per dozen	$24 50

BOYS AXES

STERLING

FULLY WARRANTED

Made from highest grade crucible steel. Same high grade construction as in regular pattern ~~Sterling~~ axes.

California-Ohio Pattern

Rustless. Black Finish. Deep Gold Etching.

HANDLED

No.	91
~~Sterling~~ handle, inch	28
Weight each, without handle, lbs	2¼
Per dozen	$30.00

CUB

FULLY WARRANTED

Made from high grade steel along same lines of construction as the regular pattern Cub axes.

Michigan Pattern

Natural Black Finish. Labeled.

HANDLED

No.	93
Sterling handles, inch	28
Weight each, without handle, lbs	2¼
Per dozen	$22.00

STERLING

FULLY WARRANTED

Forged steel, tempered bits.

California-Ohio Pattern. Labeled.

Red Body. Hollow Blued Bevels. Polished Bit.

HANDLED

No.	94
Rodgers handle, inch	28
Weight each, without handle, lbs	2¼
Per dozen	$22.00

CORONA

NOT WARRANTED

Made to meet the demand for a satisfactory low priced boys axe. Tempered bits.

Michigan Pattern

Gold Bronzed Body. Polished Head and Bit. Labeled

HANDLED

No.	95
Rodgers handles, inch	28
Weight each, without handle, lbs	2¼
Per dozen	$25.00

All above, about 48 lbs per dozen.
One-half dozen in a case

SINGLE BIT AXES

HUNTS

FULLY WARRANTED

Bits made of highest grade crucible steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel body and hardened polls

CUB

FULLY WARRANTED

Hand forged from highest grade crucible steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel body, hardened poll.

FULLY WARRANTED

Hand hammered, hand tempered and hand whetted. Bits made of highest grade crucible forged steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel bodies with hardened polls. Perfect eyes to insure correct hang.

California Ohio Pattern

Rustless Black Finish. Deep Gold Etching

UNHANDLED

No.	Weight, lbs	Base weights Per doz
100	3, 3½, 4, 4½, 5	$38 00

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
100A	~~Stiletto~~	Oval	$48 50
100B	~~Stiletto~~	Octagon	48 50
100C	Hand Made	Oval	48.50
100D	Pacific	Oval	48.00
100E	Pacific	Octagon	48.00

Michigan Pattern

Rustless Black Finish. Deep Gold Etching

UNHANDLED

No.	Weights, lbs	Base weights Per doz
103	3, 3½, 4, 4½, 5	$38 00

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
103A	~~Stiletto~~	Oval	$48 50
103B	~~Stiletto~~	Octagon	48 50
103C	Hand Made	Oval	48.50
103D	Pacific	Oval	48.00
103E	Pacific	Octagon	48.00

Michigan Pattern

Gold Bronzed Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weights, lbs	Base weights Per doz
203	3, 3½, 4, 4½, 5	$35 50

HANDLED

Nos	Brand	Shape	Base weights Per doz
203A	~~Stiletto~~	Oval	$46 00
203B	~~Stiletto~~	Octagon	46 00
203C	Hand Made	Oval	45.75
203D	Pacific	Oval	45.75
203E	Pacific	Octagon	45.75

Michigan Pattern

Black Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weight, lbs	Base weights Per doz
900	3, 3½, 4, 4½, 5	$35 50

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
900D	Pacific	Oval	$45 00
900S	Sterling	Oval	42.00

HUNTS

California-Ohio Pattern

Black Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weight, lbs	Base weights Per doz
903	3, 3½, 4, 4½, 5	$37 00

6, 7, and assortments

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
903D	Pacific	Oval	$46 50
903S	Sterling	Oval	43.50

CUB

Michigan Pattern

Natural Black Finish. Labeled

UNHANDLED

No.	Weight, lbs	Base weights Per doz
653	3, 3½, 4, 4½, 5	35 50

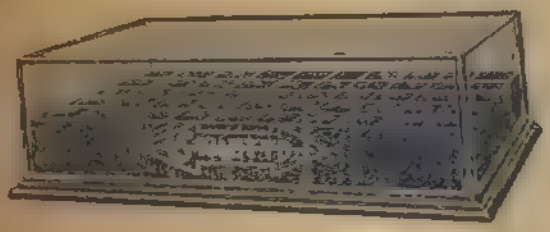
And assortments

HANDLED

No.	Brand Handle	Shape Handle	Base weights Per doz
653S	Sterling	Oval	$42.00

For weight of handled axes add 16 lbs per dozen. For other handle construction, add price of handles to price of unhandled axes, plus 75c per dozen for handling. For handles only see page 221.

CUTLERY SHOW CASES



POCKET KNIFE

Oak finish. Entire platform covered with plush. Doors fitted with American mirrors.

Sliding drawers are partitioned so that stock of each knife may be placed directly below each sample.

No. 50—Width, 25 inches. Length, 39 inches. Height, 13 inches. Partitioned for knives, 50 patterns. Shipping weight, 90 lbs.

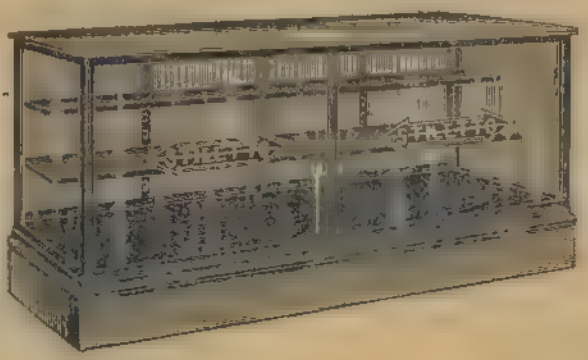
Each $35 00

FLOOR DISPLAY

Natural oak finish highly polished. One piece, ⅜-inch plate glass top. One piece selected double strength glass front, one piece glass ends, clear glass sliding doors on ball bearings. Case contains two quarter sawed oak finish shelves, supported on the latest improved nickel plated keyhole adjustable brackets.

No. 250—Length, 6 feet. Height, 42 inches. Width, 26 inches. Shipping weight, 285 lbs.

Each $150 00



CUTLERY DISPLAY BOXES

Knife, razor and shear boxes are all made uniform height which enables a show case to be dressed neatly. These boxes are particularly neat for displaying cutlery in floor show cases.

Knife Display Box—Made of heavy cardboard; covered with black leatherette paper. Removable cover with green plush covering. The stock number, cost and selling price are kept on underside of cover. Box will hold the stock of knives. Length, 1⅞ inches, height, 2⅝ inches; width, 2⅝ inches

Each $0.30

Razor and Scissor Display Box—Made similar to knife box. Height, 2⅝ inches. Width, 2⅝ inches. Length, 7½ inches. Sample is placed on top of box; stock carried inside. Box holds ½ dozen razors in their individual boxes or one-half dozen scissors and shears up to 6½ inches.

Each $0 50

Shear Display Box—Height, 2⅝ inches. Width, 2⅞ inches. Length, 9½ inches. Box will hold one-half dozen shears of any length up to 9 inches.

Each $0.50

Illustrating Knife Display Box

Average weight, 4 ounces each

CUTLERY MARKING INK

Cutlery Ink. For marking prices or numbers on knives, razors, shears, etc., or any polished or nickeled steel. Can be entirely removed with alcohol. Put up in 2-ounce bottles.

Per dozen $6.30

HATCHETS

C. HAMMOND AND SON

Prices on Request

Forged from Best Refined Solid Crucible Steel Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit Standard Sizes and Dimensions Each Hatchet Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

FULL POLISHED, MIRROR FINISH, SCORED HEAD

Extra Quality, Selected White Hickory Handles.

LATHING. ADZE EYE, BELL POLL

Per Dozen

No. 75—2¼ Inch Cut Weight 1 Lb. . . $
Half dozen in a cardboard box.

LATHING NEW ENGLAND PATTERN

Per Dozen

No. 95—2¼ Inch Cut Weight, 14 Ozs
Weights do not include handles.

FULL POLISHED, MIRROR FINISH

Extra Quality, Selected White Hickory Handles.

LATHING. CHICAGO PATTERN

Milled Head, 9 Rows, 81 Points.

Per Dozen

No. 97 -2¼ Inch Cut Weight, 1 Lb. . . . . $
Half dozen in a cardboard box.

LATHING. ST. LOUIS PATTERN

Milled Head, 10 Rows, 100 Points.

Per Dozen

No. 98—2¼ Inch Cut Weight 1 Lb 1 Oz $
Weights do not include handles.

FULL POLISHED, MIRROR FINISH, SCORED HEAD

Extra Quality, Selected White Hickory Handles.

LATHING. ADZE EYE. PHILADELPHIA PATTERN

Per Dozen

No. 80—2¼ Inch Cut Weight, 14 Ozs. $
Half dozen in a cardboard box.

LATHING. ADZE EYE. NEW YORK PATTERN

Per Dozen

No. 85—2¼ Inch Cut Weight, 14 Ozs . $
Weights do not include handles

HATCHETS

C. HAMMOND AND SON

Prices on Request

COPPER BRONZED FINISH

Scored Head, Rolled Bevel

Extra Quality, Selected White Hickory Handles.

Made of Best Refined Solid Crucible Cast Steel Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit Standard Sizes and Dimensions. Nail Slots for Pulling Nails in Any Position Each Hatchet Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

PRODUCE

Per Dozen

No. 106—2¼ Inch Cut. Weight 12 Ozs. $

NEW YORK PATTERN BARREL

Per Dozen

No. 108—2¼ Inch Cut Weight, 1 Lb 2 Ozs . $

Half dozen in a cardboard box. Weights do not include handles

BARREL

FULL POLISHED, MIRROR FINISH

Scored Head, Rolled Bevel

Extra Quality, Selected White Hickory Handles

Forged with Soft Steel Body. Best Tool Steel Welded on **Head** and **Inserted** for Cutting Edge, which is Superior to an Overlaid Bit. Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions The Best and Toughest Hatchet that can be Produced and Give the Longest Wear to the User Each Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

Per Dozen

No. 100—2¼ Inch Cut. Weight, 1 Lb 2 Ozs... $

Half dozen in a cardboard box.

FLOORING

GOLD BRONZED FINISH

Polished Face and Bit. Single Bevel

Extra Quality, Selected White Hickory Handles

A Forged Hatchet with Swedish Iron Body Best Tool Steel Welded on Head and **Inserted** Cutting Edge, which is Superior to an Overlaid Bit Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions The Best and Toughest Hatchet that can be Produced and Give the Longest Wear to the User Each Hatchet Head and Handle bears an Attractive Black and White Shield Labe. Fully Describing Quality of Tool

Per Dozen

No. 118—4 Inch Cut. Weight, 1 Lb. 10 Ozs .. $

Weights do not include handles.

NAIL HAMMERS

Prices on Request

C. HAMMOND AND SON

Forged from Best Refined Crucible Steel. Face and Claw Carefully Hand Tempered to the Proper Degree of Hardness to Stand the Use for which the Tool is Intended. Claw has Patent Grip to Pull a Headless Nail from Any Position. Eye of Hammer Head and Handle made to a Gauge to Insure a Perfect Fit. Standard Sizes and Dimensions. Each Hammer Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

FULL POLISHED, MIRROR FINISH

Second Growth, Straight Grained, Thoroughly Seasoned, Extra White Hickory Handles.

ADZE EYE. PLAIN NECK AND POLL

Per Dozen

No. 170B—Size 3/0. Weight, 3 Ozs.
No. 170A—Size 2/0. Weight, 5 Ozs.
No. 170—Size 0. Weight, 7 Ozs.
No. 170½—Size 0½. Weight, 9 Ozs.
No. 171—Size 1. Weight, 13 Ozs.
No. 172—Size 2. Weight, 1 Lb.
No. 173—Size 3. Weight, 1 Lb. 4 Ozs.

ADZE EYE. OCTAGON NECK AND POLL

Per Dozen

No. 0170B—Size 3/0. Weight, 3 Ozs.
No. 0170A—Size 2/0. Weight, 5 Ozs.
No. 0170—Size 0. Weight, 7 Ozs.
No. 0170½—Size 0½. Weight, 9 Ozs.
No. 0171—Size 1. Weight, 13 Ozs.
No. 0172—Size 2. Weight, 1 Lb.

Half dozen in a cardboard box. Weights do not include handles.

NICKEL PLATED OVER COPPER PLATE WHICH, MAKES A HIGHER FINISH AND RUST PROOF

Extra Fine Ebonized Hickory Handles.

ADZE EYE. OCTAGON NECK AND POLL

Per Dozen

No. ON170B Size 3/0. Weight, 3 Ozs.
No. ON170A—Size 2/0. Weight, 5 Ozs.
No. ON170—Size 0. Weight, 7 Ozs.

Per Dozen

No. ON170½—Size 0½. Weight, 9 Ozs.
No. ON171 Size 1. Weight, 13 Ozs.
No. ON172—Size 2. Weight, 1 Lb.

MECHANIC'S PRIDE

NICKEL PLATED OVER COPPER PLATE, WHICH MAKES A HIGHER FINISH AND RUST PROOF

Extra Fine Ebonized Hickory Handles.

ADZE EYE, OCTAGON NECK, ROUND POLL

Per Dozen

No. 175—Size 2. Weight 1 Lb.

Half dozen in a cardboard box. Weights do not include handles.

NAIL HAMMERS

C. HAMMOND AND SON

Forged from Best Refined Crucible Steel Face and Claw Carefully Hand Tempered to the Proper Degree of Hardness to Stand the Use for which the Tool is Intended Claw has Patent Grip to Pull a Headless Nail from Any Position. Eye of Hammer Head and Hand e made to a Gauge to Insure a Perfect Fit. Standard Sizes and Dimensions. Each Hammer Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool.

Prices on Request

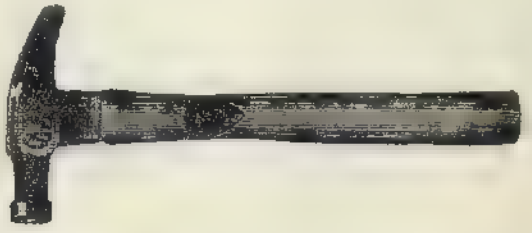
FULL POLISHED, MIRROR FINISH

Second Growth, Straight Grained, Thoroughly Seasoned, Extra White Hickory Handles

ADZE EYE, BELL FACE

	Per Dozen
No. 180B—Size 3/0. Weight, 3 Ozs.	
No. 180A Size 2/0. Weight 5 Ozs.	
No. 180—Size 0. Weight, 7 Ozs.	
No. 180½—Size 0½. Weight, 9 Ozs.	
No. 181—Size 1. Weight, 13 Ozs.	
No. 182—Size 2. Weight, 1 Lb	
No. 183—Size 3. Weight, 1 Lb 4 Ozs.	

Half dozen in a cardboard box. Weights do not include handles.



FULL POLISHED, MIRROR FINISH

Second Growth, Straight Grained, Thoroughly Seasoned, Extra White Hickory Handles.

ADZE EYE, STRAIGHT CLAW

	Per Dozen
No. 185—Size 0 Weight, 7 Ozs.	
No. 186 Size 1 Weight, 13 Ozs.	
No. 187—Size 2. Weight, 1 Lb.	
No. 188—Size 3. Weight, 1 Lb 4 Ozs.	

ADZE EYE, BELL FACE, STRAIGHT CLAW

	Per Dozen
No. 196—Size 0 Weight, 7 Ozs.	
No. 196—Size 1. Weight, 13 Ozs.	
No. 197—Size 2. Weight, 1 Lb.	
No. 198 Size 3 Weight, 1 Lb 4 Ozs.	

EAGLE TOOL COMPANY'S

Bell Face

ADZE EYE

Polished Except Under Claw and Poll

Plain Face

	Per Dozen
No. 77—Weight, 1 Lb.	
No. 78—Weight, 1 Lb.	

Half dozen in a box.

The "Pennsylvania" line is the Greatest Lawn Mower Value on the Market Today. The Distinctive Mower with the Distinctive Features

EXTRA QUALITY DRESSED DOLLS

A complete line of exceptionally well dressed dolls to retail from $5.00 each up to $30.00. We feel assured after a careful survey of the market that ours is the best showing of dressed dolls you will find anywhere. With few exceptions all numbers shown are with sleeping eyes. There is a large demand for better dressed dolls and you will miss a good opportunity for profit if you do not have a liberal display of these in your doll department. All have composition heads, modeled hands, painted features, mohair or human hair wigs, well stuffed bodies, concealed hip and shoulder joints. Each in box.

F7321 [illegible] curly mohair wig [illegible] ribbon bow [illegible] white socks and slippers. Each $2.90

F7322—17½ in., mohair wig, sleeping eyes [illegible] white stockings and slippers. Each $3.50

F7333—22 in., very large composition breast plate head, mohair wig, ringlet [illegible] Each $2.95

F7326 [illegible] curly mohair wig [illegible] part ribbon bow, moving eyes [illegible] Each $4.50

F7139 [illegible] mohair wig [illegible] checked gingham baby dress, square sea neck, [illegible] Out

F7338 [illegible] curly mohair wig [illegible] part ribbon bow, moving eyes, flowered waist dress, solid color yoke and bols, braid edged white dimity revers, lace [illegible] Each $5.00

F7340 [illegible] mohair wig, [illegible] moving eyes [illegible] and slippers, lace trim underwear Each $6.75

F7340 20 in., breast plate head, long curly human hair wig, ribbon bow flower- [illegible] about waist, [illegible] ruffle at right, wig [illegible] ribbon sash bows, underwear, [illegible] slippers Each $7.00

F7341—[illegible] curly mohair wig, stitched side parts, ribbon bow, moving eyes, [illegible] white socks and slippers, gold bead necklace, [illegible] Each $7.00

F7635, 25 in., very [illegible] head, moving eyes, open mouth, exposed teeth, sewed [illegible] human hair wig, [illegible] sleeves, lace ruffle bottom, ribbon sash and rosette, lace trim underwear, white socks and slippers. Each, $12.00

F7634 [illegible] breast plate head, moving eyes, [illegible] human hair wig, ribbon [illegible] sleeves, tucked full skirt, lace trim underwear, white socks and slippers. Each, $13.50

F7344 [illegible] in., breast plate head, moving eyes, open mouth, exposed teeth, stitched [illegible] curly human hair [illegible] collar and bottom of skirt [illegible] shoes, white socks [illegible] Each

F7635, 20in., breast plate head, moving eyes, [illegible] [illegible] human hair wig [illegible] white socks and slippers, lace trim underwear [illegible] Each

FINELY DRESSED FULL JOINTED COMPOSITION DOLLS

STAR VALUE

Full jointed composition body, shoulder, elbow, wrist and hip joints, moving eyes, [illegible] curly mohair wig, long [illegible] ribbon bow in hair, [illegible] teeth, white [illegible] socks, buckled slippers with heels

F7345—15 in.	Each,	$ 6.75
F7346—20 "	"	7.75
F7347—26 "	"	Temp Out

"LITTLE MISS" DRESSED DOLLS

Two exceptional values. Offered at very reasonable prices

Composition heads and hands painted features, moving eyes, well stuffed [illegible] [illegible] Each box

F7320 [illegible] in., curly mohair wig, [illegible] side parts, bow [illegible] ribbon [illegible] underwear, white socks and slippers Each $2.90

F7334—[illegible] in., mohair wig, ribbon bow, white [illegible] baby [illegible] trim [illegible] and white straw hat, white [illegible] wear, lace stockings and white slippers Each $3.75

"DAINTY MAID" DRESSED DOLLS

STAR VALUE

[illegible] composition breast plate head [illegible] features, long [illegible] human hair wigs, stitched side parts, [illegible] brown bows, moving eyes, well stuffed bodies, [illegible] and shoulder [illegible] white [illegible] lace trim underwear, white socks and slippers

F7342 [illegible] in.	Each,	$5.00
F7343—28 "	"	8.50

RALEIGH DOLLS

Dolls of Unusual Merit

Made in America and created by Jessie McCutcheon Raleigh. Extensively known for their distinctive and characteristic styles. Expertly modeled from living children, having the most realistic facial features of any dolls produced.

RALEIGH "MOTHER GOOSE" NOVELTY DOLLS

Six big sellers, loved by the little folks. Full composition bodies, natural tinted turning heads, hand painted eyes and features, moving arms and legs, all with sewed mohair wigs stitched side parts, with ribbon bows. We recommend that you buy in assorted lots. 1 in box. Note: $2.75 each in 4 doz. lots; single or assorted styles $2.75 each

"Goldilocks" — Lace trim white lawn frock, pinafore of yellow with stenciled "Three Bears," yellow sunbonnet with brown ribbon strings, lawn underwear, white socks, brown slippers.
F7445—12 in. Each $2.75

"Red Riding Hood" — Lace trim lawn dress, ribbon bound neck, red cape with attached hood, elastic shirred front, ribbon tie strings, lawn underwear, white socks, red slippers.
F7446—12 in. Each, $2.75

"Mama's Angel Child" — Side curls, ribbon trim lawn dress with solid pink or blue wide colored sash with bow, lawn underwear, white socks, colored slippers.
F7440—12 in. Each $2.75

"Miss Muffet" — [illegible] dress, full skirt, ruffle heading, [illegible] white collar, [illegible] cap to match, spider [illegible] stenciled on skirt, lawn underwear, white socks, kid slippers.
F7443—12 in. Each, $2.75

"Mary had a Lamb" — [illegible] white band around [illegible] wide collar and cuffs, [illegible] match white kid lamb [illegible] qued on skirt, white socks and slippers to match
F7[illegible] in. Each $2.75

STAR VALUE — Peggy [illegible] dress, lace [illegible] lawn underwear, white slippers [illegible]
F7441 12 in. Each, **$2.50**

NEW RALEIGH 1920 DOLL SEXTETTE

The six best dressed dolls in America. Light weight cork stuffed bodies, breast plate heads, moving eyes, painted features, human hair wigs, stitched side parts, long curls can be combed without injuring shoulder and hip joints, composition forearms and legs to knee, hands with free fingers. 1 in box

"Miss Virginia" — Frock of dainty [illegible] flowered material, solid color bias trimmed square neck and elbow sleeves, lace [illegible] with [illegible] crown lace trimmed, underwear, white stockings and slippers
F7[illegible] in. Each **$9.50**

Polly — Fine white dimity [illegible] skirt with lace edging, lace trim neck and sleeves, ribbon bow, white [illegible] underwear, white stockings, colored slippers
F7[illegible] in. Each **$9.50**

"Mary" — Quite Contrary — Fancy [illegible] dress with flowered [illegible] lace trim, [illegible] flower pot effect head necklace, [illegible] underwear, white stockings, black [illegible]
F[illegible] Each, **$9.50**

"Poppy" — Tan voile dress, red trim neck, sleeves and skirt [illegible] red bow in hair, [illegible] underwear, white stockings, black slippers, with red ties
F[illegible] in. Each **$9.50**

"Peggy" — Fine [illegible] lawn, [illegible] contrasting [illegible] ruffle on skirt, [illegible] waist round neck, [illegible] hat to match, [illegible] underwear, white stockings and slippers
F7490—24 in. Each, **$9.50**

Miss Muffet — Flat [illegible] dress, [illegible] full skirt with [illegible] new stitched hem, deep ruffle heading, stitched in black, deep lawn collar, [illegible] with spider, [illegible] cap to match, [illegible] underwear, white stockings, [illegible] lace trim, [illegible] white pockets, black [illegible]
F[illegible] Each **$9.50**

"LUCILLE" RALEIGH DOLL

STAR VALUE — F7492 — 14 in. [illegible] cork stuffed body breast plate, moving eyes, painted features, human hair wig, stitched side parting, curls can be combed. Jointed arms and hips, composition forearms and legs to knee. Fine white [illegible] dress, ribbon trimmed neck corsage bouquet, [illegible] party cape of pale blue silk lined with pink silk, picotte trim, hat to match with floral ribbon trimming, lace trim underwear, white stockings, colored slippers. 1 in box. Each **$10.00**

EXTRA QUALITY RALEIGH DOLLS

Big selling numbers beautifully modeled. The prices are as low as possible

Full composition bodies, [illegible] hair [illegible] beautifully modeled [illegible] moving eyes, [illegible] painted side [illegible] joints, [illegible] hands with free fingers. 1 in box

"Gloria" — Blue [illegible] silk dress, [illegible] waist, [illegible] ribbon ruffle on neck and sleeves, white socks, colored kid slippers
F7481 [illegible] Each **$8.50**

"Betty" — Pink [illegible] yellow sheer silk frock with lace edged skirt, rows of shirring at belt, lace trim neck and sleeves, ribbon rosette at shoulder, white socks, colored kid slippers
F7483—22 in. Each, **$8.50**

Daisy — White [illegible] dress, [illegible] lace edged [illegible] white socks, colored slippers
F7482 [illegible] Each **$8.50**

"BEAUTIFUL" RALEIGH DOLL

STAR VALUE — F7494 — 14 in. [illegible] cork stuffed and breast [illegible] moving eyes, painted features, human hair wig stitched [illegible] part, curls can be combed, [illegible] and hips, composition forearms and legs to knee. Fine [illegible] dress with lace [illegible] waist, [illegible] with lace [illegible] back with [illegible] large bow back with black [illegible] large [illegible] pockets with bright flowers, and to match [illegible] white stockings, colored slippers. 1 in box. Each **$10.00**

AIR RIFLES

DAISY

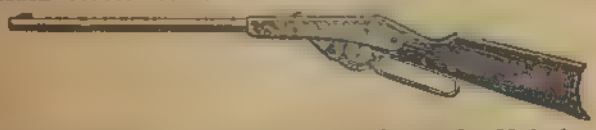
No. 40—Military. 50 shot lever action repeater. Blued finish. Walnut finished stock. Length, including bayonet, 45 inches. Weight each, 3¾ lbs. Packed one in cardboard box, 6 in case. Weight per case, 38 lbs..**Each $5.00**

TAKE DOWN

No. 25—100 Shot. Pump action, blued finish, adjustable sight. Weight each, 3¼ lbs. Length, 38 inches. Packed one in cardboard box, 6 in case. Weight per case, 25 lbs .....**Each $5.00**

No. B3D—1000 Shot. Lever action, blued finish. Packed one in cardboard box. One-half dozen in case. Weight, 24 lbs .....**Per dozen $48.00**

No. 3D—1000 Shot. Lever action. Nickel plated. Length, 36 inch. Packed half dozen in case. Weight 21 lbs. Per dozen **$36.00**



No. 30D—500 Shot. Lever action, nickel plated. 33 inch long. Packed half dozen in case, 20 lbs. Weight each, 2 lbs, 1 oz.....**Per dozen $33.00**

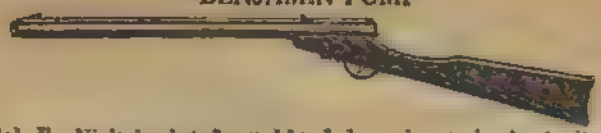
No. 11D—500 Shot, Lever action, nickel plated, packed one dozen in case. Weight, 26 lbs. Length, 31½ inch Per dozen **$27.00**

No. 12D—Single shot. Lever action, nickel plated. Packed one dozen in case. Length, 31½ inches. Weight per dozen, 26 lbs.....**Per dozen $24.00**

DAISY

No. 20D—Little Daisy. Single shot. Nickel plated. Length, 28½ inches. Weight per dozen, 13½ lbs....**Per dozen $13 00**

BENJAMIN PUMP



Model B—Nickel plated or blued barrels, walnut stock, single shot take-down. Larger barrel is the pump and air chamber, smaller one is the shooting barrel. Length, 37 inches. Packed one in a carton. Weight, 2 lbs.
Per dozen **$60.00**

POP GUNS

DAISY

No. 14—Big Daisy. Shoots both cork and rubber ball which are furnished with the gun, with loud noise, but with no danger to the user. Genuine walnut stock. Steel frame nickel plated. Length, 21 inches. Packed one in carton, 3 dozen to case. Wt per dozen, 12 lbs..**Per dozen $10.80**

No. 16—Military Daisy. Pump action, makes a loud report, with absolutely no danger. Equipped with sling and detachable rubber tipped bayonet. Steel frame blued and fitted with walnut stock. Length over all, 31 inches. Packed one in a hinged cover box; 3 dozen in a case. Weight per dozen, 15 lbs.....**Per dozen $13.00**

No. 10—Little Daisy Pop Gun. Shoots a cork that makes a loud report, with absolutely no danger. Length, 17 inches. Weight, 7 ozs each.....**Per dozen $5.40**

AIR RIFLE DARTS

DAISY

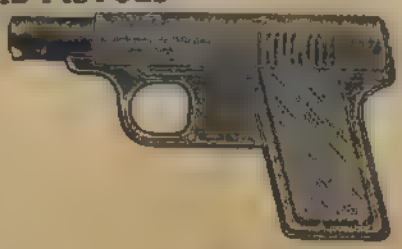
Assorted colors, red, white and blue. Attached to handsomely lithographed display card, together with steel claw for removing darts from targets.

Weight per dozen, lbs..... 1
Per dozen .... **...$0 30**

LIQUID PISTOLS

DAISY

The new Repeating Liquid pistol that shoots 5 shots in one loading. Filled by putting pistol into water and drawing back the barrel. Designed as an automatic pistol. Polished steel, blued finish. Length, 5½ inches.



No 9

No. 9—Weight per dozen, 4½ lbs.....Per dozen $12.00
No. 6—Similar in finish and construction to the No 9 but a single shot pistol.....Per dozen 86 00
One in a carton

We recommend special air rifle shot in all air guns, it being a size specially adapted to them.

SINGLE SHOT RIFLES

REMINGTON

NEW MODEL. TAKE DOWN

Automatic shell-ejector, which throws the shell out of rifle when breech is opened. To detach barrel and forearm, throw lever forward on the right side and pull out.

No. 422—22 calibre. Short and long. R. F., 22½-inch barrel.

Weight each, 4½ lbs. ..... **Each $15.54**

No. 622—22 calibre. Take down. Decarbonized steel barrel, 20-inch. Tang peep sight. Shoots 22 short, long. Stevens-Pope and long rifle cartridges. Weight, each, about 3½ lbs.

Each **$10 46**

No. 6822—6 calibre. Take down. Smooth bore. Otherwise same as No. 622.

Each **$10 46**

HAMILTON

NO. 027. TAKE DOWN

No. 027—22 Calibre. Bolt type action. Walnut stock and forearm, turned and handsomely finished. Open rear sight and adjustable front knife sight. Chambered to shoot 22 short and long cartridges. Length over all, 30 inches. Barrel tapered; length, 16 inches. Weight, 2¾ lbs.

Each **$5.00**

NO. 27. TAKE DOWN

No. 27—22 Calibre. Hammer action, exceedingly simple and of few parts, and an automatic ejector, which releases shell when the barrel is "broken down." When the shell is inserted and barrel closed, the thumb piece is thrown to the right and securely locks barrel, at the same time bringing firing pin into alignment with hammer. A solid breech block makes action absolutely safe from rear explosion of a defective shell. Shoots 22 short and long rim fire cartridges. Weight, 2 lbs.

Each **$4.00**

STEVENS

FAVORITE. NO. 17. TAKE DOWN

22-inch. Half octagon blued barrel. Case hardened frame.

No. 1722—22 Calibre. Shoots BB and CB caps, short, long, Stevens-Pope and long rifle cartridges. Rocky mountain front and leaf rear sights.

Each **$14 00**

No. 2722—22 Calibre. As No. 1722. Fitted with 24-inch full octagon barrel.

Each **$15 00**

Average weight, each 4½ lbs

No. 1222—22 Calibre. Fitted with 20-inch round tip-up barrel. Bead front and open rear sights. Shotgun butt. Especially designed for smokeless powder ammunition. Shoots BB and CB caps. Short, long and long rifle cartridges.

Each **$12.00**

Weight each, 4 lbs

CRACK SHOT

No. 2622—22 Calibre. Round, blued 20-inch barrel. Case hardened frame. Shoots BB and CB caps. Short, long, Stevens-Pope and long rifle cartridges. Plain sights. Weight each, 3¾ lbs.

Each **$10 00**

No. 14½S—22 Calibre. 18-inch round barrel. Open rear and nickel silver knife-edge front sight. Shoots 22 short, 22 long and 22 long rifle cartridges. Weight each, 2½ lbs.

Each **$8 00**

FLOUR AND FEED GRINDER

Our Mill will not only grind flour and meal, but will also grind your feed for stock purposes. Will grind from six to twenty bushels per hour, requiring from one and one-half to three horse power, depending upon the condition of the grain and fineness of grinding. Can be adjusted for either coarse or fine grinding.

The burrs are 5½ inches in diameter and are made of a special mixture of iron and steel for hardness, long life and durability. They are self aligning and flexible, and can be changed in the mill in about three minutes time.

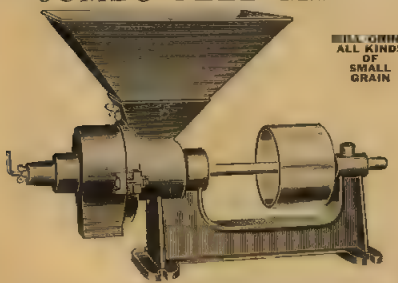
We furnish regularly with each mill two sets of burrs, one coarse for grinding feed and cracking corn, etc., and one medium for grinding table meal. We also make an extra fine burr for grinding flour, which may be substituted in place of either coarse or medium with regular equipment if desired and so stated.

Two important features, **not to be overlooked,** in this mill, are the **position of the pulley,** and the **positive feeding device.** We have placed the pulley on the **outside** of the mill, which eliminates the necessity of inducing a belt when same is to be used elsewhere. It also allows different size pulleys to be used. The pulley furnished regularly is 6¾-inch diameter, 4½-inch face, and should run from 600 to 1,000 revolutions per minute. If desired we can furnish either of the following size pulleys in place of regular, without extra cost: 8x4-inch, 10x3 or 12x3-inch.

The **sifter or bolting attachment** is made of galvanized steel with very fine bolting screen which is operated by a small cam attached to the main shaft, giving it a back and forth vibration allowing only the fine meal to pass through the screen, and the hulls over the end. It may be attached or detached from the machine by a very simple operation. This attachment has proven to be very successful. See prices for this attachment. Shipped direct to you from Wisconsin factory.

B-9000—	"Superior" Flour, Meal and Feed Grinder without legs, fly wheel and flour sifter, weight 75 pounds	$19.95
B-9002—	Legs, per pair, weight 20 pounds	2.95
B-9002—	Fly Wheel, weight 20 pounds	2.95
B-9003—	Flour Sifter or Bolting Attachment, weight 8 pounds	4.94
B-9004—	Extra Burrs, per set, weight 5 pounds	1.40

JUMBO FEED MILL



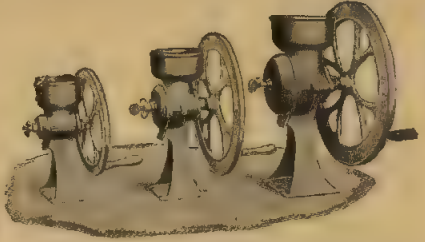
Can Be Furnished With or Without Legs.

Our Jumbo feed mill is constructed of good materials and if fully guaranteed to do all work intended of the same in a very satisfactory manner. It is built entirely of iron and steel and every part is strong enough to resist six times the actual working strain. The bearings are long and lined with a high grade of babbitt and can be oiled while mill is running. The burrs are 6 inches in diameter, ground perfectly true, and made of the hard white iron. Can be adjusted for fine or coarse grinding while running. The Jumbo will grind shelled corn, wheat, oats, spelts, barley, rye and all kinds of small grain, separately or mixed grain. All mills shipped with two sets of burrs, one fine and one coarse set. Capacity as follows:

Pulley, 7 inches diameter, 4-inch face. **Capacity**—5 to 8 bushels per hour with 1½ h. p. engine; 8 to 12 bushels per hour with 2 h. p. engine; 10 to 18 bushels per hour with 3 h. p. engine, 15 to 22 bushels per hour with 4 h. p. engine. **Speed**—about 150 revolutions per minute with 1½ h. p. engine; 200 revolutions per minute with 2 h. p. engine; 300 revolutions per minute with 3 h. p. engine, 400 revolutions per minute with 4 h. p. engine. Shipping weight about 85 pounds. Shipped from Iowa factory.

B-1090—	Jumbo Feed Mill without legs	$14.50
B-1091—	Jumbo Feed Mill with legs	17.50
B-1092—	Extra Burrs, weight 3 pounds, per set	1.20
B-1093—	Balance wheel, weight 15 pounds	1.75
B-1094—	10 foot Wagon Elevator	31.50
B-1095—	5 foot Sucking Elevator	20.50

SMITH HAND GRIST MILLS



Smith Mills are strong and durable and for use where a small quantity of grinding is to be done they cannot be equalled. All mills are adjustable to grind either fine or coarse. Will grind all kinds of small grain, coffee, salt, dry bones or dry shells. Made in three sizes. The small size is suitable for use in the kitchen for grinding coffee, cracking corn or for a small flock of poultry. The second size is considerably larger and has large capacity, and the heavy balance wheel enables the grinding to be done proportionately easier. The largest size is almost equal to a small power mill and will easily do the grinding for several head of stock. Each mill is packed in a wooden box for shipment. Shipped from Wisconsin factory.

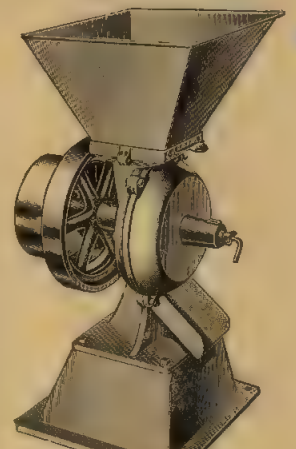
B-2282—	Small Grist Mill, weight 25 pounds	$3.25
B-2283—	Extra burrs, small size	.80
B-2284—	Medium Grist Mill, weight 50 pounds	6.20
B-2285—	Extra Burrs, medium size	1.00
B-2286—	Large Grist Mill, weight 75 pounds	8.95
B-2287—	Extra Burrs, large size	1.45

REX SMALL GRAIN MILL

MADE IN TWO SIZES

$22.25 AND **$30.75**

TWO SETS BURRS AND BALANCE WHEEL ARE FURNISHED WITH EACH MILL.



The Rex Small Grain Feed Mills are built entirely of iron and steel. All parts are extra heavy and strong enough to resist six times the actual strain of grinding. These mills will grind all kinds of small grain separately or mixed. The bearings are the anti-friction ball bearings with end thrust; they are extra long and lined with a high grade of babbitt and are conveniently oiled while mill is running. The flow of grain to the burrs is regulated by opening or closing slide in bottom of hopper. The auger force feed insures the mill against clogging. The grinding burrs are harder than the hardest tempered steel. They are made of a special mixture of the very hardest of iron and steel and are most durable. All mills shipped with Balance wheel and two sets burrs, one set coarse, one set fine. Shipped direct to you from Iowa factory.

Size	No. H. P. Required	Diam. of Burrs	Size of Pulley	Speed Required per Hour	Capacity per Hour	Weight
12	5 to 7	7¼ in.	8x6 in.	500 to 700	25 to 35 bu.	180 lbs.
14	8 to 10	10 in.	12x6 in.	500 to 700	35 to 60 bu.	295 lbs.

B-2287—	No. 12 Mill	$22.25
B-2288—	Extra Burrs, per pair	1.45
B-2289—	No. 14 Mill	30.75
B-2300—	Extra Burrs, per pair	2.95

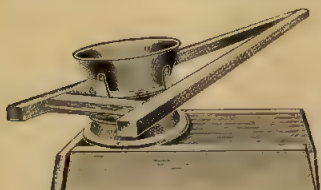
Daisy Triple Geared Sweep Mill

ENCLOSED GEAR STRONG AND DURABLE. GEARED 3 TO 1. BEARINGS RUN IN OIL.

The Daisy Feed Mill is geared three to one, making it exceptionally light draft and large capacity. Owing to its construction, friction is reduced to a minimum. Guaranteed to run as light as any make of geared mill with same capacity, also guaranteed against defects in material or workmanship for a period of five years. The gearing on the Daisy Mill is of the straight spur gear pattern. Speeded three to one, making three revolutions to each round of the team. Gears are enclosed, insuring against accidents of any kind. Perfect oiling system insures keeping of bearings well supplied with oil. The burrs are constructed from the best grade of material and the construction could not possibly be improved upon. Burrs—We can supply either coarse or fine burrs with this mill, when ordered. Unless specified in order, coarse burrs are shipped. These burrs will give good service until entirely worn out. They being the important feature of any mill, it is well to note carefully the material out of which the burrs in a feed grinder are made. Burrs are 50 inches in circumference. The Hopper is made of extra heavy galvanized steel and will not rust out like the hoppers in the low priced mills on the market. The capacity of the Daisy Mill—Grinds from 30 to 45 bushels per hour of shelled corn with all-purpose burrs and 15 to 20 bushels per hour of small grain with the fine burrs. The capacity of any mill will naturally depend upon the fineness of the grain and the speed of the team. This has an exceptionally large capacity for a mill of this kind. Light draft and easy to operate and nothing to get out of order. We do not guarantee capacity when grinding oats alone. The woodwork is of the best grade of material for this purpose, substantially constructed from start to finish, regular mounting, giving plenty of clearance below mill so that a good sized basket can be used, and it does away with lots of time in shoveling. Shipped complete with one set of burrs, platform, sweep and hopper already set up ready for use. Shipped from factory in Central Iowa.

B-2020—Daisy Triple Geared Sweep Mill; weight 635 pounds. Price **$46.95**
B-2021—Extra Burrs, either Coarse or Fine. Price **11.95**

Northern Junior Sweep Feed Mill



MADE IN TWO SIZES FOR ONE AND TWO HORSES.

The Northern Junior or one-horse mill and the Senior or two-horse mill are made in two sizes and are guaranteed to give complete satisfaction in every way. The Northern Junior is the best one-horse feed mill on the market. It is especially adapted for grinding ear corn for stock, also shelled corn, oats and small grains of every kind. Hopper is large and made of heavy steel. Sweep is made of heavy selected hardwood, and well braced. Box is heavy and make mill hold firmly so that substantial **Directions:** Fasten mill to box with lag screws, all strain of grinding will be on pull braces furnished with each mill and no strain on box. How to regulate burrs for coarse and fine grinding will be sent with each mill. Dry shelled corn is the best kind of grain to start a mill with. The Outside Shell is more perpendicular than cone, which leaves space at top open to receive ears. Blades on inner wall of shell are arranged to match those on cone.

The Burrs are 16 inches in diameter, made of very hardest white iron and is more lasting than tempered steel. A set will grind from 2,000 to 5,000 bushels before wearing out, and can be cheaply replaced, making the mill as good as new as there are no other parts liable to wear or break. One set of burrs is furnished with each mill, and we always send coarse unless fine is ordered. Do not attempt to grind ear corn with fine burrs, or expect to grind fine with coarse burrs. Capacity per hour: Ear corn (70 lbs. to bushel) 8 to 10 bushels; shell corn, 10 to 12 bushels; kaffir corn and small grades, 5 to 8 bushels. Weight, 270 pounds.

B-2022—Northern Junior, with one set of coarse burrs (unless fine are specified) F. O. B. Iowa Factory. Price **$24.95**
B-2023—Extra Burrs, per pair, coarse or fine **4.80**

Northern Senior Two Horse Mill. Same general description as the Junior Mill only larger. The Burrs are 24 inches in diameter. Capacity per hour: Ear corn (70 lbs. to the bushel) 30 to 40, shelled corn, 35 to 50 bushels; small grain, 10 to 20 bushels. Shipped from Iowa factory.

B-2024—Northern Senior 2-horse mill with one set of coarse or fine burrs as ordered. Weight 580 pounds. Price **$35.50**
B-2025—Extra Burrs, per pair, coarse or fine **5.25**

Tell your neighbors about our co-operative plan and induce them to become members of our organization.

Climax Small Grain Mill

CO-OPERATOR'S PRICE

$8.65

REQUIRES FROM 1½ TO 4 H. P.

GRINDS ALL KINDS OF SMALL GRAIN.

This mill is unexcelled for small power, requires but from 1½ to 4 horsepower, takes up but small space and especially desirable for grinding all kinds of grain such as shelled corn, wheat, oats, rye, barley, etc.

The main frame is cast in one piece and is heavy and strong. The bearings are extra long and lined with a good grade of babbitt metal. The shaft is 15-16 inch cold roll steel. The grain is carried from the bottom of the hopper by a conveyor worm which insures a steady and even feed. The burrs are made from a special mixture of metals which is harder than tempered steel and are 5½ inches in diameter. Burrs can be adjusted for either coarse or fine grinding while the mill is running. Has a capacity of from 8 to 20 bushels per hour and should be run at from 150 to 600 revolutions per minute. Capacity of mill depends on the condition of the grain and the speed that the mill is run. Unless otherwise ordered, we furnish a pulley 12 inches in diameter with 3 inch face, but can furnish 10x3 inch or 8x4 inch if so desired. One pair of fine and one pair of coarse burrs shipped. Weight of mill, 65 pounds. Shipped from factory in central Iowa.

B-2026—Climax Mill with two pairs of Burrs **$8.65**
Extra Burrs, per pair **1.10**
Sixteen-pound balance wheel, extra **1.60**
Cast iron sub-base 13x13x6 inches high, extra **2.20**

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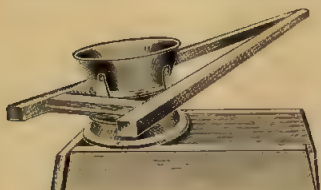
Northern Junior Sweep Feed Mill



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B-2026—Climax Mill with two pairs of Burrs **$8.65**
Extra Burrs, per pair **1.10**
Sixteen-pound balance wheel, extra **1.60**
Cast iron sub-base 13x13x6 inches high, extra **2.20**

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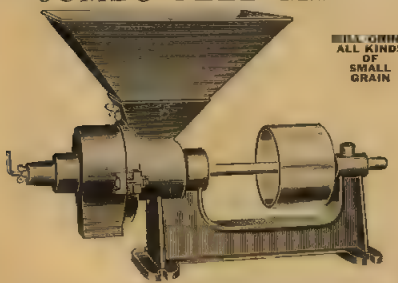

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Pulley, 7 inches diameter, 4-inch face. **Capacity**—5 to 8 bushels per hour with 1½ h. p. engine; 8 to 12 bushels per hour with 2 h. p. engine; 10 to 18 bushels per hour with 3 h. p. engine, 15 to 22 bushels per hour with 4 h. p. engine. **Speed**—about 150 revolutions per minute with 1½ h. p. engine; 200 revolutions per minute with 2 h. p. engine; 300 revolutions per minute with 3 h. p. engine, 400 revolutions per minute with 4 h. p. engine. Shipping weight about 85 pounds. Shipped from Iowa factory.

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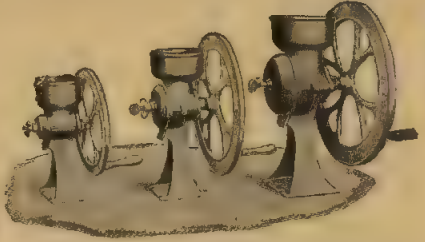

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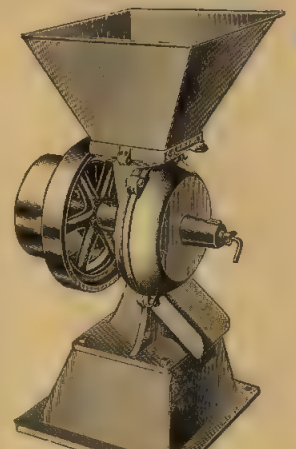

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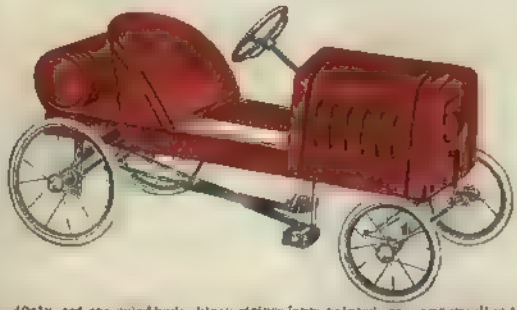
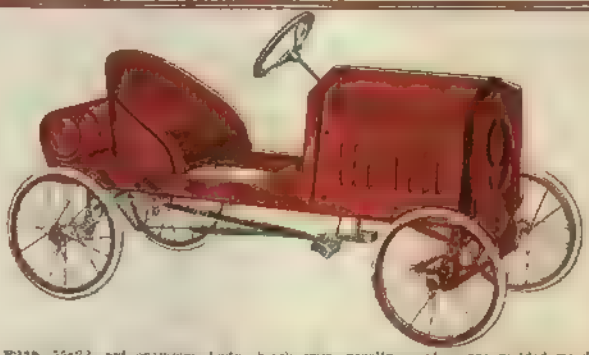
B-2289—	No. 14 Mill	30.75
B-2300—	Extra Burrs, per pair	2.95

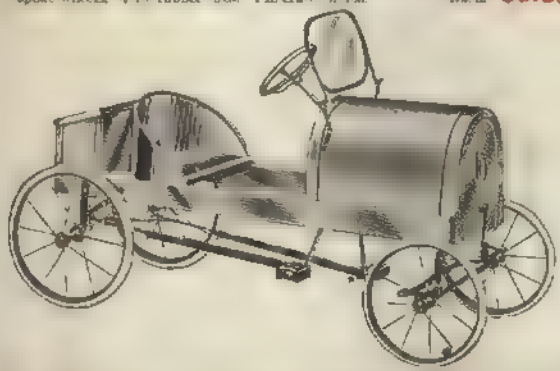
TOY AUTOS



F253—40x18, red enameled body, black stripes, large painted seat, front gasoline tank, steel steering wheel, auto steering knuckles, 8 and 10 in. spoke wheels, ¾ in. rubber tires. 1 in crate, 75 lbs. Each **$8.25**

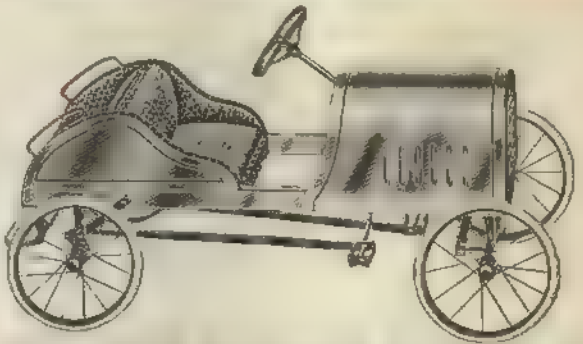


F258—36x22, red enameled body, black trim, gasoline tank, large padded wood seat, mahogany finish steering wheel and steering knuckles, 12 in. double spoke wheels, ¾ in. rubber tires, 1 in crate, 82 lbs. Each **$14.25**



F272—40x18, orange body, black stripes and trimmings, 10x... double spoke wheels, ¾ in. rubber tires, large tool box, adjustable windshield. 1 in crate 45 lbs.

Each, **$9.25**

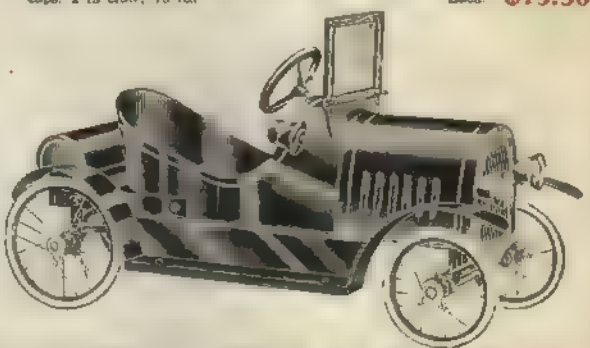


F275—Two seated 36x22, orange enameled body, black striping, padded seats, black leatherette upholstering, rear seat faces back, with step, mahogany steering wheel, 12 in. wheels, ... inch rubber tires, nickel plated, hub caps. 1 in crate, 75 lbs.

Each. **$15.50**

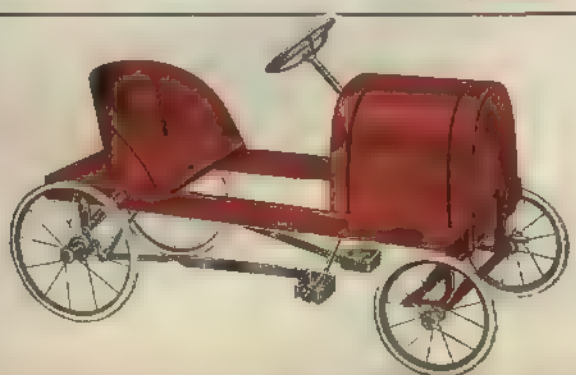
F285—44x24, yellow enameled body, black enameled windshield, gasoline tank, mahogany finish wood steering wheel, 10 and 12 in. spoke wheels, ¾ in. rubber tires. 1 in crate

Each **$10.00**



F310—44x24, electric lights, switch on dash board, push button on footrest at seat, windshield, brass enameled hood, yellow stripes, red wheels, mahogany finish steering wheel, 16 and 12 in. spoke wheels, ¾ in. rubber tires, brass auto lamps. 1 in crate, 75 lbs.

Each **$28.00**



SPECIAL "DAN PATCH" TOY AUTO

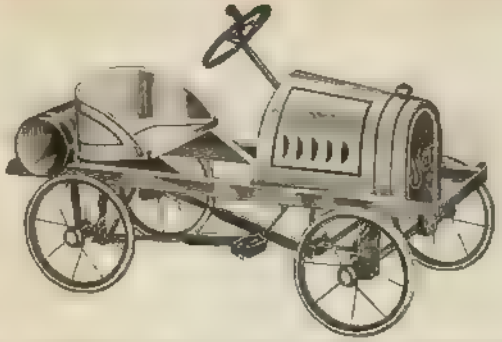
For children 3 to 6 years. Most popular style and best selling size at an unmatchable price.

F270—37x19, strong wood frame, red body, black striped [illegible] gear, 14 in. wheels, ¾ in. rubber tires, steel steering wheel, starting crank. 1 in crate, 47 lbs.

Each, **$6.40**

TOY AUTOS

The American National Co

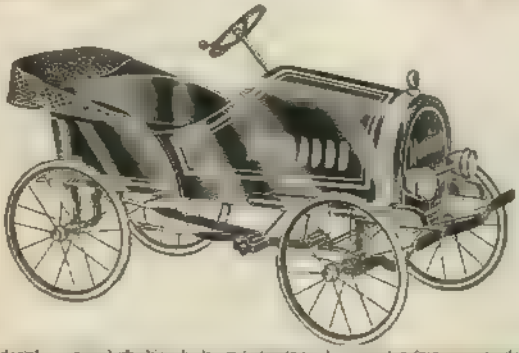


Star" 10 x 18½, canary yellow body, red seat and stripe. Black enameled knuckle joint auto gear and steering wheel, gas and spark control, bumper, nickel plated hub caps, 14 in double spoke wheels, 1¾ in rubber tires.

F226—1 in crate, 30 lbs. Each **$7.25**

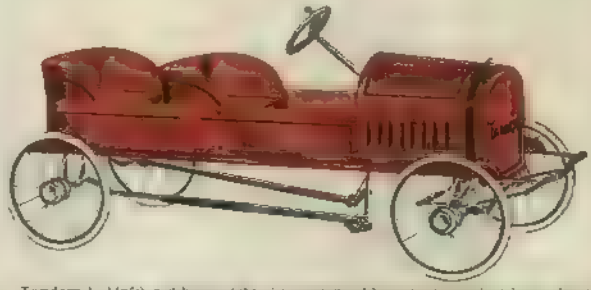
Swift" 13x39, red seat and frame, black hood, red radiator front, 14 in double spoke wheels, 2 in rubber tires, wood rim steering wheel, gas and spark control, nickel plated wind-shield, adjustable spare gas tank, tail lights, motor meter cross, fenders, back bar, jack, nickel plated hub caps.

F228—1 in crate, 50 lbs. Each **$15.25**



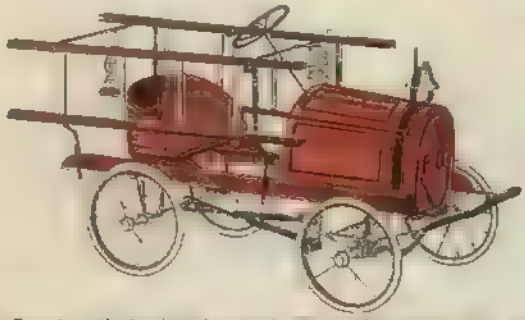
Hudson" 14x36, high hood, body and seating, dark yellow finish, 32 in double spoke wheels, 2½ in rubber tires, knuckle joint gear, gas and spark control, bumper, side rail, tank, mud guards, nickel plated top, nickel plated hub caps.

F229—1 in crate, 45 lbs. Each **$12.00**



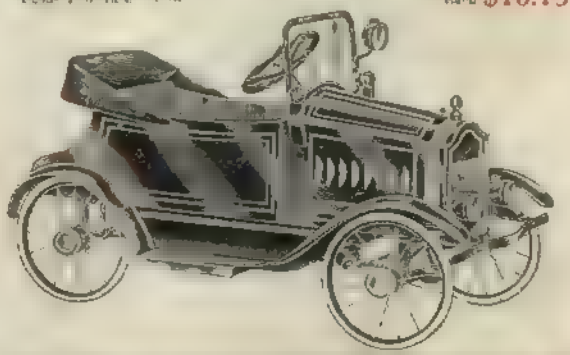
Tandem" 14x36, red body, right hand steering, 12 in double spoke wheels, 1¾ in rubber tires, knuckle joint gear, gas and spark control, bumper, large nickel plated hub caps.

F233—1 in crate, 45 lbs. Each **$16.75**



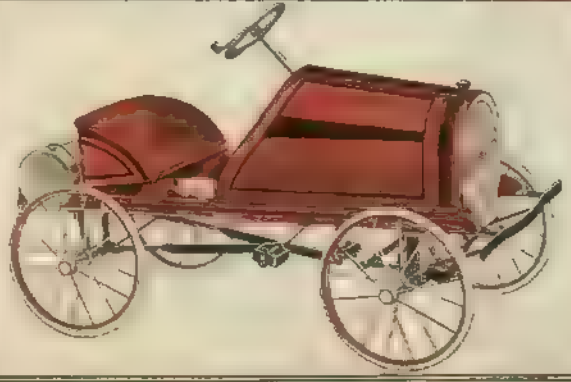
Fire Department" 14x36, bright red body, brass trimmings, 12 in double spoke wheels, 1¾ in rubber tires, knuckle joint gear, gas and spark control, bumper, hand hub caps.

F238—1 in crate, 45 lbs. Each **$12.75**



Racer" 13½ x 36 inch enamel body, red seat, 12 in double spoke wheels, 2 in rubber tires, wood rim steering wheel, gas and spark control, nickel plated tank, motor meter, nickel plated wind shield, adjustable spare gas tank, tail lights, jack, nickel plated hub caps, bumper.

F235—1 in crate, 50 lbs. Each **$21.00**



"HORNET" AMERICAN NATIONAL TOY AUTO

An exceptional value in one of the most popular selling toy autos on the market.

F227—13x39½, red body, wide yellow panels, striped in yellow, yellow radiator front, 12 in. double spoke wheels, 1¾ in rubber tires, knuckle-joint gear, gas and spark control, bumper, nickel plated hub caps. 1 in crate, 40 lbs.

Each, **$9.50**

DAZEY CHURNS

SPECIFICATIONS Extra Heavy Clear Glass Jar, with a smooth finish top. Steel screw-cap, heavily nickel plated. Dasher of white maple. Ash rod of steel, tinned, making it rust-proof. Frame cast in one piece. Natural finish wood handle. Gears carefully fitted to run smooth and noiseless. All castings double aluminum coated.

NUMBERS		10	20	30	40
Capacity, Pints		2	4	6	8
Churning Capacity, Pints		1	2	4	5
Size of Jar, Inches		3¾x7½	4½x8	5¼x9	6x9½
Height Over all, Inches		11	12	13	14
Weight, Each		3	5	6	7
Weight Boxed, Per Dozen		60	84	118	132
PRICE, Per dozen	Stock	$18.85	26.45	32.60	44.25
	Factory	$17.10	24.25	29.50	40.90

Nos. 10 and 20, packed 12 in wood case. Nos. 30 and 40, packed 6 in wood case

EXTRA GLASS JARS FOR DAZEY CHURNS.

NUMBERS		10-J	20-J	30-J	40-J
Weight Boxed, About, Per Dozen		48	60	80	96
PRICE, Per dozen	Stock	$4.50	7.40	10.15	13.90
	Factory	$3.45	5.70	8.00	11.40

THE DAZEY PRINCIPLE

BUTTER-MAKING PROPERTIES OF CREAM. The principal butter making property of cream is butterfat which is an oil contained in a tissue or skin known as fat globules and best compared to a soft shell egg. There are millions of these tiny globules in a single drop of cream.

OLD METHOD. The principle of the ordinary churn is to break these globules, allowing time for to rise and gather at the surface of the cream resulting in salvy butter therefore it stands to reason that the more scientific way would be to remove these globules in their natural state. DAZEY CHURNS were constructed with this object in view.

THE DAZEY METHOD. The powerful DAZEY turbine dasher in connection with the square receptacle produces a thorough and scientific agitation which bunds up into dry uniform grains about the size of rice all the butter making properties of the cream without disturbing their natural state. This method produces more and better butter in six to fifteen minutes time.

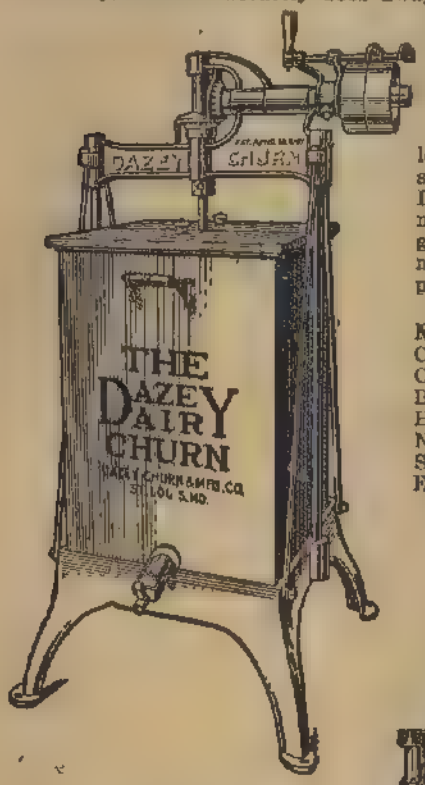
SANITARY FEATURES. The receptacles are non absorbent, no cracks to harbor the cream and become rancid as with a great many churns, therefore perfectly sanitary. The receptacles are light and as easily washed as any kitchen utensil. May be turned without warping of the seams opening up.

TIME AND LABOR SAVING FEATURES. DAZEY CHURNS turn easy and will positively produce the highest grade of butter in six to fifteen minutes. Eliminates the necessity of working the butter for the reason that during the building up of the grains the milk is squeezed to the surface and when the grains have been washed in the churn as per direction (included with each churn) the butter is then ready to salt and mould.

The receptacle and dasher are easily removed from the churn and may be taken to any convenient place for washing or scalding

DAZEY CHURNS

Any churn will agitate and make butter, but the Dazey is the only one that produces butter in its natural condition. In place of breaking the delicate tissues in which the butter fat or oil is contained, and bringing this into a mass, the Dazey drives the cream across the slanting wings and tenderly rolls the tiny globules in their natural condition into grains about the size of rice. During this building-up process the casein and other butter making properties in cream, usually lost with other churns, sticks to and rolls up with the butter globules, which is the reason the Dazey makes more butter. The hard uniform size grains during this building-up process have squeezed out all the milk, therefore to wash off outside of grains is all that is necessary, which absolutely does away with butter-working.

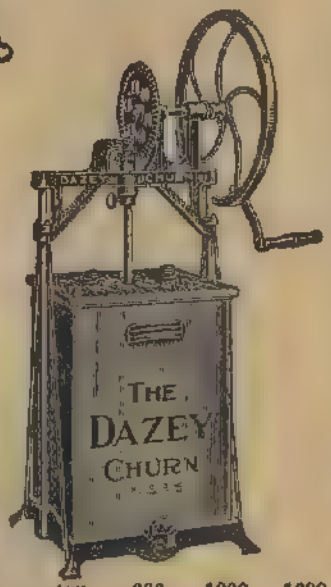


POWER, TIN

Fitted with tight and loose pulleys and belt shifter. Porcelain knobs. Dash rod, steel, heavily nickeled. Machine cut gears. Nickel plated white metal faucet. 6X triple plated tin receptacle.

No.	2800
Capacity, gallons	28
Churning cap, gals.	18
Base spread, inch	23
Height over all, inch	48
Net wgt each, lbs	125
Ship wt ea, crtd, lbs	193
Each	$60.00

One in crate



HAND, TIN

No. 600

Wood knobs. Dash rods, steel, heavily tinned. Heavy cast iron gears. Nickel plated brass faucets. XX triple plated tin receptacle.

No. 1600

Porcelain knobs. Dash rods, steel, heavily nickeled. Heavy cast iron gears. Nickel plated brass faucets. XXXXXX triple plated tin receptacle.

Nos.	400	600	1000	1600
Capacity, gallons	4	6	10	16
Churning capacity, gallons	3	4	7	12
Base spread, inch	11	12	15	19
Height over all, inch	27	31	39	47
Net weight each, lbs	16	27	40	70
Shipping weight each, crated, lbs	24	35	58	100
Each	$9.00	12.00	18 00	35.00

One in a crate.

EXTRA GLASS JARS FOR DAZEY CHURNS

Nos.	10J	20J	30J	40J
Net weight per dozen, lbs	21	42	54	66
Shipping weight boxed per dozen, lbs	35	65	81	95
Per dozen	$7 80	12 00	15.00	18.00

One-sixth dozen in package. One dozen in case.

HAND, TIN

Base—Best gray iron. Covers—Two-piece white maple. Dasher—Seasoned white maple. Finish—All of frame aluminum coated. Receptacle outside enameled blue.

Wood knobs, dash rods, steel heavily tinned. Heavy cast iron gears. Cork lined screw cap drain. 2X triple plated tin receptacle.

Nos.	100	200	300
Capacity, gallons	1	3	3
Churning capacity, gal	½	1	2
Base spread, inch	7	8	10
Height over all, inch	15½	21	25
Net weight each, lbs	5	8	13
Sp wt each, crated, lb	9	13	21
Each	$4 50	5.75	7.50

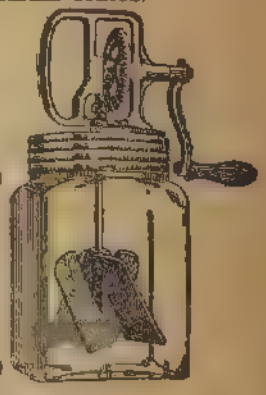
One in a crate.

HAND, GLASS

Extra heavy clear glass jar, with finished smooth top. Steel screw-cap heavily nickel plated. Dasher of white maple thoroughly seasoned. Dash rod of steel, tinned. Frame one piece. Natural finish wood handle. Gears carefully fitted to run smooth and noiseless. All castings double aluminum coated.

Nos.	10	20
Capacity, pints	2	4
Churning capacity, pints	1	2
Height over all, inch	11	12
Dozen in case	1	1
Net weight each, lbs	3	[illegible]
Shipping weight case, lbs	59	84
Per dozen	$19 80	27.00

Nos.	30	40
Capacity, pints	6	8
Churning capacity, pints	4	5
Height over all, inch	13	14
Dozen in case	½	½
Net weight each, lbs	6	7
Shipping weight case, lbs	54	64
Per dozen	$33.00	42.00



ELECTRIC

Frame—Gray iron and steel aluminum finish. Covers—White maple, natural finish. Dasher—Four-blade Dazey turbine, white maple. Receptacle—Copper bearing charcoal tin, triple plated, blue enamel outside. Easily detached for cleaning. Faucet—Sanitary for drawing off milk or washing water. High Base—Allows pail placed under faucet to catch milk or water. Motors—Guaranteed and mounted on frame, 110 and 220 volts 60 cycle single phase A.C. 220 volt. Factory shipment only.

Nos.	450M	650M	1050M
Gross capacity, gals	4	6	10
Churning cap, gals.	2	3	5
Motor, H. P.	⅛	⅛	⅛
Height over all, inch	31	34	36
Wt each, crated, lbs	75	85	100
Each	$54 00	60 00	72 00

Each complete with motor, belt and 10-foot cord.

CHURNS

Trade Capacity

WOOD BARREL

Dovetailed oak staves. Oak stand. Galvanized castings. White pine covered; cork lined and reinforced. Nos. 4 and 5 have handle on each side.

Nos.	0	1	2
Trade cap., gal.	5	9	15
Churning capac., gal.	2	4	7
Dia. churn, in.	14	16	19½
Length, in.	15	18	18
Ship wt ea, lbs	30	34	40
Each	$8.00	9.00	10.00
Nos.	**3**	**4**	**5**
Trade cap., gal.	20	25	35
Churning capac. gal.	9	13	16
Diameter, in.	19½	23	25
Length, in.	21	23½	23½
Ship wt ea, lbs	46	70	77
Each	$11.00	14.00	16.00

Loose

CYLINDER

Dovetailed white pine staves. Dashers attached to steel shafting. Can be removed for cleansing.

Nos.	1	2
Trade capacity, gal.	4	8
Churning capacity, gal	2½	4
Diameter, inch	13¼	15¼
Length, inch	9¾	11½
Net weight each, lbs.	9	12
Dozen in crate	½	½
Ship weight crate, lbs.	72	92
Each	$6.00	7 50

No.	3
Trade capacity, gallons	12
Churning capacity, gallons	7
Diameter, inch	17½
Length inch	13½
Net weight each, lbs.	15
Dozen in crate	½
Shipping weight crate, lbs.	115
Each	$9.50

TIN

IX tin. Double seamed and soldered. Removable lid. Wood dasher.

Nos.	12	13
Capacity, gals	2	3
Diameter bottom, inch	8¼	8¾
Height, inch	13¾	14
Net weight per dozen, lbs.	30	33
Per dozen	$23 00	25.00

Shipping weight adds 100% to net weight.

EXTRA DASHERS

Length, inch	42
Net weight per dozen, lbs.	9
Shipping weight per dozen, lbs.	10
All sizes	Per dozen $4.80

WOODEN WARE

BUTTER PRINTS

ROUND

Turned from maple. Smooth polished surfaces. Round cup with fancy design print. Ball top handle.

Size, lbs	⅛	1
Length, inch	5	6
Inside diameter of cup, inch	3¾	4½
Shipping wght per dozen, lbs	7	11
Per dozen	$4.80	7.20

One dozen in a box

INDIVIDUAL

Turned from maple. Plain white finish. Round cup with fancy design 1-ounce print. Handle with ball top.

No.	0
Length, inch	2
Inside diameter of cup, inch	1⅝
Dozen in carton	12
Net weight per dozen, lbs.	1⅛
Shipping weight per carton, lbs.	15
Per dozen	$2.40

BUTTER LADLES

Maple. Smooth surfaces.

No.	18
Length over all, inch	9¼
Size ladle, inch	4¾x5½
Dozen in carton	12
Net weight per dozen, lbs.	3
Shipping weight per carton, lbs.	39
Per dozen	$3.00

Loose.

BUTTER SPADES

Grooved surface. Sharpened end. Smooth handle.

	Holly	Maple
Length over all, inch	8¾	9
Width, inch	2⅝	2½
Dozen in case	12	12
Net weight per dozen, lbs.	1¼	1½
Shipping weight per case, lbs.	22	25
Per dozen	$4.80	1.80

BUTTER MOULDS

CALIFORNIA BRICK

Maple, paraffine finish. Brass hinges.

No.	Brick
Size, lbs.	1
Length, inch	7
Inside diameter, inch	1⅝x2¾
Ship weight dozen, lbs	11½
Per dozen	$7.80

One dozen in case.

SQUARE

Maple, paraffine finish. Two parts held together with brass hinges.

Size, lbs.	1	2
Length, inch	5	7
Size, inch	2⅜x2¾	2⅞x2⅞
Ship weight doz. lbs	9½	15
Per dozen	$7.20	7.80

One dozen in case.

The Dazey Churn

THE MARKET'S BEST CHURNS

The "Dazey" is an entirely new [illegible] Dairy Churn construction. It is built on a scientific principle of butter-making with remarkable labor-saving and sanitary features.

The "Dazey" brings out the butter-making properties of the cream, therefore obtaining the greatest quantity of butter—just like the big creameries.

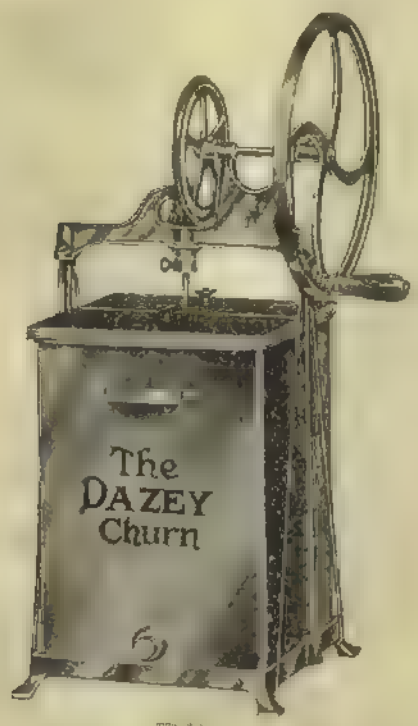
The receptacles of the "Dazey" [illegible] are sanitary and light to handle, and [illegible] the most serious objection to the old wooden churns ordinarily used.

Feature these churns in your store and realize good profits

T7278-80

Will make 2 lbs. of milk charged butter from 1 lb. butter and 1 pt. milk, Turbine style, extra heavy clear glass jar, steel screw cap, beaded [illegible], 1 pc. cast iron frame, gears carefully fitted, double nickel coated finish, wood handled, steel dash rod retinned, white maple dashers. Full instructions with each churn. ⅓ doz. in crate.

GLASS CHURN COMPLETE		GLASS JAR ONLY	
T7278—2 qt.	Doz. $14.00	T7282—2 qt.	Doz. $4.50
T7279—3 "	" 17.25	T7283—3 "	" 6.25
T7280—4 "	" 22.00	T7284—4 "	" 7.50



T7291-93

The Powerful Dasher Makes It Possible to Produce Butter in from 5 to 15 Minutes

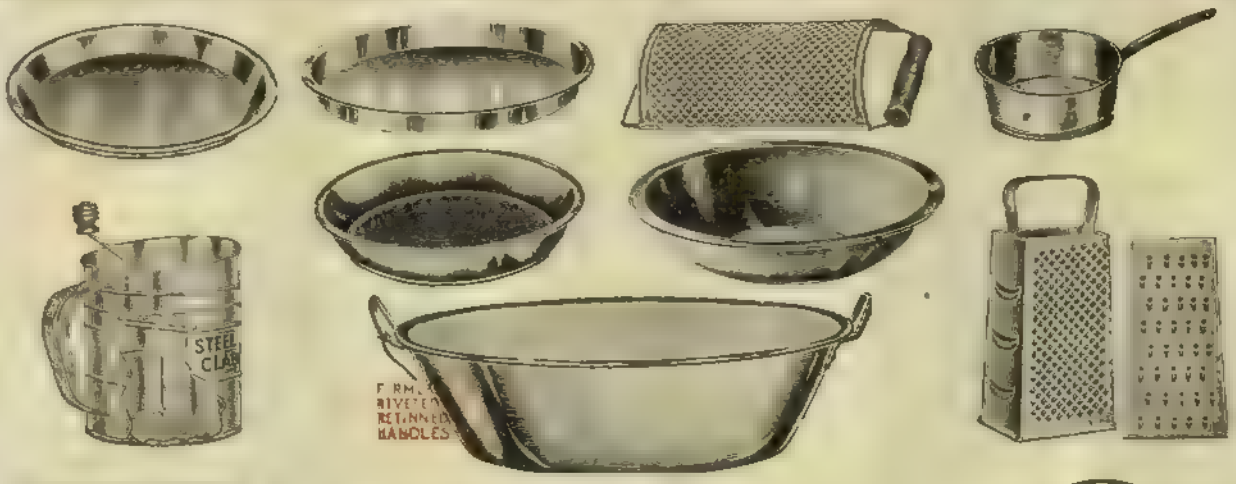
T7294-97

Dark blue granite [illegible] bodies, [illegible] tinned other parts [illegible] maple dashers, [illegible] steel dash rods, [illegible] screw cover, [illegible] wood knobs, [illegible] stamped with churn. T7292 [illegible] T7297 [illegible] crate.

T7292 [illegible] Each, $3.10 — T7293 [illegible] Each, $3.85 — T7294 [illegible] Each, $4.85 — T7296 [illegible] Each, $5.85 — T7297 [illegible] Each, $10.00

VARIETY TINWARE ASSORTMENT

An assortment that includes leading sellers, priced to permit you to use most of the items as leaders. Write your order NOW



A BIG VALUE ASSORTMENT

This assortment consists of the most staple everyday sellers from our regular line of stamped and pieced tin and japanned ware. Note the schedule of retail prices which insures you a handsome profit.

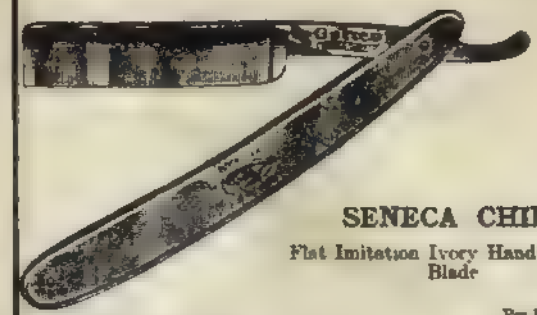
Quantity	Item	Retail Each	Total Retail
1 Doz.	T14-M Sauce Pan	$0.20	$2.40
1	T Wash Basin	.20	2.40
1	T Pie	.10	1.20
1	T Pie	.10	1.20
1	T Dish Pans	.15	1.80
1	T Dish Pans	.20	2.40
1	T Dish Pans	.30	3.60
1	T Dish Pans	.10	1.20
1	T5020 Pudding Pans	.20	2.40
1	T Pudding Pans	.25	3.00
1	T Pans	.14	1.68
1	T Pans	.19	2.28
1	T Pans	.10	1.20
1	T Mixing Pan	.15	1.80
1	T Mixing Cake Pan	.10	1.20
1	T Pie	.10	1.20
1	T Pie	.10	1.20
1	T Grease Cups	.05	.60
1	T Water Pail	.25	3.00
1	T Pail	.20	2.40
1	T Pail	.15	1.80
1	T Pail	.25	3.00
1	T Pail	.15	1.80
1	T Pail	.40	4.80
1	T Dust Pan	.05	.60
1	T Flour Sifter	.25	3.00
1	T Funnel	.25	3.00
1	T Jelly Strainer	.15	1.80
1	T Milk Pail	.20	2.40
1	T Milk Pail	.15	1.80
1	T Cake Tin	.20	2.40
1	T Cake Tin	.20	2.40
		Total	$112.20

Total Weight about ..... Doz. Total $80.00

$1.20

Your Cost $80.00 Retails $112.20 Your Profit $32.20

RAZORS

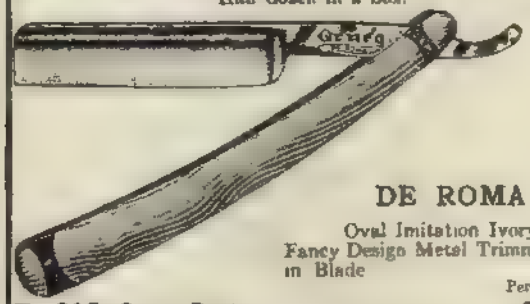


SENECA CHIEF

Flat Imitation Ivory Handle. ⅝-in. Blade

Per Dozen

No. 607—Square Point $40.00
No. 608—Round Point 40.00
Half dozen in a box.



DE ROMA

Oval Imitation Ivory Handle Fancy Design Metal Trimmings. ⅝-in Blade

Per Dozen

No. 612—Square Point $48.00
No. 616—Round Point 48.00
Half dozen in a box

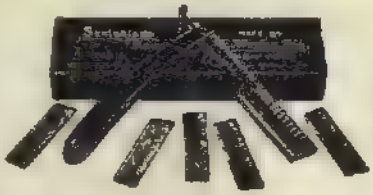
ARMY AND NAVY

Fancy Imitation Ivory Handle Gun Metal Finish Anti-rust Back and Tang. ⅝-in. Blade.

Per Dozen

No. 613—Square Point $48.00
Half dozen in a box.

WECK'S SEXTOBLADE



May be Used Like a Plain Razor or as a "Safety." Complete, with 6 Keenly Edged, Reversible Blades and Safety Guard.

Per Dozen

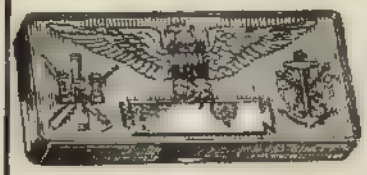
No. A—One in a Plain Box. $40.00

Blades

Per Doz. Sets

Packages of 3 . . . . . $4.50

SAFETY RAZORS



No. 517 Closed.

GILLETTE U. S. SERVICE SET

Metal Case, Built to Withstand Roughest Handling, into the Lid of which Fits Snugly an Indestructible Mirror. Thumb Tacks for Securing Mirror for Use Regardless of Surroundings are Included. No Stropping. No Honing—Always Sanitary. No Cutting or Scraping of Skin—No Risk of Infection. **Fits the Kit or the Pocket.**

No. 517 Open.

Per Set

No. 517—Metal Case $64.00

No. 617K—Khaki Case $64.00

GILLETTE OFFICERS' SHAVING SET

Consists of Bulldog Triple Silver Plated Razor, Shaving Stick and Shaving Brush in Triple Silver Plated Holders, Indestructible Metal Mirror 3¼ x 3¼ Ins. (Fitted into Pocket in Lid), 12 Gillette Blades (24 Shaving Edges).

Per Set

No. 17—Seal Grain Leather Case . . $13.00

EAGLE "ABOVE 'EM ALL"

Consists of Frame, Handle Stropper, Six Blades, Nickeled Collapsible Imitation Badger Shaving Brush and a Nickeled Soap Case with a Stick of Williams Shaving Soap, all Contained in a Neat Leatherette Case, Suitable for Traveling Purposes.

Per Dozen

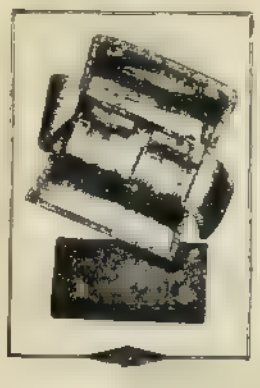
No. 65 . $20.00

Per Set

No. 65B—Sets of Six Blades $1.40

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

GILLETTE SAFETY RAZORS



POCKET EDITION

Triple Silver Plated Razor and Blade Box with Indestructible Metal Mirror in Leather Case with 12 Double Edge Gillette Blades

Each

No. 20 ..... **$7.50**

MILADY DECOLLETE

SPECIAL SET FOR LADIES

A Keen Edge Underarm White and Smooth 14k Gold Plated Razor and Blade Box French Ivory Case Lined with Old Rose Velvet and Satin With 12 Double Edge Gillette Blades

Each

No. 625 ..... **$7.50**

Mail Order Blanks and Envelopes

We will gladly mail a supply on request. Let us hear from you.

RECOIL PADS

No. 3

No. 3—Akron. Fine soft leather, to lace, with corrugated rubber pad made to fit. 12, 16 and 20 gauge shotgun. Weight, 3 lbs.....Per dozen $36.00

No. 35—Norka. Same style as No. 3 but with cheaper leather covering .....Per dozen $30.00

SILVERS PATTERN

No. 26—Silvers Pattern. Guttapercha back with red rubber. Medium size, 12 gauge. Small size, 16 and 20 gauge. One in a carton. Weight, 10 ozs.....Each $4.00

ANTI-FLINCH

A perfect shock absorber.

No. 27—Anti-Flinch. Gutta percha back with red rubber. Hollow sections in rubber make a perfect shock absorber. One in a box. Weight, 10 ozs.....Each $4.50

To fitting Nos. 26 or 27 recoil pads to any gauge shot gun .....Each $5.00

DUCK STRAPS

No. 213—Plain rawhide. Weight per doz, 2 lbs..Per dozen $18.00

No. 101—Double leather center, sewed. With rawhide ends. Length, 30¼ inches. Width, 2½ inches. Weight per dozen, 6½ lbs.....Per dozen $20.00

DECOY DUCKS
STANDARD MODEL

Standard Model—Solid white cedar decoys. First quality glass eyes. Well painted. Canvas back, mallard, sprig, widgeon, blue-bill and teal. One dozen in a crate—8 male and 4 female. Crates will not be broken. Not less than one dozen of a specie. Weight per crate, about 45 lbs .....Per dozen $18.00

HOLLOW CANVAS
COLLAPSIBLE

Pneumatic and collapsible; hand painted and true to life. The waterproofing used will not permit the canvas to break or crack. Made in both male and female. Mallards, canvas back, sprig, teal and widgeon. Weight, about 4 ozs each.

No. 1 .....Per dozen $18.00

DUCK CALLS

Cocobolo wood. Nickel tip.

No.	760
Length, inch	4½
Weight, lb	1
Per dozen	$8.00

One dozen in box.

ALLENS

Wood shell. Metal ends.

No.	7
Length, inch	6¼
Weight, lbs	1¼
Per dozen	$12.00

One-half dozen in box.

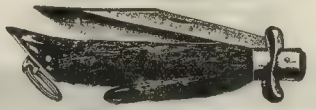
BROADBILL

Will successfully imitate all wild ducks, from teal to mallard. Removable reed.

No.	270
Per dozen	$10.00

One in box.

HUNTING KNIVES



DEER FOOT

Per Dozen

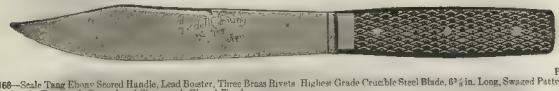
No. 6029—5¼ in. Genuine Deer Foot Handle, Brass Lined, Nickel Silver Guard Bolster, Plate and Chain Attachment; Extra Quality Crucible Steel Blade, Saber Pattern, Clip Point, Full Polished $33 60

UNIVERSAL

Per Dozen

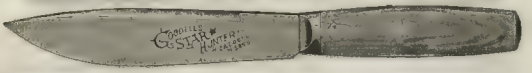
No. 3207—Shaped Ebony Wood Handle, Three Rivets; Highest Grade Crucible Steel Blade, 5 in. Long, Polished and Etched $15 00

Half Dozen in a Box



Per Dozen

No. 2168—Scale Tang Ebony Stored Handle, Lead Bolster, Three Brass Rivets, Highest Grade Crucible Steel Blade, 6¾ in. Long, Swaged Pattern, Uniformly Tempered, Ground and Sharpened, Glazed Finish $9 00



Per Dozen

No. 168—Highly Finished Rosewood Handle, Fancy Lead Bolster, Highest Grade Crucible Steel Blade, 6 in. Long, Swaged Pattern, Highly Tempered, Ground and Sharpened, Glazed Finish and Stamped $8 00

Each Knife Complete with Sheat

No. 0020—Genuine Stag Handle, Nickel Silver Guard, Four Brass Rivets, Highest Grade Crucible Steel Blade, Clip Point, Glazed Finish.

Length of Blade, In.	6	7
Per Dozen	$18 00	21 00

All above ½ dozen in a box.

LANTERNS
COLD BLAST TUBULAR

Air is drawn through the ventilators above the rain shed and passes down the tubes cold, without coming in contact with the heated air coming up from the globe. It is then drawn down to the burner and through a perforated plate to the flame. Wind proof.

DIETZ D-LITE

Bright tin. Large tin fount. Easy lift. No. 282 wing lock steel burner. 1-inch wick. 10 C. P. light. Wire guards. Dome fount with brass filler. Uses our No. 258 Nustyle globe.

	Large Fount
No.	20L
Height, inch	13¼
Burns hours	40
Dozen in case	⅛
Net weight, dozen, lbs	33
Shipping weight, case, lbs	28
Per dozen	$23.75

DIETZ D-LITE

As above with standard fount.

	Tin Fount
No.	2 D
Height, inch	13¼
Burns hours	20
Dozen in case	⅛
Net weight per dozen, lbs.	29
Shipping weight per case, lbs	25
Per dozen	$21.60

DIETZ LITTLE WIZARD

Bright tin. No. 211 wing lock steel burner. ⅝-inch wick. 6 C. P. light. Wire guards. Dome fount with brass filler. Uses our No. 273 Nustyle globe.

No.	LW
Height, inch	11½
Burns hours	18
Dozen in case	1
Net weight per dozen, lbs.	21½
Shipping weight per case, lbs	33
Per dozen	$17.50

DIETZ BLIZZARD

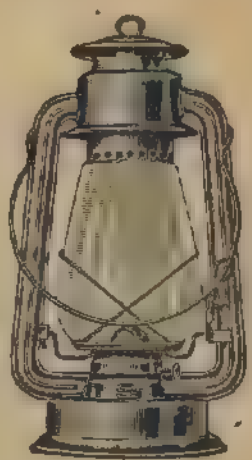
Bright tin. Lift inside of frame. No. 272 wing lock steel burner. 10 C. P. light. 1-inch wick. Wire guards. Dome fount with brass filler. Uses our Nos. 2, 22 or 02 C. B. globes.

No.	2
Height, inch	14¾
Burns hours	20
Dozen in case	½
Net weight dozen, lbs	30
Shipping weight case, lbs	26
Per dozen	$21 60

DIETZ JUNIOR

A duplicate of No. 2 Blizzard, but smaller. 6 C. P. light. ⅝-inch wick. Uses our Nos. 00 and 01 globes and No. 201 wing lock burner.

No.	Jr
Height, inch	12
Burns hours	13
Dozen in case	1
Net weight dozen, lbs	21
Shipping weight dozen, lbs	31
Per dozen	$15.80



STANDARD

Bright tin. 1-inch steel burner. 1-inch wick. Steel filler. Bottom lift, cross guards. Uses our Nos. 2, 22 or 02 C. B globe.

No.	180
Height, inch	15
Burns hours	20
Dozen in carton	½
Net weight dozen, lbs	28
Shipping weight per carton, lbs	32
Per dozen	$17.40

LANTERNS

HOT BLAST

Air is drawn over the top of the globe into the tubes and from thence down to the burner. It comes in contact with the heat of the globe and is therefore hot when entering the tubes.

DIETZ MONARCH

Bright tin. Positive locking lift. No. 411 wing lock steel burner. ⅝-inch wick. 4 C. P. light. Dome fount with brass oil filler. Uses our Nos. 0, 20, R0 or R 10 globes.

No.	1M
Height, inch	13½
Burns hours	18
Dozen in case	1
Net weight, dozen, lbs	23
Shipping weight, case, lbs	19
Per dozen	$14.00

STANDARD

Bright tin. No. 1 steel burner. ⅝-inch wick. No. 0 globe. Steel filler. Upward lever. Bottom lift, cross guards. No. 140 uses our No. 0 globe. No. 140R uses our No. R0 globe.

Nos.	Clear Globe 140	Ruby Globe 140 R
Height, inch	14	14
Burns hours	18	18
Dozen in carton	1	1
Net weight dozen, lbs	25	25
Shipping weight carton, lbs	14	14
Per dozen	$12 30	18.00

DIETZ BUCKEYE DASH

Black enamel finish. Corrugated bright tin reflector. Magnifying bullseye lens in front of flame. Positive locking lift. No. 411 wing lock cone burner. 10 C. P. light. ⅝-inch wick. Dome fount. Brass oil filler. Uses No. 0 globe.

No.	1BD
Height, inch	13¼
Burns hours	19
Dozen in case	½
Net weight per dozen, lbs	28
Shipping weight per case, lbs	26
Per dozen	$21.60

DIETZ JUNIOR WAGON

COLD BLAST

Tin, japanned black. Dome top founts Bullseye lens attached to frame in front of flame. Ruby rear signal. Corrugated tin reflector. Bracket to fasten on left side of vehicle. Can be used as hand lantern. No. 201 wing lock steel burner, carrying ⅝-inch wick. "Junior" globe No 00. Inside bottom globe lift. 10 C. P. light.

No.	JW
Height, inch	12
Burns hours	13
Dozen in case	½
Net weight per dozen, lbs	30
Shipping weight per case, lbs	29
Per dozen	$27.50

DIETZ NEW EUREKA SIDE OR DRIVING

Black enameled steel. 3-inch door lens. 2¼-inch rear ruby lens. 1½-inch side green lens. Side attachment. No. 561 steel burner. ⅝-inch wick.

No.	ED
Height, inch	7½
Burns hours	10
Dozen in case	1
Net weight per dozen, lbs	19
Shipping weight per dozen, lbs	27
Per dozen	$28 00

DIETZ ACME INSPECTOR

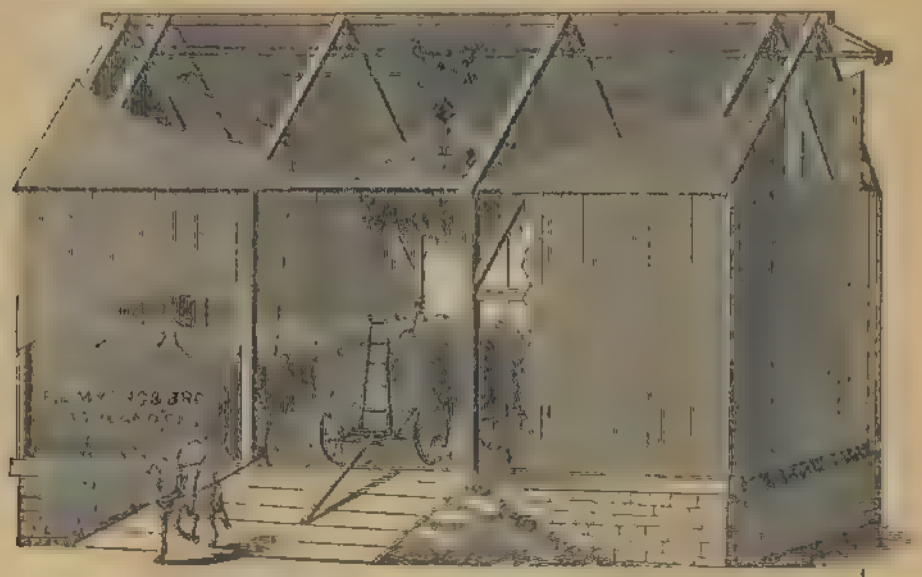
HOT BLAST

Heavy plain tin with bright hood. Deep inset fount bottoms. Flat top. Large filler cap and screw. Square tubes. Wide band tin handle with embossed hand grip. Spring wire latch holds globe top. Eyelet for hanging. 5-inch silvered reflector. No. 0 globe. No. 551 steel burner, carrying a ⅝-inch wick. Used by car inspectors and others who need concentrated white light. 20 C. P. light.

No.	1A
Height, inch	15½
Burns hours	20
Dozen in case	½
Net weight, dozen, lbs	36
Shipping weight, case, lbs	37
Per dozen	$38.50

DIRECTIONS FOR ERECTING HAY CARRIERS AND FIXTURES

Illustrating How Track Should Be Placed in Barn, Also Rope Stop, and How Pulley Should Be Placed



Place pulley to draw the carrier back into the mow directly under and in line with track, and not as seen in cut. Do not allow steel track hanging hooks to project below casting under track through which they are screwed, as they will interfere with the carrier. The top illustration shows how track should be put up and how rope is tied from one rafter to the other close under the track to make stop for carrier at end of barn. Also shows how rafter brackets are placed.

DIRECTIONS FOR ERECTING PATENT STEEL TRACK

Scaffold by placing rope from rafter to rafter, about 6 feet from ridge pole or peak and about 10 feet apart. Place ladder across ropes with board to stand on. Nail one rafter bracket at each end of barn, then draw a line from one end to the other and stretch tight. All rafter brackets should be raised even with this line. The track can then be put up in sections.

MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARNS

For a 40-foot barn—One hay unloader; 36 feet steel track; 19 hanging hooks; 19 rafter brackets; 5 knot passing pulleys; 1 fork or 3 slings; 6 floor hooks, 110 feet ¾-inch Manila rope, 50 feet ⅜-inch check rope, 40 feet ⅜ inch reverse rope.

For a 50-foot barn—One hay unloader, 48 feet steel track; 25 hanging hooks; 25 rafter brackets; 5 knot passing pulleys; 1 fork or 3 slings; 6 floor hooks, 170 feet ¾-inch Manila rope, 55 feet ⅜ inch check rope, 50 feet ⅜-inch reverse rope.

For a 60-foot barn—One hay unloader, 54 feet steel track; 28 hanging hooks; 28 rafter brackets; 5 knot passing pulleys; 1 fork or 3 slings; 6 floor hooks, 190 feet ¾-inch Manila rope; 60 feet ⅜ inch check rope; 60 feet ⅜ inch reverse rope.

For a 70-foot barn—Hay unloader, 66 feet of track, 34 hanging hooks, 3½ lbs. bracket nails, 5 knot passing pulleys, 1 fork, or 3 slings, 6 floor hooks, 190 feet ¾-inch draft rope; 70 feet ⅜-inch check rope, 70 feet ⅜ inch reverse rope.

For an 80-foot barn—Hay unloader, 78 feet of track, 40 hanging hooks, 40 rafter brackets, 4 lbs. bracket nails, 5 knot passing pulleys; 1 fork, or 3 slings, 6 floor hooks, 210 feet ¾-inch draft rope, 80 feet ⅜-inch check rope, 80 feet ⅜ inch reverse rope.

Different lengths of barns will use track, hanging hooks and ropes in same ratio as above.

If required to take hay in at one end of barn, and have rope pass down at far end to horse, same amount of draft rope. If draft rope be returned to same end of barn and then down, this requires about one fourth more draft rope.

HOW TO REVERSE CARRIER

Set fork in hay. Tie ends of rope together to which horse and weight are attached. Pull on small rope until knot comes to the floor, then untie ropes. Fasten weight G on small rope, change pulley A to floor hook H. This reverses carrier for opposite direction without leaving the floor or climbing up. Use all knot passing pulleys. For taking in hay at end of barn use V-shaped brace for track support as illustrated.

WHEELBARROW GRASS SEEDERS
THOMPSONS ROYAL CHAIN FEED

An accurate and economical machine for sowing clover, timothy, alfalfa and other small seeds broadcast. Run easily and sow evenly in windy weather.

The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to date principles. It has a strong steel wheel 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub, having a lever and working correspondingly easy. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. This seeder does not injure or bunch the seed, but evenly distributes it the full length of the hopper. We realize that we have competition in other kinds of seeders, but we believe that for a good-looking, nicely-finished, first-class wheelbarrow grass seeder, our machine is far ahead of them all.

Nos.	11	11
Size, feet	14	16
Weight, lbs	50	55

HAND CORN AND POTATO PLANTERS

NO. 1 TRIUMPH

NO. 2 TRIUMPH

SEGMENT

EUREKA

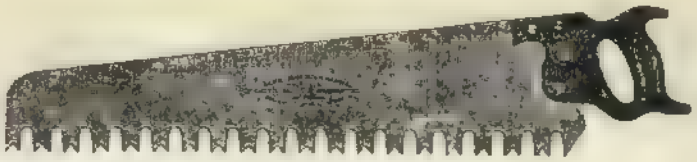
No. 1 Triumph is especially adapted to planting corn while the No. 2 Triumph will plant corn and pumpkin seeds. Built very strong with smooth, positive-working steel stampings. Do not crack the corn.

Segment Automatic Corn and Pumpkin Seed Planters work very rapid and perfect. Stamped steel slide, galvanized iron hopper and hardwood handles. Adjustable for number of kernels running in segmental steel track.

The Eureka Potato Planter is all steel. Equipped with an adjustable depth gauge. The jaws lock automatically without the aid of a spring when withdrawn from the soil.

Nos.	1	2	1	Eureka
Description	Triumph	Triumph	Segment	Potato
Weight per dozen, lbs	72	76	62	60

HAND ICE SAWS

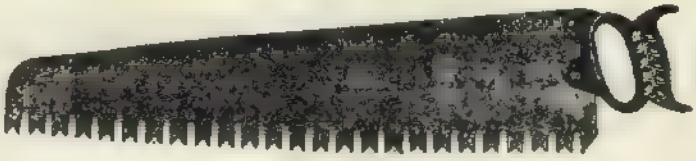


DISSTON

POLISHED EDGE BEECH HANDLE, LUMBERMEN'S TOOTH

No. 70—Length, Inches	24	26	28	30
Weight, Per Dozen, Lbs.	34	38	42	47
Per Dozen	$16.00	17.00	18.00	19.00
	$17.00	18.70	19.80	20.90

Sixth dozen in a box.

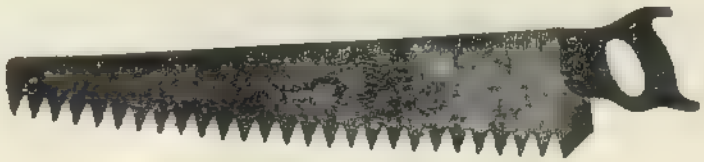


DISSTON

MALLEABLE IRON HANDLE, LUMBERMEN'S TOOTH

No. 72—Length, Inches	24	26	28	30
Weight, Per Dozen, Lbs.	42	46	50	54½
Per Dozen	$19 00	20 00	21 00	22 00
	$20.90	22.00	23.10	24.20

Sixth dozen in a box.

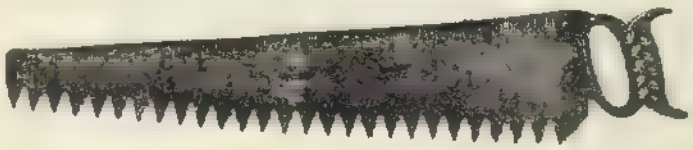


KEYSTONE

PLAIN BEECH HANDLE PLAIN TOOTH

No. 74—Length, Inches	24	26	28	30
Weight, Per Dozen, Inches	19½	23	27	32
Per Dozen	$11 90	12.50	13.40	14 40
	$23.80	25.00	26.80	28.80

Sixth dozen in a box.



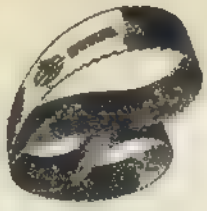
KEYSTONE

ROUND CAST IRON HANDLE, PLAIN TOOTH

No. 76—Length, Inches	24	26	28	30
Weight, Per Dozen, Lbs.	28	32	36	41
Per Dozen	$13.00	14.50	15 40	16 40
	$29.30	31.55	32.35	34.45

Sixth dozen in a box.

BAND SAWS



Prices on Request

Set, Sharpened, and Joined. Complete.

Inches Wide.	Gauge.	Per Foot.	Inches wide	Gauge.	Per Foot.
3	18 to 20	$1.20	8	14 to 16	[illegible].20
3½	18 to 20	1 40	9	14 to 16	3.60
4	17 to 19	1.60	10	14 to 16	4.00
4½	17 to 19	1.80	11	14 to 16	4.50
5	17 to 19	2.00	12	13 to 15	5.00
5½	17 to 19	2 20	13	13 to 15	6.00
6	17 to 19	2.40	14	13 to 15	7.00
7	16 to 18	2.80	15	12 to 14	8.50

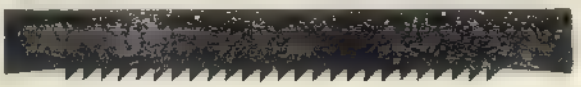
Silver Solder for Brazing Band Saws, $1 00 Net Per Ounce. When Ordering Band Saws, State Whether Right or Left Hand, Gauge or Thickness, Space, Depth and Shape of Teeth, Straight or Crowning Back. Tooth Blanks are Same Price as Finished Saws. Band Saw Blanks, Bright, of Any Width, Furnished to Order, but not Warranted

Set and Filed. Not Joined.

Inches Wide.	Gauge	Per Foot.	Net Prices for Joining, Each.
⅛	21 or 22	$0 16	$0 20
¼	21 or 22	17	20
⅜	21 or 22	18	20
½	21 or 22	20	25
⅝	20 or 21	22	25
¾	20 or 2.	25	.25
1	20 or 2.	.27	.30
1¼	20	29	.30
1¼	19 or 20	.31	.30
1½	19 or 20	.35	.35
1⅝	19 or 20	38	35
1½	19	41	35

Band Saws for Metal Add 50 Per Cent. to Above List

MILL SAWS



No. 1—Disston's Extra Tempered Cast Steel Patent Ground. 8 Inches Wide. Warranted

Gauge No.	5	6	7	8	9	10
Per Foot	$3 00	2.70	2.40	2.20	2 00	1.80
	$6.00	5.40	4.80	4.40	4.00	3.60

Loose

When Ordering Give Length, Width and Thickness or Gauge of Saw, Also Space from Point to Point of Teeth, and Distance from End of Saw to Point of First Tooth

POND ICE SAWS

Without Handles or Tillers.

Tapered. Set and Sharpened. Warranted

No. 810—8 Inches at Butt 6 Inches at Point. No. 10 Gauge.

Length, Ft.	3	3½	4	4½	5	5½	6
Each	$3 00	3 50	4 00	4 50	5.00	5 50	6.00
	$6.00	7.00	8.00	9.00	10.00	11.00	12.00

No. 811—8 Inches at Butt 6 Inches at Point No. 11 Gauge

Length, Ft	3	3½	4	4½	5	5½	6
Each	$2.80	3 25	3.80	4 25	4 70	5 15	5.70
	$5.60	6.50	7.60	8.50	9.40	10.30	11.40

No. 710—7 Inches at Butt 5 Inches at Point No. 10 Gauge

Length, Ft.	3	3½	4	4½	5	5½	6
Each	$2 70	3 15	3 60	4 05	4 50	4 95	5 40
	$5.40	6.30	7.20	8.10	9.00	9.90	.80

No. 711 7 Inches at Butt 5 Inches at Point No. 11 Gauge

Length, Ft	3	3½	4	4½	5	5½	6
Each	$2 55	2 95	3 40	3 85	4 25	4 70	5.10
	$5.10	5.90	6.80	7.70	8.50	9.40	10.20

Loose

Each

No. T—Tiller or Handles Only $2.40

Loose.

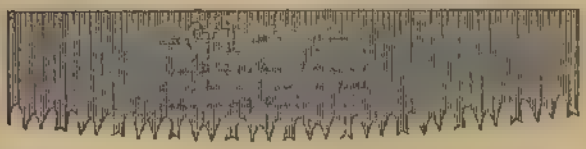
CROSS-CUT SAWS

WITHOUT HANDLES

If handles are wanted, specify separately for them.

Highest grade crucible steel. Ground gradually thinner from teeth to back. Teeth extra filed and carefully set, ready for use. Papered and stripped.

CHAMPION TOOTH, 14X16 GAUGE



Length, feet	5	5½	6	6½	7
Width at center, inch	7¼	7¼	7½	7¾	8
Weight each, lbs	6	7¼	7½	8½	10
Each	$6.75	6.75	7.00	7.50	8 00

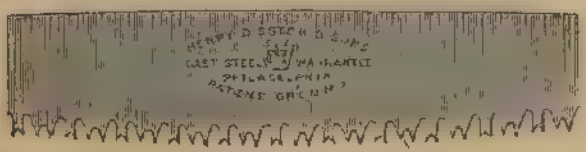
PERFORMED LANCE TOOTH, 14X18 GAUGE

Length, feet	4½	5	5½	6	6½	7
Width at center, inch	7¼	7¼	7¼	7½	8	9
Weight each, lbs	6	6½	7	7½	8	9
Each	$7.00	7.50	8.00	8.50	9.00	10.00

DISSTONS

High grade crucible steel, polished and etched. Ground gradually thinner from tooth to back. Teeth filed and set ready for use.

CHAMPION TOOTH, 14X16 GAUGE



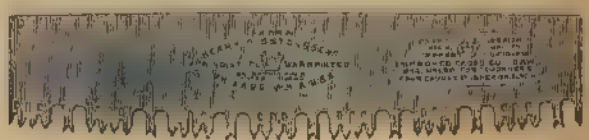
Length, feet	4½	5	5½	6	6½	7
Width at center, inch	6½	7	7¼	7½	7¾	8
Weight each, lbs	4½	6½	7	7½	8½	9
Each	$4.75	5.25	5.75	6.25	6.75	7.50

Loose.

DISSTONS

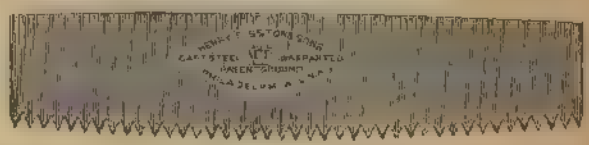
High grade crucible steel, polished and etched. Ground gradually thinner from tooth to back. Teeth filed and set ready for use.

PERFORATED LANCE TOOTH, 14X16 GAUGE



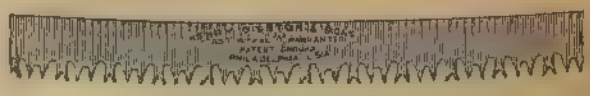
Length, feet	4½	5	5½	6	6½	7
Width at center, inch	5¾	6	6	6½	6¾	7
Weight each, lbs	4¾	5	5½	7	7½	9
Each	$5.50	6 75	7.50	8.00	8.75	9.50

TENNON TOOTH 14X16 GAUGE



Length, feet	4½	5	5½	6
Width at center, inch	6½	6¾	7	7¼
Weight each, lbs	4	5¼	7	8
Each	$4.75	5.75	5 75	6.25

TRIUMPH CHAMPION 14 GAUGE



Ground two gauges thin on back.

Length, feet	5	5½	6	6½
Width at center, inch	6½	6¾	7	
Weight each, lbs	4	4¼	4½	5
Each	$3.50	3.75	4.00	4.25

FALCON FELLING

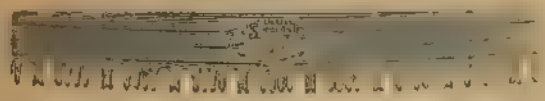
Extra cast steel. Tooth edge 12 gauge, back edge 17 gauge.

Length, feet	6	6½	7
Weight each, lbs	7¾	8¾	10
Each	$13.25	15.00	16.50

SIMONDS CROSS-CUT SAWS
WITHOUT HANDLES

High grade crucible steel. Crescent ground, polished and etched. Teeth filed and set ready for use.

ROYAL CHINOOK. BUCKING PATTERN



No. 503—13 gauge on teeth, 18 gauge on back.

Length, feet	5½	6	6½	7	7½
Width at center, inch	7	7	7	7¼	7¼
Weight each, lbs.	8½	8½	9½	10½	11½
Each	$9.02	10.16	11.43	12.70	13 97

ROYAL CHINOOK, FALLING PATTERN

No. 513—13 gauge on teeth, 17 gauge on back

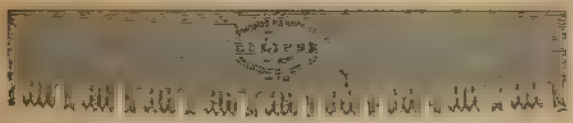
Length, feet	7	7½
Width at center, inch	5⅝	5¾
Weight each, lbs.	8	9
Each	$12.70	13.97

CHINOOK

No. 520—13 gauge on teeth, 17 gauge on back.

Length, feet	5	5½	6	6½	7	7½
Width at center, inch	6	6⅛	6¾	7	7¼	7½
Weight each, lbs.	7½	8	8¾	10	10½	12½
Each	$5.46	6 10	6 86	7.75	8.64	9.53

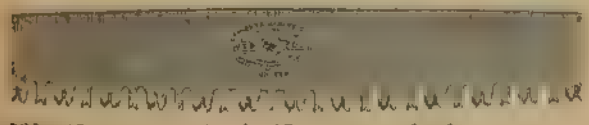
ECLIPSE



No. 521—13 gauge on teeth, 18 gauge on back

Length, feet	5½	6	6½	7
Width at center, inch	6½	6¾	6⅞	7
Weight each, lbs.	8½	10	10	11
Each	$6 10	6 86	7 75	8.64

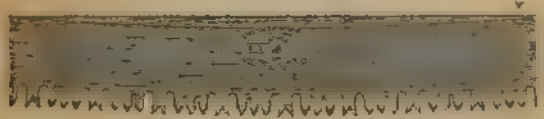
WEBFOOT



No. 530—13 gauge on teeth, 17 gauge on back.

Length, feet	5½	6	6½	7
Width at center, inch	6¾	6¾	7	7⅛
Weight each, lbs.	8½	9	10	11½
Each	$5.25	5.72	6 20	6.67

HOO HOO SAWS



No. 522—13 gauge on teeth, 17 gauge on back. Average weight per foot, 1¼ lbs.

Length, feet	6	6½	7
Width at center, inch	6½	6¾	7
Weight each, lbs.	9	10	11
Each	$6 86	7 75	8.64

Loose.

CROSS-CUT SAW HANDLES
SIMONDS R. G.
REVERSIBLE

No. R.G.

Hardwood handle. Malleable iron casting, painted blue. Will cut at any angle.

No. R. G. Simonds Reversible, 3 positions. Length of handle, 14 inches. Diameter, 1¼ inches. Weight per pair, 3½ lbs.

Per pair $2 00

No. 113

Double grip hardwood handle. Heavy malleable iron castings.

No. 113 Reversible—Length of handle, 14½ inches. Diameter, 1⅞ inches. Weight per pair, 2½ lbs.

Per pair $1.50

No. 112

Double grip hardwood handle. Plain malleable iron castings.

No. 112—Length of handle, 14½ inches. Diameter, 1⅞ inches. Weight per pair, 2½ lbs.

Per pair $1.25

No. 104

No. 104—Oregon Climax, 14 inches long, 1⅝ inches diameter at thickest part. Heavy gray iron castings, malleable iron bolt and nut.

Weight, lbs 2

Per pair $1.10

No. 107

Hardwood handle. Malleable iron. Round washer. Loop rod and inside nut.

No. 107 Loop Handle—Length of handle, 10⅛ inches. Diameter, 1⅜ inches. Weight per pair, 1½ lbs.

Per pair $0.75

No. 102½

No. 102½—Climax. Reversible. Length of handle, 13½ inches.

Per pair $0 80

No. 114

A complete and perfect handle with guard. Can be used at any angle.

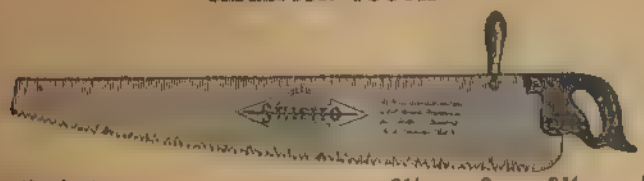
No. 114—Universal. 14 inches long, 1¼ inches in diameter

Per pair $2 25

ONE-MAN CROSS CUT SAWS

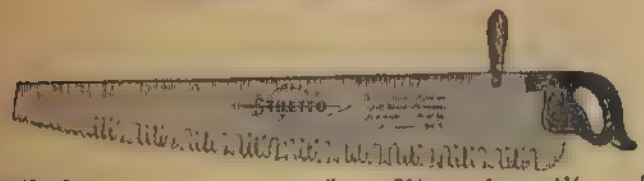
Highest grade crucible steel. Polished and etched. Thin back, carefully ground. Teeth filed and set ready for use. Regular handle, selected beechwood. Plain sides with varnished edges. Supplementary handle, plain beechwood. Polished ferrule.

CHAMPION TOOTH



Length, feet	2½	3	3½	4
Weight each, lbs	2½	3	4	5
Each	$3.00	3.25	4.25	4.75
Length, feet	4½	5	5½	6
Weight each, lbs	6	7	8	9
Each	$5.25	6.00	6.50	7.00

PERFORATED LANCE TOOTH



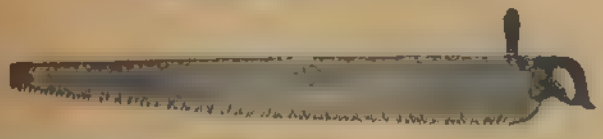
Length, feet	3	3½	4	4½	5
Weight each, lbs	3	4	5	6	7½
Each	$3.75	4.25	5.00	5.75	6.75

SIMONDS
CHINOOK TOOTH

No. 238—Sway Back, Straight Ground

Length, feet	3	3½	4	4½	5
Weight each, lbs	3½	4	5	6	7
Each	$3 98	4 68	5 31	6.01	8 64

PERFORATED LANCE TOOTH



No. 222—Straight Ground

Length, feet	3	3½	4	4½	5
Weight each, lbs	3	3½	4	4½	5
Each	$3.23	3 80	4 30	4 87	5 38

TUTTLE TOOTH

No. 111—Straight Ground

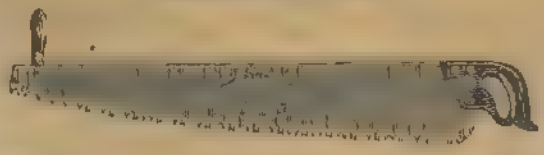
Length, feet	3	3½	4	4½	5
Weight each, lbs	4	4½	5½	6½	7¼
Each	$2 78	3 29	3 73	4.17	4 68

All above, loose.

DISSTONS

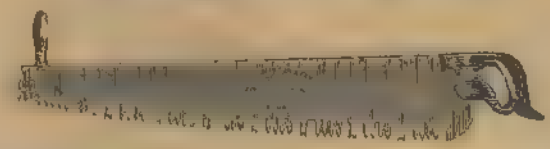
High grade crucible steel. Polished and etched. Thin back. Teeth filed and set ready for use. Selected beechwood handle.

CHAMPION TOOTH



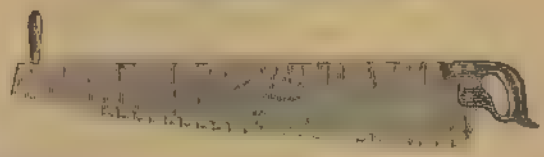
Length, feet	2½	3	3½	4
Weight each, lbs	3	3½	3¾	4¼
Each	$3.00	3.50	4.00	5.00
Length, feet	4½	5	5½	6
Weight each, lbs	6¼	7	9	9½
Each	$5.50	6.00	6.75	7.00

NO. 2 PERFORATED LANCE TOOTH



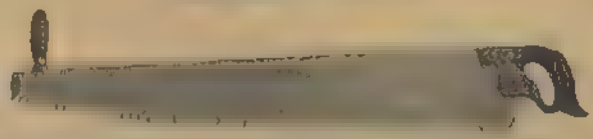
Length, feet	3	3½	4	4½	5	5½
Weight each, lbs	3	4½	5½	6	7	9
Each	$4.00	4.50	5.50	6.00	6.75	7.50

DISSTONS
GREAT AMERICAN TOOTH



Length, feet	2½	3	3½	4	4½	5
Weight each, lbs	3	3½	4	5	6	7½
Each	$3.25	3.75	4.00	5.00	5.75	6.25

KEYSTONE
CHAMPION TOOTH

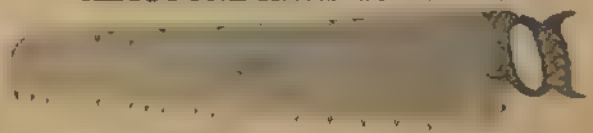


Extra cast steel, beechwood handle, varnished edges. Three brass screws, beechwood supplementary handle.

Length, feet	3	3½	4	4½	5	5½	6
Wgt each, lbs	4	5	6½	7	7½	9	10
Each	$3.00	3.50	4.50	5.00	5.50	6.75	7.00

All above, loose.

KEYSTONE HAND ICE SAWS



Cast steel blade, cast iron handle, plain tooth.

No. 75—Length, inch	24	26	28	30
Weight per dozen, lbs	39	40	41	42
Per dozen	$13 00	14.50	15.40	16.40

One-sixth dozen in a box.

WOOD SAWS

DISSTONS ELECTIC

Maple frame, stained red and varnished. Riveted center brace. Tinned Climax rod. Disstons No. 6, 30-inch common tooth blade, 2⅜ inches wide Filed and set.

No.	40
Weight per dozen, lbs.	60
Per dozen	$30.00

DISSTONS CLIMAX

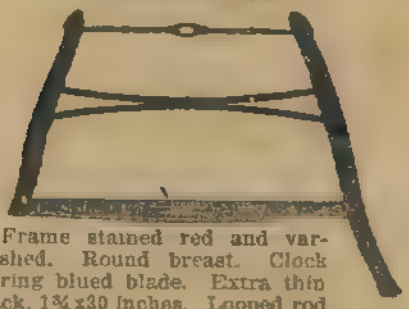
Plain white wood frame. Straight breast. Bright steel blade, improved tooth 2⅜x30 inches. Plain loop rod.

No.	60
Weight per dozen, lbs	60
Per dozen	$35.00

Straw finished lightning tooth blade, 2¼ inches wide. Maple frame natural finish, double rivet brace tinned Jumbo rod. Thin back. Hand filed and set.

No.	170
Weight per dozen, lbs.	60
Per dozen	$36.00

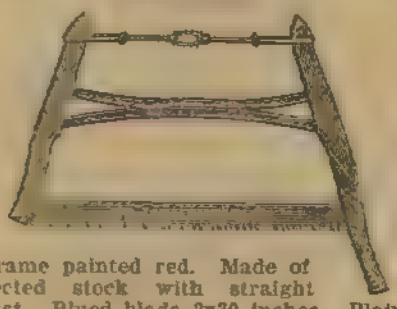
PERFECTION



Frame stained red and varnished. Round breast. Clock spring blued blade. Extra thin back. 1¾x30 inches. Looped rod tinned.

No.	45
Weight per dozen, lbs.	56
Per dozen	$32.00

LIGHTNING



Frame painted red. Made of selected stock with straight breast. Blued blade 2x30 inches. Plain loop rod.

No.	600
Weight per dozen, lbs	56
Per dozen	$24.00

Above, one-half dozen in a wood box.

LIVE OAK

Frame painted red. Made of selected stock with straight breast. Bright steel blade, champion tooth, 2x30 inches. Plain loop rod.

No.	500
Weight per dozen, lbs.	56
Per dozen	$27.50

WOOD FRAMES WITHOUT BLADES

Double braced. Single riveted Select hardwood. Painted red. For 30-inch blade and 22-inch rod.

No. 6 Frames (3 pieces). Weight per dozen sets, 30 lbs....Per dozen $12.00

EXTRA PARTS FOR NO. 6 FRAMES

Short Arms	Per dozen $3.00
Long Arms	" 3.00
Middle Brace	" 3.00

Straight braced. Select hardwood. Not painted. For 30-inch blade and 22-inch rod.

No. 7 Frames (3 pieces). Weight per dozen sets, 32 lbs.....Per dozen $9.00

EXTRA PARTS FOR NO. 7 FRAMES

Short Arms	Per dozen $3.00
Long Arms	" 3.00
Middle Brace	" 3.00

Above, six dozen in case

SAW BUCKS

PERFECTION

Made of carefully selected maple Well seasoned. Natural finish. Malleable iron castings. Center brace covered by wood cylinder. Revolving center.

Height, 30 inches. Width, 15 inches Spread at base, 23 inches.

No. 8—Weight, 35 lbs..Per dozen $15.00

One-half dozen in crate.

SAW RODS

CLIPPER

Extra heavy steel tinned rods. Malleable japanned turnbuckle with wire loops. Extra threaded.

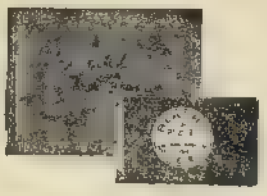
Length, inch	22
Length of loops, inch	4
Weight per dozen, lbs.	10
Per dozen	$3.50

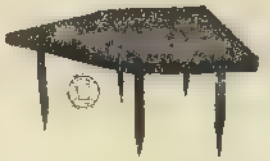
Polished steel rods. Malleable turnbuckles with wire loops.

Length, inch	22
Length of loops, inch	5
Weight per dozen, lbs.	5
Per dozen	$3.00

One dozen in a cardboard box

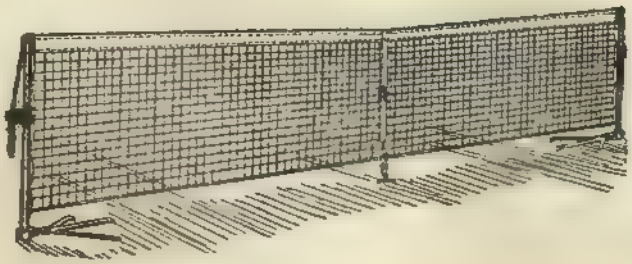
BASE BALL GOODS

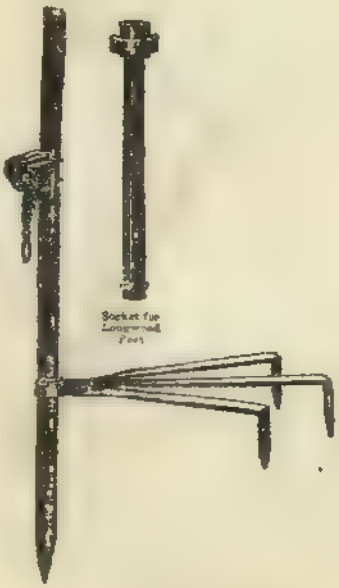




Mail Order Blanks on Request

TENNIS GOODS





DOLLS MADE IN THE U.S.A. DOLLS

The most complete line in the market, including every kind of a doll that you will have calls for. Our vast buying power and leadership in dolls is quickly recognized when you study the following pages. In price, quality, style, size and workmanship these dolls stand out as the best possible values obtainable. **Buy here.**

NOTE: The showing of Real Kid Body Dolls that walk, talk, undress, cry, sing, Babies and Life-like Character Toys, also the excellent variety of exclusive controlled lines

POPULAR PRICED DOLLS

A well assorted showing. Excellently modeled composition heads, painted features, well stuffed bodies, hip and shoulder joints. Note the variety with mohair wigs, composition shoes and stockings. You should have a complete stock on hand. Sales are always good

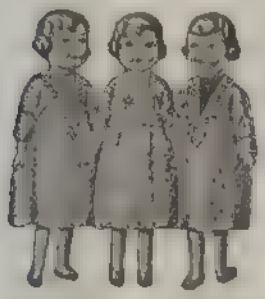
F7200—4 styles, 13 in. flowered lawn and striped percale rompers and dresses with belts and collars. Asstd. 1 doz. in box. Doz **$2.85**

F7202—4 styles, 11½ in. dresses of flowered lawn, solid color linene and novelty material. Asstd. 1 doz. in box. Doz **$3.25**

F7201—3 styles, 11 in., striped percale and lawn dresses, ruche necks. Asstd. 2 doz. in box. . Box **$3.25** (Total $0.30)

F7206—4 styles, 12½ in., asstd. style heads, striped percale gingham pl and white lawn dresses and rompers, ruche necks, shoe feet. Asstd 1 doz. in box. Doz **$4.40**

B7207—8 styles, 13 in., composition hands, dresses of flowered lawn and solid color linene, trimmed with contrasting ribbons, shoe feet. Asstd. 1 doz. in box. Doz **$4.50**



F7208—8 styles, 14 in., composition hands, combination novelty & striped lawn and figured percale dresses, lace trim yoke and belt, bound seams and curls. Asstd. ½ doz. in box. Doz **$4.50**

F7203—2 styles, 13 in., composition hands, asstd. figured percale dresses and rompers, colored braid belts. Asstd. ½ doz. in box Doz **$4.50**

F7212—6 styles, 13 in. composition hands, assorted character head dresses of figured lawn, figured percales, fancy novelty material, lace trim and solid color ruche neck, sash ribbons, shoe feet. Asstd. 1 doz. in box Doz **$4.65**

F7209—3 styles, 13½ in. composition hands, figured & striped percale skirts and waists, white blouses, shoe feet. Asstd ½ doz. in pkg. Doz **$5.00**

F7214—8 styles, 11 in., mohair wigs, fancy stamped cretonne flowered and solid color lawn dresses, ruche trimmed, shoe feet. Asstd. 1 doz. in box Doz. **$5.15**

F7219—3 styles, 12½ in. composition hands, character heads, hair bobbed & curled with ribbon, flowered lawn dresses with color lace and contrasting trim. Asstd. ½ doz. in box Doz **$5.15**

F7215—8 styles, 12½ in. full composition hands, fancy figured lawn dresses with contrasting trims, shoe feet. Asstd. ½ doz. in box Doz **$5.25**

F7217—8 styles. . . . composition hands, striped and checked percale dresses, solid color ruche neck and sash ribbons, shoe feet. Asstd. ½ doz. in box Doz. **$5.25**

F7213—3 styles, 13½ in. composition hands, solid color lawn rompers and dresses, white and striped lace trim. Asstd. ½ doz. in box. Doz **$5.25**

F7216—3 styles, 12½ in. full composition arms, bobbed hair, dressed dresses and rompers of figured lawn, shoe feet. Asstd. 1 doz. in box. Doz **$5.25**

F7220—2 styles, 12½ in., sailor boy and girl, composition hands, girl with blue & white chambray sailor costume, boy in white middy with trimmed with braid. Asstd. ½ doz. in box Doz **$5.25**

F7211—4 styles, 12½ in. composition arms, bobbed hair, dresses of figured lawn, black flowered lawn and solid color percale with fancy trimmings, shoe feet. Asstd. 1 doz. in box Doz **$5.25**

F7210—2 styles, 15 in. full composition arms, compos and dresses of solid color lawns and percales with white cuffs and collars. Asstd. ½ doz. in box . Doz. **$5.40**

F7233—4 styles, 15½ in. composition hands and feet, lawn dresses in pink, blue and white stripes, solid color lawn trimmed sailor suits and pants. Asstd. ½ doz. in pkg Doz **$8.75**

F7235—8 styles, 13½ in., mohair wigs, compos hands, fancy stamped cretonne, lawn and percale dresses, rompers, sailor suits and pants, some trimmed with ribbons and others with braid, shoe feet and slippers, each in box. Asstd. ½ doz. in pkg Doz **$10.00**

POPULAR PRICED DOLLS—Continued

All the following numbers are packed each in box.

STAR VALUE

F7220—3 styles, 14 in. ... composition ... checked ... Each in box. Assted. ... doz. in pkg. Doz. **$8.90**

F7228—3 styles, 15 in. ... composition ... collar and bow ... Each in box. Assted. ... doz. in pkg. Doz. **$9.85**

F7230—3 styles, 15 in. ... composition ... flowered lawn ... checked taffeta ... Each in box. Assted. ... doz. in pkg. Doz. **$9.85**

F7229—3 styles, 15 in. ... composition hands ... checked material ... Each in box. Assted. ... doz. in pkg. Doz. **$9.85**

F7241—3 styles, 14½ in. ... composition hands ... flowered lawn and novelty check ... Each in box. Assted. ... doz. in pkg. Doz. **$9.85**

F7234—3 styles, 14 in., assted. ... Each in box. Assted. ... doz. in pkg. Doz. **$10.25**

F7239—3 styles ... composition ... Each in box. Assted. ... doz. in pkg. Doz. **$10.25**

F7235—3 styles, 15 in. mohair wigs ... gingham and stockinette caps, composition shoes each in box. Assted. ¼ doz. in box..... Doz. **$9.95**

F7240—3 styles, 15 in., composition hands ... crown bonnets to match ... composition shoes each in box. Assted. ¼ doz. in pkg. Doz. **$10.75**

F7242—3 styles, 15½ in. ... composition hands ... plaid and striped ginghams and lawns, in ... solid color trim, hats to ... shoes and stockings ... Each in box. Assted. ... doz. in pkg. Doz. **$10.75**

F7248—3 styles, 15½ in. ... composition ... Each in box. Assted. ... doz. in pkg. Doz. **$12.50**

F7251—3 styles, 15 in. mohair wigs ... in gingham bonnets to match shoes and stockings ... Each in box. Assted. ¼ doz. in pkg. ... Doz. **$13.50**

F7250—3 styles, 15 in. ... composition shoes ... Each in box. Assted. ¼ doz. in pkg. Doz. **$15.00**

F7247—3 styles, ... in., mohair wigs ... collar and belt, ... composition shoes ... Each in box. Assted. ¼ doz. in pkg. Doz. **$15.00**

F7252—3 styles, 18 in., mohair wigs ... Each in box. Assted. ... doz. in pkg. Each **$1.45**

EXCEPTIONAL LEADER DOLL ASSORTMENTS

To Retail at $1.25 to $1.75 Each

Composition heads and hands, painted features, hip and shoulder joints, come with wigs and composition shoes, daintily dressed, neatly finished

F7227—3 styles, 17 in. ... composition ... Each in box. Assted. ... doz. in pkg. Doz. **$9.00**

F7231—3 styles, 14½ in. mohair wigs, ... gingham plaids, plain and lace ... ed collars, ... Each in box. Assted. ... doz. in box. Doz. **$10.50**

F7237—3 styles, 17½ in. ... composition hands, fine ... triple flounce and ... with and solid color ... Each in box. Assted. ... doz. in pkg. Doz. **$13.50**

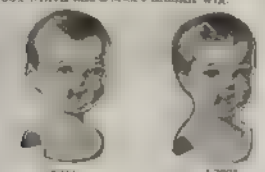
DOLL HEADS

WIGS AND SUNDRIES

A bigger and better variety of doll heads than ever. There is a big business for repairing damaged dolls ... [illegible] ... assorted ... this ... Do ... over ... to ... doll ... use ... figure, it ... [illegible]

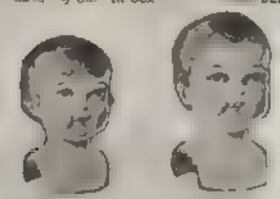
COMPOSITION HEADS —Painted Eyes

Excellent models, assid baby and girl character. Painted features and hair except F7004 which has a short mohair wig.



F7000—Ht. 4½ in., breast ... Assid ... doz. in box ... Doz $2.25

F7001 Ht. ... a ... breast plate 2½x2½ Assid ½ doz. in box ... $2.75



F7002—Ht. 5¼ in., breast plate 2¾x2¾ Assid ½ doz. in box ... Doz. $4.50

F7003—Ht. 6 in., breast plate 3x3½ Assid ½ doz. in box ... Doz. $5.25

F7005 Ht. 8 in., breast plate 3¾x4 Jointed baby model ½ doz. in box ... Doz. $9.50

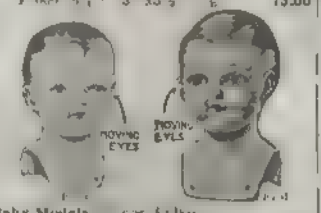
F7004 Ht. 6½ in., short mohair wig, breast plate 2¾x3. ½ doz. in box ... Doz. $10.00

"IDEAL" COMPOSITION HEADS— Moving Eyes

"Ideal" manufacture, eyes guaranteed to work properly. Extra strong, flesh tinted bored holes in breast plate

Girl Models—Carefully packed

	Ht.	Breast plate	Size in ins.	Doz.
[illegible]	[illegible]	[illegible]	[illegible]	$ 8.25
[illegible]	[illegible]	[illegible]	[illegible]	10.25
[illegible]	[illegible]	[illegible]	[illegible]	10.75
[illegible]	[illegible]	[illegible]	[illegible]	13.00



Baby Models [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	$ 9.5
[illegible]	[illegible]	[illegible]	13.50

Short Mohair Wigs—½ doz. in box

	Breast plate	Doz.
[illegible]	2x3 in.	$13.50
[illegible]	3 [illegible] 3¼ in.	16.00
[illegible]	3 [illegible]	19.20

Curly Mohair Wigs—1 in box.

	Ht.	Breast plate		
F7029	[illegible]	[illegible]	Each	$1.75
F7087—6	"	3½x3¾ in.	Each.	$2.00

METAL DOLL HEADS

Practically indestructible. Well modeled characters, excellent flesh tinted painted features and ... breast plate. Will be large demand.

Baby Models—Painted hair

SLEEP EYES.

F7018—Ht. 4¾ in., breast plate 2x1½ in. ½ doz. in box ... Doz. $4.40

F7014—Ht. 5¼ in., breast plate 2½x2½ in. ½ doz. in box ... Doz. $8.35

MOVING EYES—

F7017—Ht. 4½ in., breast plate 2x1¾ in. ½ doz. in box ... Doz. $7.85

F7016—Ht. 5¼ in., breast plate 2½x2½ in. ½ doz. in box ... Doz. $12.00

Girl Models—Mohair wigs

PAINTED EYES—

F7020—Ht. 15½ in., breast plate 2½ in. ... ½ doz. in box ... Doz. $7.50

F7015—Ht. 5¼ in., breast plate 2½x2½ in. ½ doz. in box ... Doz. $12.00

F7021—Ht. 6 in., breast plate 3¼x3¼ in. ½ doz. in box ... Doz.

MOVING EYES—

F7022—Ht. 4½ in., breast plate 2x1¾ in. ... Doz.

F7017—Ht. 5¼ in., breast ... in. 1 in box ... Each $1.35

F7020—Ht. 6 in., breast plate 3¼x3¼ in. 1 in box ... Doz.

DOLLS' CELLULOID TOILET SETS

Leather [illegible] ... [illegible] ... [illegible] ...

WOOD TOYS

A very choice selection of the popular priced numbers, proven sellers and sure profit earners. Prices quoted enable you to show your trade very attractive values. These numbers easily lend themselves to an attractive display. A representative showing will enable you to get your share of this big business. Place your order now.

WOOD AUTO TRUCKS

Finished in red and green, printed words on both sides, well made

Express Auto ... body, finished in red and green, printed "Express" both sides, steering wheel
F2112—1 doz. in box Doz. **$2.25**

Loaded Express Truck ... body red and green finished, printed "Express" sides, ... open spoke wheels, ... loaded with ... sides
F2113—... box Doz. **$4.15**

Loaded Auto Truck ... body open sides, printed in red, high luster varnish finish, black outlined ... open spoke wheels. ... steering wheel, ... stripe ... Each in box
F2115—... box Doz. **$8.90**

WOOD CARTS—With Horses

F2406

F2407

Beautifully painted and stenciled carts in red dapple horse with red trim and harness, varnished open spoke wheels with real hubs, steel wheel inserted under front feet of animal makes easy running

Coal Cart and Horse—13¼x8x5½ ... to body ... wheels
F2408—... doz. in box Doz. **$4.25**

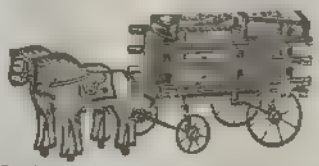
Dump Cart and Horse—12¼x8x5½ ... to body ... wheels
F2409—... doz. in box Doz. **$4.40**

WOOD WAGONS—With Horses

Litho painted wagons and harness with dapple horse ... steel wheel inserted ... feet, axle makes easy ... All ... except Coal ... Dump ... have varnished open spoke wheels with coal hubs.

Loaded Truck With Large Horse—17x5½x6 ... truck ... and ... wheels ... dapple grocery ... Each in box
F2402—¼ doz. in box ... Doz. **$3.95**

Loaded Milk Wagon With Horse—16x5¼x ... 24 and 8½ in. wheels. ... metal milk cans with covers. Each in box
F2406—¼ doz. in pkg ... Doz. **$3.95**

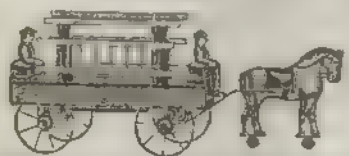


Loaded Truck With Team 18x7x7½ in., high open side truck, driver seat, truck load ... with ... green, ... 2 red ... in ... spoke wheels, ... horses with ... wheels
F2404—1 in box, ... Each. **$1.75**

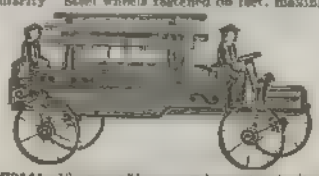
Loaded Milk Wagon With Team ... 2½x8 in body ... with ... and ... spoke wheels, 4 large ... with ... with covers. Large ... wagon ... wheels
F2405—1 in box ... Each. **$2.20**

HOOK AND LADDER TRUCKS

These models are constantly increasing in popularity Steel wheels fastened on feet, making easy running, driver and steersman



F2134 ... on red ... box ... and ... on back ... box, 6½ high, luster ... finish ... wheels, three 7 in. green stained ladders, dapple finish horses with ... and steersman, ½ doz. in pkg. ... Doz. **$8.60**



F2141—1... ... red ... body, ... high luster varnish finish driver and steersman, ... in open spoke wheels, three ... ladders, each in ... in pkg
Doz. **$9.15**

F2139 ... green ... red ... steel ... wheels, black ... printed words on both ... In ... red ... hood, ... and ... in real hub open spoke wheels, five 9 ... in. green stained ... pic finish horses with harness fitted ... fastened on feet ... for easy running driver and steersman. 1 in box, ... Each **$1.75**

HIGH GRADE WOOD TOYS

Strictly first quality material throughout, best finish possible only the best paints used

Crawling Clown—10x3x6½ in., clown crawling on floor, pushing barrel with hands, exceptionally fine action, white painted ... dress, ... red ... hat, ... mouth, ... and arms ... body ... feet ... red, white and black ... 1½ ... box Each **$1.75**

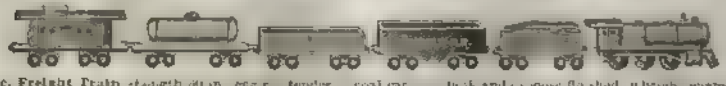
Duckling Trio—Full length 19½ in., ducks 4¾x4 in., yellow painted solid block construction, red painted bill, attached by silk cord with ... disc wheel ... red silk cord with loop grip, also floats in water
F5804—1 in box ... Each. **$1.70**

Walking Bear Trio—Full length 20 in., bears 4¾x8½ in., painted brown, white chest and paws, wheel attached to feet makes bears, walk, natural leather, long silk cord, with loop grip.
F5805—1 in box Each **$2.40**

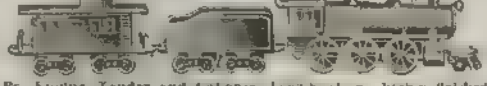
Barn Yard—Outside dimensions ... in., consists of ... red flat board ... with ... posts in ... sections ... 2 pigs, 2 ponies, cow large watering ... with pump, 7½x6x5½ barn with ... trough, barn ... red ... Set **$3.60**

WOOD TRAIN SETS

These excellent models are reliable Built to withstand hard and constant usage All of the latest types and all ... best ... in eight colors, beautifully varnished and ... strongly ... Place your order for these now



8 Pc. Freight Train—Length 60 in., ... tender, ... coal car ... box and ... stock cars, all high enameled colors
F5800—1 set in carton ... Set. **$3.50**



3 Pc. Engine Tender and Caboose—... high, highly finished in gold ... panels.
F5805—1 set in carton ... Set. **$4.25**

2 Pc. Engine and Tender—Length 10 in., ... locomotive ... separate tender with ... and ... stripes, 1" ... on ... wheels, ...
F5804—1 set in carton. ... Set. **$4.25**

4 Pc. Train—... length ... engine, ... tender and caboose, ... red, black striping, hopper car black & gold ...
F5806—1 set in carton ... Set **$5.40**

5 Pc. Train—Length 70½ in., engine, tender and caboose painted red, black striping, hopper car black with white striping, box car orange with black striping.
F5807—1 set in carton ... Set. **$5.50**

8 Pc. Circus Train—Length 86 ... locomotive, ... tender, ... cars with ... passenger ... of ... and ... coach with ... red ... with black striping, ... of train is orange with black striping
F5808—1 set in carton Set. **$8.00**

DOLLS OF ALL KINDS

All staple sellers and novelties that are in big demand the year 'round. In particular we call your attention to the novelties that are having such exceptional sales the country over. Dolls are scarce and hard to get, yet with our five-house needs to buy for one big early contract, a parcel we have goods to sell when other markets are bare. This merchandise is all of strictly standard quality and we guarantee that on ANY general order for dolls we can **save you money.**

"SPLASH ME"

The kids of all ages love George's [illegible] 9½ inches tall, [illegible] in sitting position, painted features tinted bathing suit and shoes. 1 in box

Painted Hair 5 in. [illegible] caps [illegible] in box Doz
F7944—5 in. pastel silk cap $4.50
F7941—7" Plaid taffeta cap 9.50

Mohair Wig—Fashionable veil covered coiffure
F [illegible] Doz $9.00
F [illegible] Each 1.40

"BEACH BELLES"

[illegible] flesh tinted bisque head, painted features, [illegible] bathing suit and shoes.

F7710—With painted hair, plaid taffeta kerchief cap Doz. $8.50
F7711—With mohair wig, veil covered Each $1.25

"WINKIE"

Another new novelty whose vamish expression brings quick sales. Modeled composition bodies, flesh tinted bisque finish, painted features, slippers and socks, tinted negligee, "winking" eye.

F7950

F7950—8 in., painted hair, ½ doz. in box Doz. $9.00
F7951—8 in. mohair wig with veil, 1 in box Each $1.50

"TISS ME"

An appealing little novelty figure, creation of [illegible] flesh tinted bisque [illegible] painted features, coaxing expression, dimpled shoulders, tinted negligee.

Painted Hair — ½ doz. in box [illegible] in Doz. $9.00

Mohair Wig—Veil covered coiffure.
F7946—5 in. ½ doz. in box Doz. $9.50
F7947—[illegible] in. 1 box Each $1.35

"MISS SUMMERTIME SR." BATHING GIRLS

F7867 F7868

10½ in., standing, flesh tinted bisque finish composition painted features, [illegible] bathing suits and shoes

F7867 Painted hair rubber bathing cap, ½ doz. in box Doz $12.00
F7868—Real human hair coiffure, veil covered 1 in box Each $2.35

NOVELTY KEWPIE DOLLS

Genuine Rose O'Neill. Light weight composition body, flesh tinted, air brush finish, drill painted features.

F7956 F7957 F7958

Ribbon Dressed Wide [illegible] ribbon skirt, rib knit hand with bow, [illegible] in box
[illegible] 6 in. Each $1.35
[illegible] 10 " " 2.20
[illegible] 12 " " 2.75

Mohair Wig—Fashionable veil covered mohair coiffure. 1 in box
[illegible] 6 in. Each $1.50
[illegible] 8 " " 2.20
[illegible] 12½ " " 2.75

F7796—9 in. painted hair, flowered silk ribbon dress, [illegible] belt and shoulder straps with rosettes, chiffon ruffle cap. 1 in box. Each $1.85

F7952—9 in. asstd. color satin ribbon flares, skirts sweep down, cap to match, ribbon wristbands. 1 in box Each $1.90

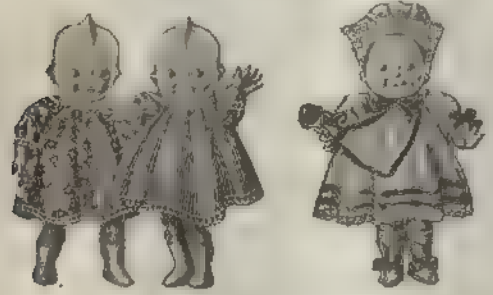
F7953—9 in. asstd. color chiffon [illegible] ruffles and band on ruffle skirt, [illegible] shoulder straps, tip to match. 1 in box Each $2.00

Bride—White satin skirt, sweep over, tulle veil, [illegible] wreath [illegible] 1 in box
[illegible] in. Each $2.10
F7957 10 " " 3.10
F7958 12½ " " 3.60

F7957—9 in. asstd. color brocaded satin skirt and pantalettes, silk braid shoulder straps, crochet cap, mohair wig, silk band on hair, ribbon wristbands. 1 in box Ea. $2.25

F7958—12½ in. white flared silk ribbon skirt, pantalettes, silk waistband, [illegible] shoulder straps, cap to match. 1 in box Ea. $3.50

KEWPIE DOLLS—Genuine Rose O'Neill



Cork Stuffed Kewpies—Composition head and hands, painted features, lace and ribbon trimmed crepe paper dress, underwear and stockings, concealing clip and shoulder straps, velvet bow.
[illegible] 4 styles, 12½ in. Assted. colors in bag Doz $15.00
[illegible] 1 style, boudoir [illegible] 1 in box Each $2.10

"FLUFFY BUD"

F7779—7½ in., full composition, flesh tinted bisque finish, painted features, pronounced eyelashes, blonde, brunette or auburn real human hair coiffure, veil covered jointed arms, fluffy maline skirt & pant [illegible] trimmed crepe paper bow on hair. Assted. blue, black, red or orange sets of clothes. SPECIFY COLOR. Each in lace trimmed box Each $3.10

"DARLING" BABY DOLL

F7904—14 in., well modeled composition head and hands, painted features and hair, soft cloth body, [illegible] and shoulder straps, white lawn [illegible] neck ruff, shoes, lace trimmed cap with ribbon tie, satin [illegible] and handkerchief. Assted. in box Doz $9.00

CRYING DOLL

Specially treated rubber shrieking, will not leak, celluloid face when pressed down cries and cries, will stand.

F7940 4 styles, 11 in., plaid gingham rompers, fancy prints, [illegible] dresses and jackets, trimmed box in [illegible] one with pocket and handkerchief. Assted. in box Doz $4.50

"SWEETIE" DOLLS

Chubby full composition body, bisque finish, roguish expression, jointed shoulders.

"Bathing Girl"—13½ in., [illegible] taffeta bloomers shirred elastic top and bottom, peak cap to match. 1 in box
F7781—With painted hair [illegible] Each, $1.65

"Ma Cherie"—13½ in., pastel silk skirt, lace trim pantalettes, [illegible] ribbon, pink [illegible] shoulders. 1 in box
F7782—With painted hair [illegible] to match Each $2.35
F7783—With real human hair coiffure veil covered Each, $2.95

STAPLE SELLING DOLLS

F7842 F7739

F7842—2 styles, 10½ in., check gingham slips and rompers, white and contrasting collars and belts. Assted. 1 doz. in box Doz. $2.40

F7738—2 styles, 13½ in., composition hands, mohair wigs, combination white & bow-tied [illegible] dress, ribbed [illegible] and sleeves, plaid gingham jumper dress with blouse, [illegible] to match, white socks, colored slippers. Assted. ½ doz. in pkg Doz. $9.25

F7839 F7689

STAR VALUE

F7839—4 styles, 11 in., check and plaid gingham rompers and dresses. Assted. 1 doz. in box Doz **$2.60**

F7686—2 styles 14½ in. composition hands, push cut [illegible] sateen body, [illegible] mohair wig, [illegible] bow, [illegible] and [illegible] ed solid color yokes, [illegible] trim, white socks. Assted. ½ doz. in pkg Doz $9.25

JOINTED BISQUE DOLLS

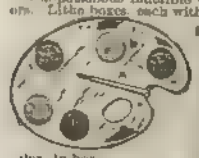
Special stout flesh tinted bodies painted curly hair, features, shoes and stockings.

F9681—3½ in. 1 doz. in box Doz 48c

F9653—6½ in. ½ doz. in box Doz $1.75

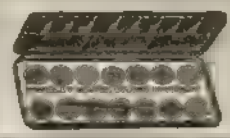
WATER COLORS

Non-poisonous indelible water colors. Little boxes, each with brush



F1720 — [illegible] dozen, in box

F1710—7x4 litho box, 6 wood cups with assted. colors, brush, 1 doz. in pkg ..... Doz. 95c

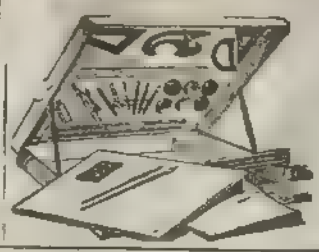


WATER COLOR PAINTS

In metal case.

F1724 — 7½ x 3¼ black japanned hinged metal case, 14 assted stamped water colors, 18 mixing spaces, camels' hair brush. ½ doz. in pkg. Doz. $2.25

"SCHOLARS'" PRINTING OUTFIT



Hinged slant ruler pencil [illegible] water colors, etc., wood cups, camels hair brush, palette.

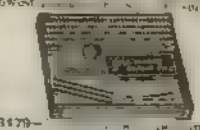
F1737—17½x11½ cabinet, 12 in. wood T square ruler, compass, ernest tube paste, triangles, protractor stencil, colors, crayons, 10 [illegible] drawing [illegible] form [illegible] brushes, [illegible] ing cup, etc. Wrapped in pkg. Each $2.00

CARDED CAMELS' HAIR BRUSH ASST.

F1739—About 7 in. assted. fine, medium and heavy metal ferrules, green stained wood handles, metal hangers. ½ doz. on card. Doz. 40c (Total 80c)

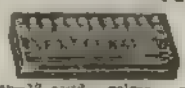
RUBBER TYPE PRINTING OUTFIT

[illegible] type, [illegible] ink. Instructions [illegible] lowest [illegible]

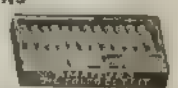


F3179— [illegible] numerals, tweezers, ink pad [illegible] box, 3 line type holder, [illegible] doz. sets in pkg. Doz. [illegible] T.O.

TUBE COLORS



Water—12 assted. colors, patent tubes, 2 bristle brushes. F1746—In spaced box. BOX of 12, 1.25



Oil—12 assted. colors in patent tubes, linseed oil, 3 bristle brushes. F1747—In spaced box. BOX of 12, 1.25

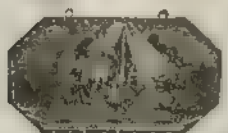
SOUVENIR NOVELTIES

CANDLES AND ARTIFICIAL FLOWERS

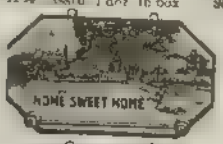
Every [illegible] we have been able to [illegible] and all [illegible] for [illegible] has [illegible] to [illegible] and [illegible] to reach [illegible] the lowest [illegible] of this season.

WOOD SOUVENIR NOVELTIES

Match Holder — 2 styles, 10½x6½, sand paper scratchers, wood cups, catchy verses. F4130—Assted. 1 doz. in box. Doz. 95c



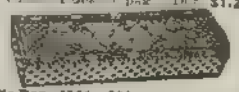
Pipe Holder — [illegible] tray, [illegible] tars & [illegible] designs, 3 [illegible] rack. Doz. [illegible] F4154 Assted. 1 doz. in box 95c



Tie Racks — 3 styles, [illegible] girls heads [illegible] Each [illegible] Assted. doz. in box 95c

Ribbon Rack—5 styles, 11x6½, girls heads, child figures. Interesting pastimes, etc. F4160—Assted. 1 doz. in box. Doz. 95c

Glove Box — [illegible] brass hinged cover, 4 floral design [illegible] Each [illegible] F4112 — 1 doz. in box. Doz. $1.25



Tie Box—11½ x 8¼, patent brass hinged cover, 4 floral & leaf design top. F4168—1 doz. in box. Doz. $1.25

Hdkf. Box — 4 styles, 6¼ in. square, patent brass hinged cover, up-to-the-minute design tops, poinsettia, carnation, poppy and rose with girl's head. Each [illegible] F4163—1 doz. in box. Doz. $1.25

SNAPPING MOTTOE

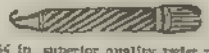
F5824—7¾ in. assted. styles and colors, finest crepe paper. Large [illegible] rose decorated [illegible] metal favors and snappers. ½ doz. in box. Doz. 45c

"STARLIGHT" DRIPLESS CANDLES

Stearic wax, burns slowly and brightly, the only candle material that will not bend, warp or drip. Standard size cable pattern, bright and durable colors, perfect finish. Assted. colors in the box. Specify [illegible] wanted. 12 boxes in pkg.

F4112—12 in box
F4113—4
F4114—48
F4115—48
} Box 11c

"MONARCH" CANDELABRUM OR BANQUET CANDLES



5½ in. superior quality twist pattern. Wrapped, 1 doz. in box.

F4104—Red
F4105—Pink
F4106—Green
F4107—Yellow
F4108—White
} Box 32c

"ROSE" CAKE CANDLE HOLDERS

For use on holiday and birthday cakes, etc. Absolutely harmless composition, [illegible] water. Each [illegible]

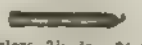
Solid Colors — For [illegible] cakes, [illegible] box.

Light [illegible] White
Light [illegible]
Dark [illegible]
Dark [illegible] Yellow
} BOX of 100 90c

Assted. Colors
F4103— BOX of 100 90c

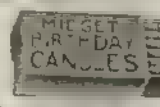
MIDGET BIRTHDAY CANDLES

Genuine stearic wax, burns slowly and brightly.



Solid Colors — 2½ in., 24 in box. 1 doz. boxes in carton.

F4140—White
[illegible] Pink
[illegible] Blue
[illegible] Green
[illegible] Yellow
} Doz. boxes 48c



Assted. Colors — [illegible] 4 in box, white & [illegible] pink & white & [illegible] green & yellow. F4107—6 doz. boxes in carton. Total 864 Doz. boxes, 48c

CLOTH AND VELVET FLOWERS

Tinted Carnation—18 in. stem, wax. Petals of flower [illegible] assted. colors. F3076— doz. in box. Doz. 50c Total [illegible]

La France Rose — 17 in. stem, [illegible] waxed [illegible] colors, green [illegible] shaded [illegible] Assted. red, pink and [illegible] F3078— [illegible] doz. in box. Doz. 65c Total $1.95

F3079— [illegible] 2 in. [illegible] leaves, [illegible] doz. in box. Doz. 89c

PAPER FLOWERS

For home use or decorative purposes. All [illegible] wired [illegible] Careful [illegible] and packing.

Carnation—Large extra full or ripple [illegible] Assted. [illegible] F380 — Assted. [illegible] doz. in box. Doz. $1.35

Rose—Extra large full blown, 2 double leaf clusters, 12 in. stem. Assted. pink, white, red and [illegible] F3830— doz. in box. Doz. 42c Total 840

Chrysanthemum—Petals naturally [illegible] and twisted, assted. white [illegible] F3870— doz. in box. Doz. 42c Total 840

F3871— Extra full flower, large [illegible] Light green [illegible] to 16 in. stem, 1 doz. in box. Doz. 89c

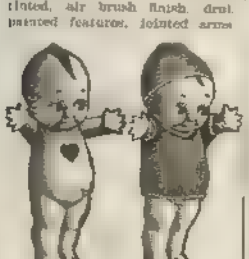
F3869—Jonquil — Imported spray in [illegible] shade, [illegible] wired petals, crepe paper [illegible] stem and [illegible] doz. in box. Total $1.78 Doz. 89c

POPULAR SELLING DOLLS

Various types of favorites. Kewpie, the Lady and the Child, bisque and china dolls. These are offered here at attractive prices.

NOVELTY KEWPIE DOLLS

Genuine Rose O'Neill. Light weight composition body, flesh tinted, air brush finish, drilled, painted features, jointed arms.



Undressed—The most popular [illegible] doz. in box. [illegible] Doz. $9.85
[illegible] 10 in. [illegible] 15.50
[illegible] 17.75

"Sweater" Kewpie—Art silk [illegible] shirt, cap to match. F7924—8 in. [illegible] doz. box. Doz. $15.00
F7939— 6½ in. [illegible] box. Each $1.80

UNDRESSED KEWPIE DOLL On Pedestal

F7921—12 in. plaster model, painted eyes and features, jointed body, [illegible] arms on pedestal. This Kewpie doll is [illegible] wonderful [illegible] and [illegible] arms [illegible] In bx. Dz. $7.40

CELLULOID KEWPIE DOLLS

Heavy celluloid, painted features & hair, unass'td. hollow feather weight bodies in large demand for dressing, carriage trim & babies' baths.

F7811—2½ in. assted. arms. 5 doz. in box. Doz. 95c (Total $2.85)

F7814—6 in., jointed arms. ½ doz. in box. Doz. $8.40

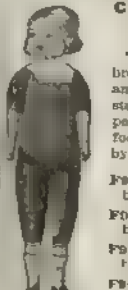
BISQUE BABY DOLL IN BATH TUB

F9788 — Bisque, 1¾ in., sitting detachable baby, painted hair and features, white china, 2¾ in. tub, heavy gilt rim. 1 doz. in box. Doz. 78c

SOLID CHINA PENNY DOLL

F9781 — 2¼ in., white body, painted features, blonde and brunette hair, 1 grn. to box. Grs. 89c

TURNING HEAD CHINA LIMB DOLLS



Turning china head and breast plate, china forearms and legs, sawdust stuffed strong red muslin body, painted features, hair and footwear. Sold exclusively by us.

F9658—5½ in., 3 doz. in box. Doz. 92c
F9659—7½ in., 1 doz. in box. Doz. $1.10
F9660—8 in., 1 doz. in box. Doz. $1.60
F9661—10½ in., 1 doz. in box. Doz. $2.50

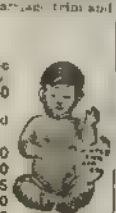
CELLULOID DOLLS

Heavy celluloid, painted features and hair, bisque size, [illegible] weight, assted., in large demand for dressing, carriage trim and babies' baths.

Floating Dolls—Fixed arms and legs. F7[illegible] 5 in. 1 doz. in box. Doz. 96c
F7[illegible] 7½ in. painted footwear, assted. in box. Doz. $2.50

Baby Models—Painted hair, jointed arms and legs, stout bodies, [illegible] strung.

F7[illegible] 5½ in. 1 doz. in box. Doz. $1.40
F7[illegible] 5 " " " " 2.40
F7[illegible] 6½ " " " " 4.75
F7[illegible] 8½ " " " " 9.50
F7174—11 " " " " 17.00



F7176

F9300

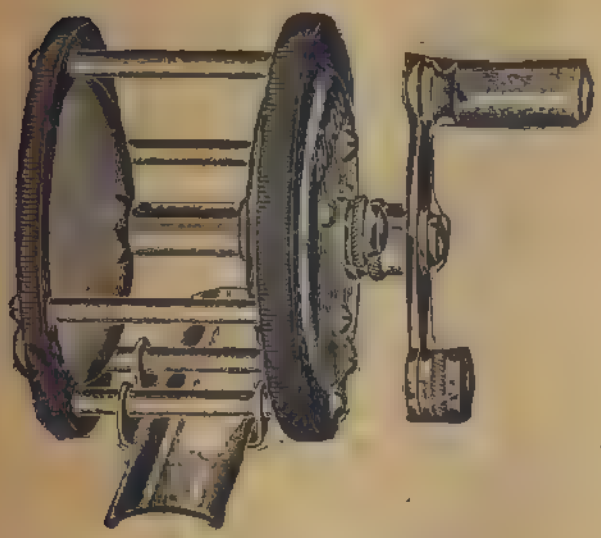
CHARACTER CELLULOID DOLL ASSTS.

Made of heavy celluloid, painted features, hair, dress and head.

F9100—6 styles, 5½ in. Assted. 3 doz. in box. Total $1.95. Doz. 95c
Have [illegible] and [illegible] painted features, [illegible] hat, [illegible] and [illegible] Assortment [illegible]
F9176—8½ in. Assted. ½ doz. in box. Doz. $4.50
F9177—8½ in. Assted. ½ doz. in box. Doz. $9.00

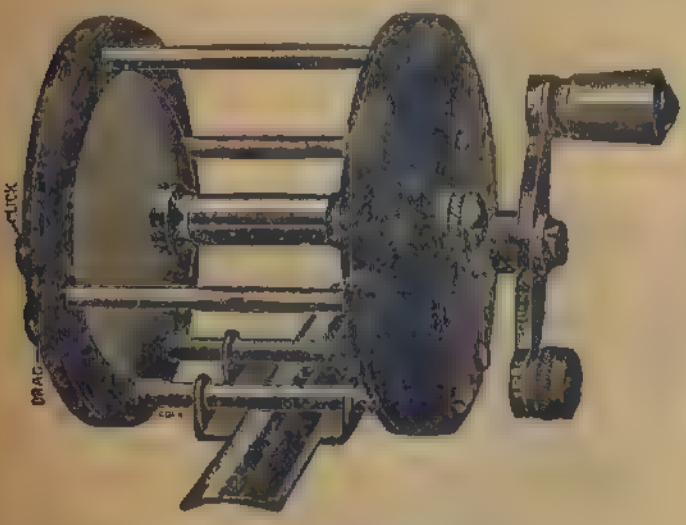
FISHING REELS

DOUBLE MULTIPLYING



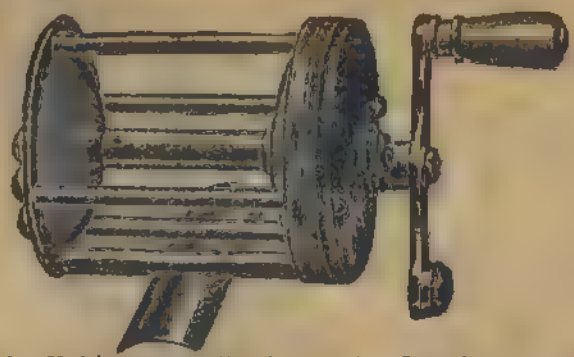
"Huron"—Hard rubber. Knurled edge plates. Nickel plated mounting. Adjustable click. Celluloid handle, pivot bearings. Jeweled. Double multiplying.

Capacity, yards	60
Weight dozen, lbs.	5
Each	$5.50



"Waterwitch"—Hard rubber plates. Nickel plated fittings. Double multiplying. Adjustable click and drag.

No.	200
Capacity, yards	60
Weight dozen, lbs.	6
Each	$5 50

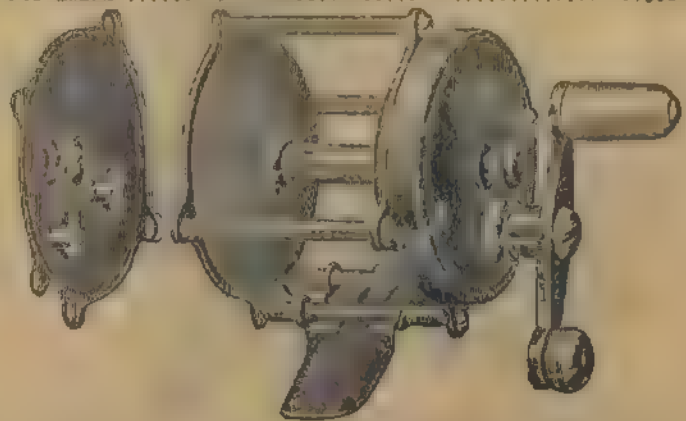


Double Multiplying. Nickel plated. Round disc pattern Click and drag. Oil caps. Steel pivots. White handle.

Nos.	202	203
Capacity, yards	40	60
Weight dozen, lbs.	3¼	4
Per dozen	$44 00	48 00

"Winner"—Hard rubber plates with metal bands on edges. Metal bushings for top and bottom pivots. Fancy oil cups over pivots. Adjustable click and drag. Fancy crank with white celluloid handle. Double multiplying.

No.	174
Capacity, yards	60
Weight per dozen, lbs.	4½
Per dozen	$66 00



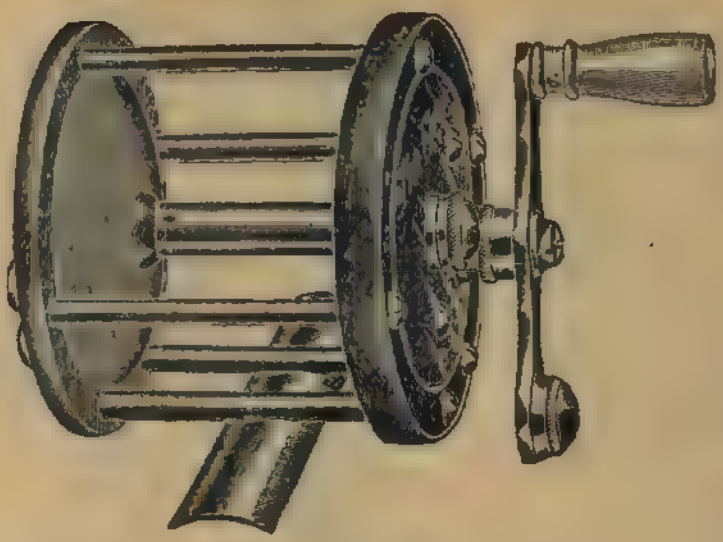
"Cascade"—Balanced crank, white rubberette handle; front and back fancy oil cups with scarlet jewels; back sliding click and drag.

Nos.	1142 JG	1143 JG
Capacity, yards	40	60
Length of pillars, inch	1⅜	1⅝
Diameter of disc, inch	2	2¼
Per dozen	$40.00	42.00

All above, one in a box.

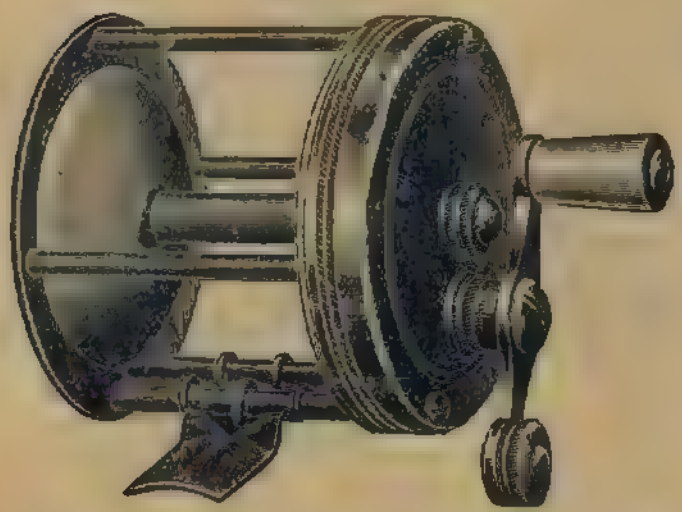
FISHING REELS

QUADRUPLE MULTIPLYING



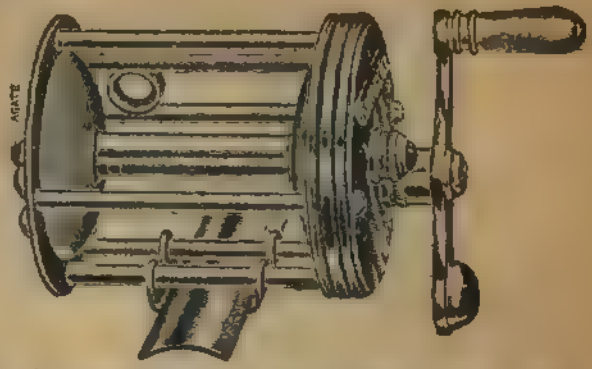
"Elite"—Nickel silver. Quadruple. Rubber plates, with nickel silver bands and edges. Steel pivots, axles and pinions. Adjustable click and drag. Balanced white handle.

No.	175
Capacity yards	60
Weight each, ozs.	7
Each	$9.50



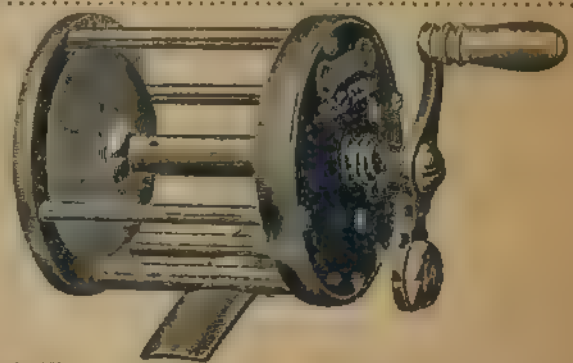
"Sentrie"—Nickel plated. Quadruple. Round discs. Balanced wood handle. Screwed. Brass pivots. Sliding click and drag.

No.	145
Capacity, yards	60
Weight each, lbs.	6¼
Each	Each $4.00



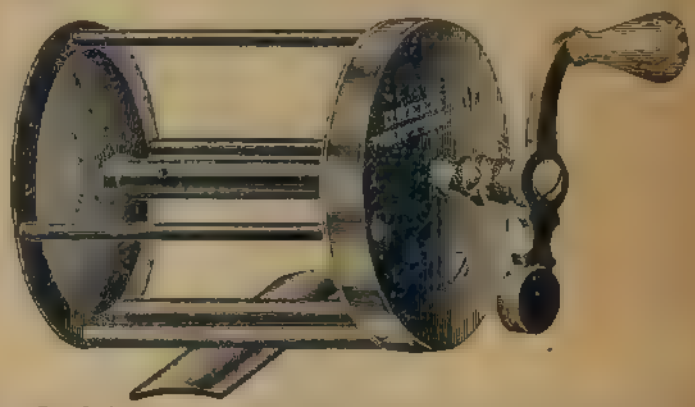
"Canada"—Quadruple multiplying. Nickel finish. Steel pivots. Line guide. Long barrel casting reel.

No.	913
Capacity, yards	60
Each	$5.50



"Capitol"—Hard rubber discs, reverse metal bound; fancy balanced handle with Pyralin ivory thumb piece; steel pinion and pivots; oil cups, front and back; adjustable back sliding click and drag, steel pivot and bearings.

Nos.	603	604
Capacity, yards	60	80
Length of pillars, inch	1⅞	1⅞
Diameter of discs, inch	2¼	2½
Each	$8 00	8 50



"Creek Whipper"—Quadruple. Adjustable back sliding click. Steel pivots. White handle. Full nickel plated. Solid frame. Remove the cap screws to take apart.

No.	923
Capacity, yards	80
Weight, lbs	½
Each	$6.00

All above, one in a box.

WALL

WALK LAID

ROPE

WALL ROPE WORKS, INC.

New York: 48 South St. **Works: Beverly, N. J.**

Philadelphia Baltimore Norfolk New Orleans Galveston

"See Those Guns!"

This Hardware store knows how to "hunt" for Fall trade—they know how to display rifles and shotguns so that sportsmen will be sure to *notice* them. What

"DULUTH" Display Shelving

does for this store it will do for your store—*show* and *sell* the goods.

Not only display sporting goods to the best possible advantage, but other Hardware as well.

Because "Duluth" Sectional Display Shelving is made by specialists who have made a special study of both Hardware and Hardware *stores* and then built Fixtures to fit the Hardware business.

Built them on the Unit System so that extra sections can be quickly and easily added at any time—built them *right*.

And the cost is so reasonable that the small dealer can well afford to install them

Send for catalog and full particulars.

Store Fixtures Made Exclusively for Hardware Stores

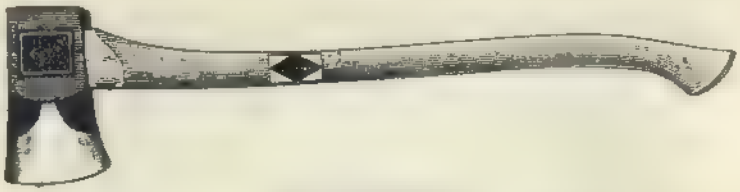
DULUTH SHOW CASE COMPANY DULUTH, MINN.

BOY'S SINGLE BIT HANDLED AXES

EAGLE

RED PAINTED BODY. BLUE PAINTED PHANTOM BEVELS. POLISHED BIT AND HEAD

Cast Steel. Carefully Tempered Each Axe is Labeled Carefully Handled by Experienced Workmen. With Selected Hickory Handles



DAYTON PATTERN

Per Dozen

No. 22 Bent Oval, Size 2, 28-inch Selected Hickory Handle Weight Per Dozen About 38 Lbs **$18.00**
One dozen in a box, handles projecting, axe head wrapped in heavy paper

KELLY PERFECT

BLUE PHANTOM BEVELS. POLISHED BIT AND POLL

Solid Steel Poll Crucible Forged Steel Bit Tempered with Natural Gas Sharpened Ready for Use The Patented Bevels Prevent the Axe from Binding in the Wood and Makes it Easier to Sharpen An attractive Label Appears on Each Axe Very Carefully Handled by Experienced Workmen with Selected Hickory Handles

DAYTON PATTERN

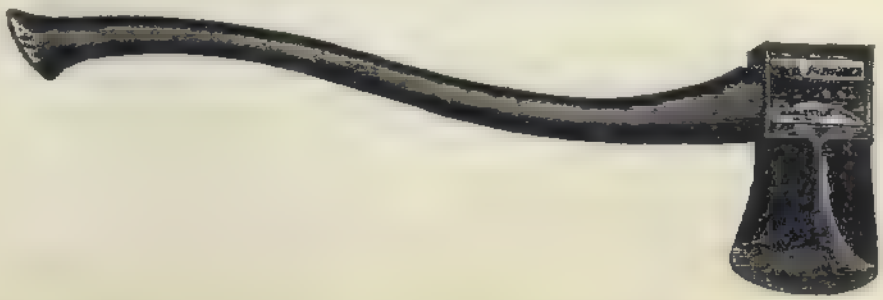
Per Dozen

No. 20—Bent Oval, Size 2, 28-inch Selected Hickory Handle Weight Per Dozen About 40 Lbs **$27.00**
Half dozen in a box, handles projecting and burlapped. Axe head wrapped in heavy paper.

RED ROVER

RED PAINTED BODY. GREEN PAINTED PHANTOM BEVELS. POLISHED BIT AND HEAD.

Soft Steel Poll Crucible Steel Bit Tempered with Natural Gas Patented Bevels Each Axe is Labeled Carefully Handled by Experienced Workmen, with Selected Hickory Handles



Per Dozen

No. 43—Bent Oval, Size 2, 28-inch Golden Oak Handle. Per Dozen Weight Per Dozen About 44 Lbs **$25.00**
Half dozen in a box, handles projecting and burlapped. Axe head wrapped in heavy paper

BOYS' SINGLE BIT HANDLED AXES

JIM DANDY

Best Refined Crucible Steel. Carefully Tempered. Each Axe Bears a Most Attractive Label

DEAD BLACK FINISH. POLISHED BIT AND POLL

No. 1200—Oval Handles. Size 2.. . . . . Per Dozen **$24.00**

MINERS' SINGLE BIT HANDLED AXES

CRESCENT

RED PAINTED BODY. POLISHED BIT AND POLL

Special Crucible Forged Steel Carefully Tempered Each Axe Bears an Axe Label 'Crescent' Black and Gold Label.

DAYTON PATTERN

Straight Oval Handles No. 2

Weights, Heads, Assorted, Lbs	3½ to 4½	4 to 5
Length of Handles	24	26
Per Dozen	$34.00	34.00

Headquarters for Bicycles and Sundries

See Separate Catalog

"ECLIPSE" PORTABLE ELEVATOR AND GRAIN DUMP

$175.00

DIRECT FROM FACTORY TO YOU

CAN BE FURNISHED 24 FEET OR LONGER

CAN BE RUN BY HORSE OR ENGINE POWER

OPEN TELESCOPE SPOUTE IS EXTRA. NOTE PRICES.

Guaranteed to do Perfect Work in Handling Corn, Shelled Corn, Flax Seed, Wheat or all small Grain, Dirt, Crushed Rock, etc.

The Eclipse Portable Grain Elevator and Grain Dump is constructed by experienced workmen and is fully guaranteed to do the work intended for same in a satisfactory manner, and the factory manufacturing same and ourselves hereby agree to replace any part or parts which may prove defective on account of poor material or workmanship.

ELEVATOR IS MOUNTED ALWAYS READY FOR TRANSPORTATION

THE FRAME OF ELEVATOR IS OF WOOD.

The Eclipse Elevator is always ready for use as we do not use a bolster, our front wheels with tongue and axle are hooked into a ring which is fastened to the boot end of the elevator. This forms a cushion hitch and can be turned around in a very small space. Our windlass for raising the elevator is fastened to the elevator proper in place of the derrick or truck, hence the raising feature is still maintained should circumstances necessitate removal of the trucks and derrick which is often necessary when the user wishes to elevate into a back bin or in a driveway or because of overhead timber the derrick can not be raised. In this case our trucks and hoisting derrick can be removed by loosening two bolts. The hoisting rope can be attached somewhere to a rafter or overhead timber and the elevator raised to its desired height by the same reel as if the derrick was attached.

No portable elevator is complete to meet all circumstances found by the average users unless this feature is incorporated in the construction. This is an exclusive feature with it and helps to make it a leader in its class and has been adopted after studying the requirements of its many

Our new Improved Screw Hoist Derrick, which is fool proof, for the horse or gas engine, raises and lowers a wagon so there is no chance to let the wagon fall in raising, as the screw hoist holds the wagon at any point it stops, and this stops all breakage. It is the finest thing that ever been put on a wagon jack.

You can see from the cut of the screw hoist that the speed jack is connected to it and does not go with the outfit only when speed jack is ordered for gas engines to operate the outfit, and then the horse power is left out and speed jack is put on the wagon jack, which makes a neat, handy job.

Note the Simplicity and neatness of construction. The bottoms of both the trough and return are made up of strips covered with sheet steel, insuring against warping or heaving out of shape, thereby causing an uneven surface. The bottoms are held in place by tie rods. The chain runs on wood ways and is attached to the center of the steel flights from riding over the contents.

The Wood Ways lessen the wear of the chain, causing the chain to wear twice as long as if run over metal. The ways can easily be replaced, should it be required after long usage. The hoisting derrick raises automatically as the operator begins to wind on the reel. After the derrick is in its erect position the elevator starts on its proper adjustment, hence the derrick and elevator are raised by one operation, while in most other machines two operations are required.

Double Geared Horse Power. If you do not have a gas engine and intend to use horse power you will be obliged to use a horse power and we would suggest that you purchase our double geared horse power which has been especially made for operating a portable elevator. The speed is just right for driving the elevator to best advantage. As couplings are furnished with the outfit you can, when so desired, use this horse power for running any other kind of machinery which does not require more than two horses to operate. A great many sweep powers used with elevators are strong enough where you do not use the horses in front of conveyor, but as you may build a stronger one at some time in the future it is well to have a power which you know can be depended upon to do the work at all times.

Illustration shows our Improved Screw Hoist Derrick or Wagon Jack.

The Elevator Proper as regularly furnished is 24 ft. long and measures 14 in. wide. It has strong, durable metal which we absolutely guarantee to be grain tight. The return bottom is also grain tight, and the close-fitting connection at the bottom where the tilting hopper attaches is so arranged that it will spill less oats or small grain than any other elevator we have yet seen. Special attention has been given to that feature and we know it will please you. An elevator will work at about two thirds the length, that is, a twenty-four foot machine will elevate sixteen feet to the upper end where the grain is discharged into the bin. If the spout is used do not overlook the fact that it must have sufficient slant for the corn or grain to slide through it freely.

Horizontal Conveyor—In some instances it is necessary to elevate the material into the gable end of a building and from there conducting it the entire length of the building, discharging at different places along the line. Our Horizontal Conveyor meets this requirement, which consists of a regular portable elevator and a horizontal Drag or Conveyor. We call special attention to the connection of the elevator to the inside horizontal Conveyor. The horizontal Conveyor is a separate detachable part and after once fastened in position need not be taken down in connecting or disconnecting the elevator part, therefore is always stored away when not in use, without handling. The elevator can be simply raised with our windlass so that the discharging end is directly over the horizontal Drag hopper, then by putting in two bolts the connection is complete.

Telescope Spouts. Meets all Requirements for Spouting either Small Grain or Corn—This spout has become very popular with its many users as it meets with all requirements for spouting either small grain or corn. It can be turned at an angle; hence the discharge end of the elevator or independent section to the center of the crib one can fill the entire crib with one setting and in most places takes the place of a crib conveyer.

In determining the length of spout needed, measure from the point of discharge and within a few feet from the further point to which the grain is to be discharged from the spout.

SPEED JACK—Operating with Gas Engine necessitates the Use of a Speed Jack. We build a speed Jack to run the elevator by gasoline engine or such motive power other than horse power. This Speed Jack is constructed with a throw out Clutch so that the operator need not stop the gasoline engine between loads. This is is a great feature in Speed Jacks. In ordering a Speed Jack, always be sure to state the size and speed of pulley from which it is to be run.

Illustration of Engine Speed Jack, showing Clutch and Lever for stopping Elevator without stopping Engine, thus costs Extra. Note Prices.

We have illustrated our outfits running by horse power, but equally as well can they be run by other motive power, such as gas engines. The way this is done is simply to attach the tumbling rod that is attached to the power to a speed jack and belt the jack to the engine. In this case only a short tumbling rod is necessary. We can furnish speed jacks with our elevator outfits when desired. In ordering this Elevator it is important to know what length of elevator is wanted to reach the desired height. Our Elevator, like all others of its class, will elevate two-thirds its length—that is 24 foot elevator will elevate 16 feet to the upper end where discharged, into the spout or bin. This does not mean that the discharging end of the spout is 16 feet from the ground; allowance must be made for giving the spout the necessary slant to have the grain slide freely. Our standard elevator is 24 feet long, not including the tilting feeder which goes with every elevator. Any length divisible by 4 can be furnished after the first 16 feet, as the first section containing the tilting feeder is 16 feet long—that is, you can have an elevator 20, 24, 28, 32 feet long and so on.

Our Eclipse Portable Elevator and Wagon Dump consists of one 24 foot elevator mounted on a four wheel truck with self contained hoisting derrick, receiving hopper, wagon jack, pulleys, couplings, rope, etc. with tumbling rod and couplings when horse power is furnished, but engine speed jack is furnished only at an extra charge. If you desire to use some other horse power remember the drive shaft in the elevator should make about 100 revolutions per minute so that any horse power making from 24 to 40 revolutions to one round of the horses can be used successfully. Shipped direct to you from our St. Louis factory.

B-2837	Eclipse, 24 foot elevator mounted on 4-wheel truck, complete with Wagon Jack Derrick and New Improved Screw Hoist. Shipping weight 1450 lbs. Price	$175.00
B-2838	2-horse power, double geared. Price	45.50
B-2839	Speed jack attached to wagon jack for gasoline power, extra	12.50
B-2840	Independent Speed Jack	12.00
B-2841	Open Telescope Spout, per foot	1.54
B-2842	Extra Elevator Sections, after the first 24 feet, per foot	2 90
B-2843	Extra Roof Sections, per foot	2 90

THE "MAJESTIC" GRAIN DISC DRILL

MADE WITH AND WITHOUT FERTILIZER ATTACHMENT. HAS DOUBLE RUN FORCE FEED.

THE FRAME is built of one continuous steel pipe, 1¼ inch, bent at the corners and connected in the rear by cross bar with heavy fittings. THE AXLE is of continuous cold rolled steel, 8 to 12 discs are of 1 5-16 inch; 14 to 22 discs, 1 3-8 inch. STEEL WHEELS. The wheels are made extra strong of heavy steel; are 42 inches high, with 3 inch tire up to 14 disc, and 4 inch tire on 16 to 22 disc, with ratchet plate on the inside of wheel next to the axle box, making a solid base for the hub, rigidly attached to the axle. FEED REGULATOR. The quantity of grain is changed by our Majestic Speed Disc and the sliding pinion which meshes accurately in various rows of cogs on the speed disc. By means of shifting lever the change in quantity of grain may be made without raising the discs out of the ground but when they are raised the feeds stop simultaneously. FEED—The vital part of a Grain Drill is its FEED. It is really the heart of the drill, and upon the utility of the feed depends the accurate sowing of the grain. We use the DOUBLE RUN FORCE FEED SYSTEM. This double-run feed has a standard wheat throat and extra large oat throat, thus easily permitting the passage, without wedging or cracking of trashy varieties of long bearded oats, cow peas, lima beans, etc. Bear in mind that all devices for sowing grain measure the seed and do not sow by weight, hence the slight variations from indicated amounts unless standard or medium-size grain is used for seed. There are two openings, viz.; one for wheat and small grain, and the other for oats, peas, beans, barley, beet seed, etc. Each revolution of the feed wheel is certain to deliver the same amount of grain from each distributor. The feed never bunches the seed. It sows all kinds of seed in just the quantity desired, cow peas, corn and beans included; does not crack the seed. Cracked seed will not germinate.

DISCS—13-inch large discs, with 6 inch assistant which runs slightly behind the large disc, thus keeping the furrow open until the seed is deposited both fitted with chilled iron bone bearings. All discs fitted with adjustable scrapers.

DRAG BARS—High carbon steel drag bars, 1½x½ inch, which are bolted near the top of the disc at the rear and to the steel draft rod at the front of the frame, insuring rigidity to line.

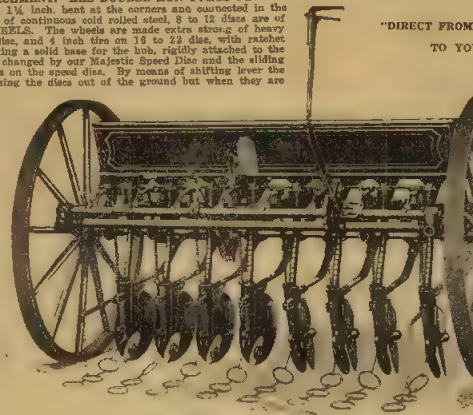
PRESSURE—Long coiled steel springs, applied at the rear of the boot, the most effective point for applying same.

DRAG CHAINS—Heavy 3-8 inch chains, with the two end chains lifted automatically and carried clear of the drive wheels when turning.

All Disc Drills are equipped with our small cleaning disc on convex ends of large disc. This disc serves as a cleaner and assistant furrow opener for the large disc, provides a wide seed bed and is controlled by us under our own patents exclusively.

TUBES—Ribbon steel grain tubes are used on this drill. These tubes are swiveled into the receivers and cannot kink or buckle

PRESSURE WHEELS. At an extra price we can equip drills with **pressure wheels 14½ inches in diameter, 1¾ inch face** in place of drag chains. These are desirable in wheat growing sections where the soil is loose. Grass seeder attachment furnished only at an extra price when ordered, sows broadcast Alfalfa, Clover, Timothy, etc., and will sow separately or with grain and ahead or back of discs as desired. Special alfalfa seeder saves seed through seed tubes in furrows. Agitator attachment is necessary for sowing long bearded oats. Seat is not regularly furnished, as most operators prefer to ride at seed box. Fertilizer drills have double hoppers, one compartment for sowing grain, the other for the fertilizer. Agitator feed sows 100 to 400 pounds per acre. Feed is thrown out of gear by hand at end of row, or at any time desired, without stopping the grain feed. Prices are for drills complete with evener and neckyoke. Two-horse evener furnished with 8 and 9 disc drills, 3 horse evener with 10 disc drills, and 4 horse evener with larger size drills. Shipped direct to you from Indiana Factory.

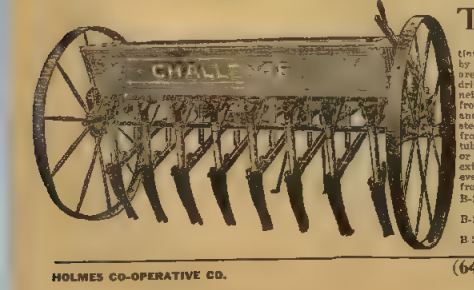


HAS 48-INCH STEEL WHEELS. CAN BE FURNISHED WITH PRESSURE WHEELS IN PLACE OF CHAINS.

PRICES FOR PLAIN DRILLS AND DRILLS WITH FERTILIZER ATTACHMENT.	Plain Grain Drills	Combination and Grain Fertilizer Drills
B-2519—8-discs 8 in. apart, single lever, 1 tongue, 2 horse evener, weight 700 pounds		
B-2520—8-discs 7 in. apart, single lever, 1 tongue, 2 horse evener, weight 720 pounds		
B-2521—9-discs 8 in. apart, single lever, 1 tongue, 2 horse evener, weight 730 pounds		
B-2522—10-discs 7 in. apart, single lever, 1 tongue, 1 horse evener, weight 850 pounds		
B-2523—10-discs 8 in. apart, single lever, 1 tongue, 3 horse evener, weight 926		
B-2524—12-discs 7 in. apart, double levers, 1 tongue 4 horse evener, weight 1050		
B-2525—12-discs 8 in. apart, double levers 1 tongue, 4 horse evener, weight 1160		
B-2526—14-discs 7 in. apart, double levers, 1 tongue, 4 horse evener, weight 1260		
B-2527—14-discs 8 in apart, double levers, 2 tongues, 4 horse evener, weight 1350		
B-2528—16 discs 7 in apart double levers, 2 tongues 4 horse evener, weight 1275		
B-2529—16 discs 8 in apart, double levers, 2 tongues, 4 horse evener weight 1475		
B-2530—18 discs 7 in. apart, double levers, 2 tongues 4 horse evener weight 1525		
B-2531—20 discs 7 in apart double levers, 2 tongues, 4 horse evener weight 1600		
B-2532—Extra for Grass Seeder Attachment for 8, 9 and 10-Disc Drills, additional weight about 30 pounds		
B-2533—Extra for Grass Seeder Attachment for 12, 14, 16, 18, and 20-Disc Drills, additional weight, about 50 pounds.		
B-2534—Extra for Alfalfa Seeder Attachment for 8, 9 and 10 Disc Drills: additional weight, about 10 pounds		
B-2535—Extra for Alfalfa Seeder Attachment for 12, 14 and 16-Disc Drills: additional weight, about 15 pounds		
B-2536—Extra for Alfalfa Seeder Attachment for 18 and 20-Disc Drills, additional weight, about 20 pounds		
B-2537—Agitator Attachment for sowing bearded oats, additional weight about 10 pounds		
B-2538—Spring Presser Wheel Attachment, per wheel, additional weight, about 15 pounds, per disc		
B-2539—Iron Seat with spring for any size drill, weight 15 lbs.		

Write for Prices

WRITE FOR SPECIAL PRICES



The "Challenge" Hoe Drill

The Challenge 8 and 10 Hoe Grain Drills have a frame of 1¼ inch continuous steel tubing. Axle 1 5-16 inch in diameter, cold rolled steel driven by a heavy chain from left wheel. Wheels are of steel, have staggered spokes, are 42 inches high, with 2½ inch tire, not fitted with ratchet hubs. This drill is fitted with pin break hoes only and spring trip cannot be attached, neither can fertilizer attachment. The force feed is driven by chain direct from axle and a gauge shows the amount of wheat, oats, flax, barley, beets and small grains sown and can be changed while drill is in motion. Double steel drag bars are furnished on size 1½x5-16 in. When the hoes are raised from the ground the drill is thrown out of gear. Hoes are 8 in. apart and tubes are rubber. Grass seeder force feed, permits of sowing either in front of or behind hoes, all small grass seeds, including alfalfa, supplied at small extra cost. Fertilizer attachment cannot be supplied with these drills. Seat, evener and neckyoke not furnished at prices quoted. Shipped direct to you from Indiana Factory.

B-2540—Challenge 8 Hoe, 8 inches apart, Plants 5½ feet, weight 600 Pounds

B-2541—Challenge 10 Hoe, 8 inches apart, Plants 7 feet, weight, 550 Pounds

B-2542—Extra for Grass Seed Attachment, weight 50 pounds

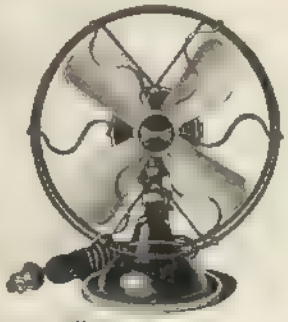
For doubletrees, single trees and neckyoke add

Electric Fans

"MENOMINEE" 4 BLADE ELECTRIC FANS

Made By Menominee Electric Fan Co.

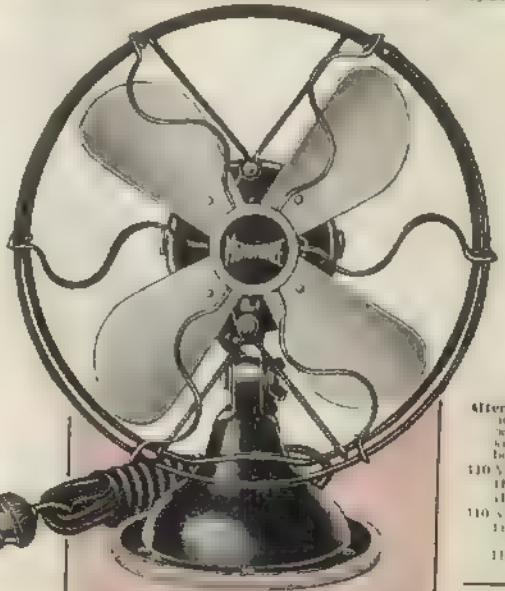
All fans mounted with separable [illegible] and [illegible] cord. Universal motors operate on either direct or alternating current. "Menominee" fans are guaranteed against all [illegible] defects. Should any fan [illegible] within [illegible] days from date of sale, we will make repair or replacement without charge. A [illegible] tag is furnished with every fan. Any fan that proves unsatisfactory positively must be returned within 10 days from date of sale. Try a fan out [illegible]



Menominee Stationary

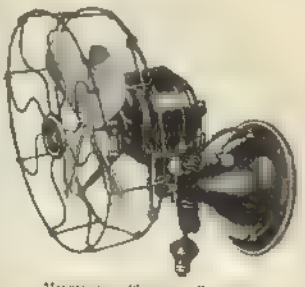
Direct or Alternating Current—Universal motor, [illegible] to 60 cycles, 4 [illegible] blades brass [illegible] steel guard, [illegible] cast rear motor body and [illegible] Each in [illegible] carton, [illegible] rings [illegible] to base [illegible] [illegible] [illegible] Each in wire bound wood box.

32 VOLTS—STATIONARY				Each
1H7049	9 In.	1 speed	13 lbs	$10.00
1H7053	9 "	"	15	11.50
32 VOLTS—OSCILLATING				Each
1H7016	9 In.	3 speeds	15 lbs	$16.50



Direct or Alternating Current—Universal motor, [illegible] to 60 cycles, 4 full size [illegible] blades brass [illegible] steel guard, [illegible] finish [illegible] and [illegible] Each in [illegible] carton, [illegible] speeds [illegible] [illegible] and [illegible] Each in wire bound wood box.

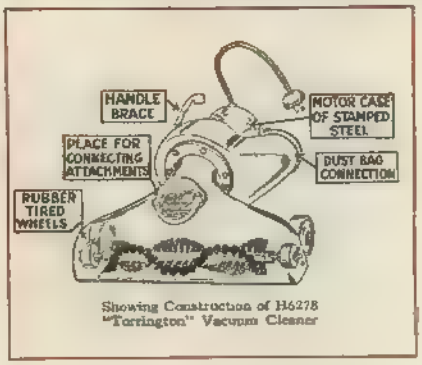
110 VOLTS—STATIONARY					
[illegible]	[illegible]	[illegible]	[illegible]	Each	Each
1H7032	12 In.	3 speeds	20 lbs.	$9.00	$9.50
1H7033	16 "	"	30 "	10.50	11.00
110 VOLTS—OSCILLATING					
				Lots of 3,	Single
1H7082	16 In.	3 Speeds	30 lbs.	Each $14.50	$15.00



Menominee Wall Fan
Shown in position to feature both the oscillating and stationary types

Alternating Current—4 solid brass blades, black japanned [illegible] steel [illegible] and [illegible] [illegible] [illegible]

Torrington VACUUM CLEANER



Showing Construction of H6278 "Torrington" Vacuum Cleaner

Machines of recognized quality, perfectly constructed and embodying the latest improvements. The motor unhampered by belts or gears delivers its entire power to generate suction. The switch and wire connections are conveniently located in the handle. The national advertising campaign carried on by the manufacturer plus our special free advertising offer will greatly increase your sales. You can offer these cleaners with full assurance that they will give absolute satisfaction. Order Now.

"TORRINGTON" ELECTRIC VACUUM CLEANER

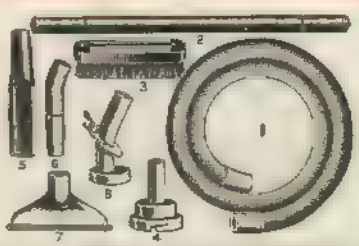
Licensed Under Kenney Patents

H6278—Highly nickeled steel case, 12½ in. wide rubber tire, roller bearing steel wheels, nickeled steel nozzle, adjustable revolving bristle brush, can be lowered or raised for picking up lint, threads, etc. 110 volt single phase universal current motor in nickel plated steel case has separate cooling fans on armature shaft, armature mounted on extra large phosphor bronze bearings, 3½ ft. black rubberoid handle, rubber switch on cord, nickeled hand parts, specially constructed dust bag, screens all dust thoroughly, 20 ft. insulated cord with electric plug, fits any electric fixture. Removes every bit of dust or grit from rugs or carpets and saves wear. 1 in crate, 12 lbs.

Each, **$38.75** | Lots of 3, Each **$38.25** With Free Advertising

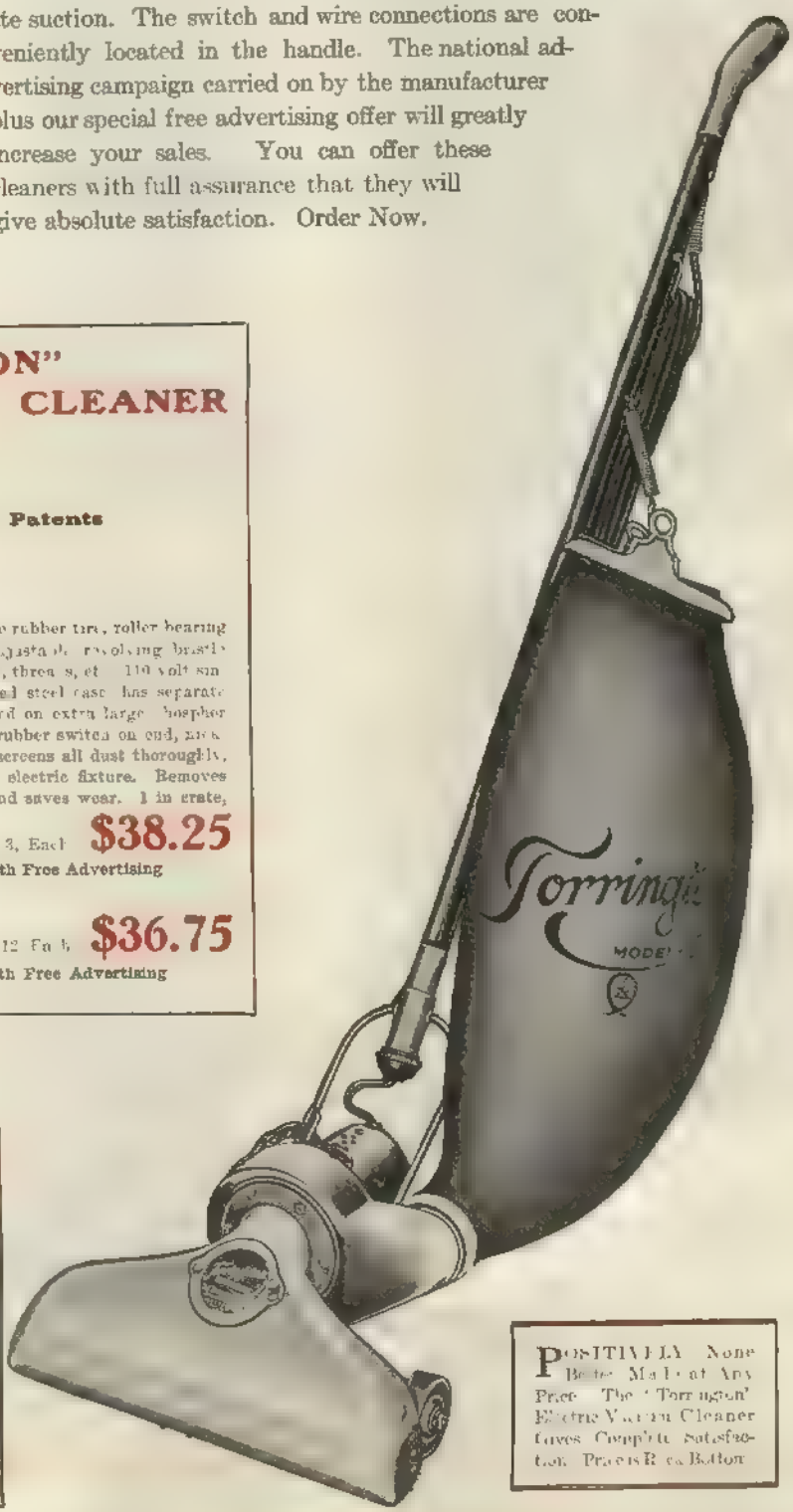
Lots of 6, Each **$38.25** With Free Advertising | Lots of 12, Each **$36.75** With Free Advertising

"TORRINGTON" ATTACHMENTS



H6280—[illegible] of 8 ft. green [illegible] reinforced hose and [illegible] nickeled metal handle, [illegible] brass cleaning tube, [illegible] nickeled metal handle, [illegible] nickeled connector, this is [illegible] complete set of 8 complete attachments. 1 set in box

SET 8 pcs. **$7.50**



POSITIVELY None Better Made at Any Price. The "Torrington" Electric Vacuum Cleaner Gives Complete Satisfaction. Price is Right.

ELECTRIC PORTABLES

For library, desk and boudoir. A wide range of attractive designs, handsome finishes and artistic decorations from which you may make your selections and know that the prices are right. Show some samples lighted. Each lamp complete with plug and six feet of cord. NO PACKAGE CHARGE.

LIBRARY TABLE LAMPS

2C3135—Ht. 20½ in., empire gold finish, 12 in. overlaid shade, amber glass, push socket. Each in wood case, 40 lbs. Each, **$7.95**

2C3136—Ht. 21 in., bronze finish, 15 in. overlaid brass gorn shade, amber glass top, green skirt, push socket. Each in wood case, 36 lbs. Each, **$8.25**

2C3139—Ht. [illegible] in., antique brass finish, 15 in. overlaid hexagon shade, amber glass, pull chain socket. Each in wood case, 38 lbs. Each, **$10.25**

2C3142—Ht. 3[illegible] in., bronze polychrome finish, 16½ in. overlaid amber glass shade, 2 pull chain sockets. Each in wood case, 50 lbs. Each, **$11.50**

2C3140—Ht. 23 in., antique brass finish, 15 in. overlaid amber glass, filigree shade, corlac border, 2 pull chain sockets. Each in wood case, 45 lbs. Each, **$11.75**

2C3137—Ht. 22½ in., brush spray gold finish, 17 in. hexagon overlaid amber glass shade, 1 pull chain socket. 1 in case, 36 lbs. Each, **$12.65**

2C3144—Ht. 23 in., ivory finish, 16½ in. mosaic shade, amber green border, 2 pull chain sockets. Each in wood case, 50 lbs. Each, **$12.75**

2C3147—Ht. 23½ in., bronze mild green finish, 15 in. overlaid amber glass shade, sunset border, 2 pull chain sockets. Each in wood case, 50 lbs. Each, **$12.95**

2C3138—Ht. [illegible] in., 17 in. overlaid hexagon shade, amber glass, 1 pull chain socket. 1 in case, 38 lbs. Each **$13.25**

2C3148—Ht. 24 in., antique brass finish, 14 in. octagon panel dome shade, sunset green glass, 2 pull chain sockets. Each in wood case, 55 lbs. Each, **$14.00**

2C3150—Ht. 23 in., bronze polychrome finish, 16 in. floral ornamental, amber glass, sunset border, 2 chain sockets. Each in wood case, 60 lbs. Each, **$15.95**

2C3141—Ht. 25½ in., polychrome finish, 18 in. octagon overlaid amber glass shade, 2 pull chain sockets, 1 in case, 65 lbs. Each, **$16.75**

2C3158—Ht. 24 in., silk shade, fancy panels, finished with old rose lining, shade fringe, ht. 25½ in., base 9 in., 15½ in. mahogany finish, 3 silk cord pull chain sockets. Complete, 1 in case, 10 lbs. Each, **$15.50**

2C3155—Ht. [illegible] in., [illegible] brass finish, 18 in. overlaid amber glass shade, cerise border, 2 pull chain sockets. Each in wood case, 65 lbs. Each, **$18.75**

2C3145—Ht. 24 in., polychrome finish, 20 in. hexagon mosaic overlaid amber glass shade, olive green border, 2 pull chain sockets, 1 in case, 90 lbs. [illegible] Each, **$19.60**

2C3151—Ht. [illegible] in., antique polychrome finish, 18 in. overlaid glass shade, 2 pull chain sockets. Each in wood case, 65 lbs. [illegible] Each, **$20.50**

2C3152—Ht. 24 in., bronze polychrome finish, 16 in. overlaid amber glass shade, 2 pull chain sockets, 1 in case, 75 lbs. [illegible] Each, **$23.50**

LIBRARY TABLE LAMP ASSORTMENT

A variety of choice styles from our regular line.

STAR VALUE

2C3164—3 styles, ave. ht. 23 in., consists of 2C3140, 2C3142 and 2C3147. (For detailed description see these items appearing on this page.) A wonderful variety of styles and finishes at greatly less than regular prices. Reorders can be made from numbers in regular stock. Assd. 3 in wood case, 150 lbs. Each, **$10.75**

(Total [illegible])

BOUDOIR ELECTRIC PORTABLES

Complete with hand decorated glass shades. Unexcelled for gift purposes.

2C3131

2C3132

2C3133

2C3134

2C3131—Ht. 15½ in., empire gold finish, 8½ in. overlaid amber glass shade, push socket. 1 in case, 15 lbs. Each, **$5.75**

2C3132—Ht. 16½ in., rose tinted ivory finish, 9½ in. overlaid sunset glass shade, push socket. 1 in case, 15 lbs. Each, **$6.50**

2C3133—Ht. 18 in., bronze finish, 7½ in. overlaid shade, amber glass top, sunset skirt panels, push socket. 1 in case, 25 lbs. Each, **$7.50**

2C3134—Ht. 17½ in., old ivory finish, 8 in. overlaid round shade, amber top, cerise border, push socket. 1 in case, 20 lbs. Each, **$8.25**

"OUR DRUMMER" will save you time. Its goods are so classified and its pages are so laid out that you can quickly find the goods you want. From the first page to the last it is built to make buying quick and easy for you. Its use will save investment, by making it easy for you to combine many lines in one bill. This also means less freight, less checking, less postage, less labor.

ONE LIGHT ELECTRIC DROPS

No Glassware Included

2C4128 2C4142 2C2994 2C4143

2C4128—Length 5" brush brass finish ornamental heavy cast stem, spun brass canopy key socket and 2¼ in. shade fitter. 1 in pkg. Each **$1.85**

2C4142—Extra heavy figure, hand spun canopy length 36 in. Fine finish will last for years, pull chain socket, spring holder. Either 2¼ or 2¼ in. fitter (state size) 1 in box. . . . Each, **$2.75**

2C2994—Length 21 in. square tubing, may be suspended from ceiling or fitted to side wall as a bracket with 2¼ in. fitter, fancy brass shade finish. 1 in box Each **$2.50**

2C4143—Length 36 in. heavy chain, covered pull chain socket, 2¼ in. fitter. No glassware included. 1 in box . . . . . Each, **$2.80**

COMPLETE PORCH OR CEILING LIGHTS

Also for hall or bedroom.

2C6649—6 in. collar 3½ in. fitter. 6 in frosted cut star ball and porcelain receptacle. 1 in box. Each **$1.95**

2C4195—Brush brass finish, top 6¾ in. wired complete with 7 in. ribbed inside crystal globe. 1 in box Each **$1.75**

1 LIGHT HALL FIXTURES

2C4144—30 in. long 40 in. frosted acorn shaped globe with ribbed design brush brass finish on chain canopy and pull chain socket, 3¼ in fitter 1 in box. Each **$4.50**

DROP CORDS WITH SOCKETS

2C4125 2C4126

Porcelain bushing, 4 feet of green and yellow No. 18 cotton hemp lamp cord and key socket. 1 in box

2C4125—Concealed porcelain rosette Each. **95c**

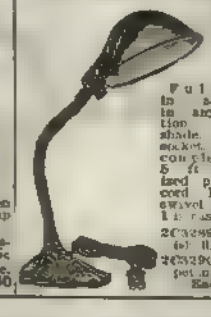
2C4126—Polished brass ceiling plate. Each. **$1.40**

ELECTRIC DESK LAMPS

2C4551 2C3174

2C4551—Ht. 17 in. adjustable at base and socket brush brass finish 6¼ in. white lined green shade threaded and soldered, turns on Benjamin swivel pull, assortment key socket 6 ft. cotton parallel cord 1 in case, 12 lbs. Each. **$3.15**

2C3174—Ht. 26 in. heavy brush brass finish adjustable neck, complete with parabola shade, Benjamin swivel pull and 6 ft. of yellow silk parallel lamp cord. 1 in case, 16 lbs Each **$3.45**



Full ht. 21 in. adjustable in any direction parabola shade. Keyless socket, wired complete with 5 ft. mercerized parallel cord. Each arm swivel pull. 1 in case, 12 lbs.

2C3299—Flemish finish

2C3290—Pompeian finish

Each. **$3.60**

"FLEX-LITE" FLOOR LAMP

A very convenient lamp for reading and fine work. Adjusts to any angle.

2C3870 Electric, ht. 50 in.. Flemish finish adjustable gooseneck, heavy weighted base, wired complete, key socket, 5 ft mercerized parallel cord Benjamin swivel plug 1 in crate. 26 lbs. Each **$4.25**

"WILL YOU FIGHT?"

Is the name of our new booklet that tells how you can help your customers bring down the cost of living and still make your usual profit. Write for this timely booklet. IT'S FREE

FLOOR LAMPS

Choicest offerings of the best manufacturers, selected for QUALITY—but PRICES are RIGHT as well. Shades in a wide variety of up-to-date shapes, designs and color effects. Bases wired complete with iron piping to pass underwriters' inspection. All shades fit any base shown on this page. You may order shades and bases as you wish.

Ht. 6 ft., birch mahogany fancy turned base, two pull chain sockets 26 in. sateen cord, Benjamin pegs, 24 in. all silk shade sateen lining, Japanese figured and shirred panels, 4 in. clean fringe, two rows of beaded trimming around border and top. Choice of old blue shade with rose lining or rose shade with cream lining. Complete in shipping case, 35 lbs.

2C2892—Complete Each. **$19.20**
2C2892A—Base only... " **8.75**
2C2892B—Shade only " **10.95**

"Bansal," ht. 6 ft., birch mahogany two pull chain sockets, 24 in. pure silk cover, rose sateen lining, six Japanese pattern panels and six shirred ruffles with silk tassels, bound with silk braid. Complete in shipping case, 35 lbs.

2C2893A—Base . . . . . Each, **$ 8.75**
2C2893B—Shade . . . . . " **16.50**
2C2893—Complete " **24.95**

Ht. 6 ft., birch mahogany base, two pull chain sockets 26 in. shade made of pure colored silk full size burst and cream silk lining, and cream silk fringe, and inner row shirred chenille tassels and fringe, silk embroidered butterfly in blue green and white on alternate panels. Complete in shipping case 35 lbs.

2C2981A Base . . Each **$10.45**
2C2981B—Shade " **22.50**
2C2981—Complete. . . " **$2 50**

"Mikado" ht. 6 ft. extra heavy birch mahogany two pull chain sockets 26 in. pure silk cover of extra heavy peacock blue with large figured and figured design panels and shirred intersecting panels, silk tassels 4 in. heavy fringe. Each to shipping case 35 lbs

2C 2984A Base . . Each. **$10.95**
2C 2984B—Shade " **19 75**
2C 2984—Complete " **28.95**

Mandarin ht 6 ft. birch mahogany two pull chain sockets 26 in pure silk cover with flower and figured panels, 4 in fringe to match, shade lined in three colors, blue shade with rose trimming, or ecru with blue trimming. Complete in shipping case, about 35 lbs.

2C 2986A—Base . . . . . Each. **$14.50**
2C 2986B Shade . . " **15 50**
2C 2986—Complete . . . " **29.50**

VEGETABLE SLICERS

Plain, Hardwood Frame, 3½ x 8 Ins. Tempered Steel Blade, with Adjustable Clamp Screw and Bolt. Length, Over All, 12½ Ins. Wt., Per Doz., About 7 Lbs.

	Per Dozen
No. 0.....	**$4.00**

Half gross in a box.

MEAT AND VEGETABLE SLICERS

HOTEL SIZE

Slices Meats, Bread, Etc., from Wafer Thinness to ¾-in Thick. Cuts Like Circular Saw. Does Not Mutilate Food Plate Works Automatically. Cast Iron Body, Black Enameled, Gold Decorated. Height, 13 Ins. Length, 27½ Ins. 8-in Circular, Tool Steel Blade. Small Parts Nickel Plated. Self Sharpening.

	Each
No. 50B—Wt., Each, About 50 Lbs.	**$42.00**

One in a wood box. F. O. B. Rochester, N. Y. only

UNIVERSAL

Cast Iron Frame. Knives are of Finest Quality Steel. Instantly Adjusted. Cuts Thin or Coarse by Turning Thumb Nut at End of Shaft. Hinged Lid is Placed Against Vegetables and Holds Them Firmly Against Revolving Knives Until They Have Been Completely Sliced. Capacity, ½ Peck Potatoes Per Minute. Height, Over All, 14 Ins. Length of Cylinder, 6 Ins. Hopper, 5 Ins.

No. 1 and 1½

	Each
No. 1—**Japanned.** Wt. Per Doz., About 10 Lbs	**$5.35**
No. 1½—**Tinned.** Wt., Per Doz., About 10 Lbs ...	**6.40**

One in a crate.

ENTERPRISE

Adapted to Slicing All Different Vegetables, Fruits, Etc. Such as Cabbage, Potatoes, Beets, Turnips, Carrots, Apples for Drying, Pineapples, Cucumbers, Eggplants, Pumpkins, Squashes, Onions, Citron, Rhubarb, Quinces, Melon Rind, Etc. Easily Operated and is a Valuable Kitchen Implement for Hotels, Restaurants. 11-in. Revolving Cylinder. Height, 10 Ins.

	Each
No. 40—Wt., Each, About 28 Lbs...	**$15.00** **$12.50**

One in a crate.

BEEF SLICERS

ENTERPRISE

No. 23

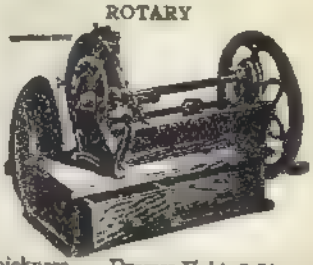
Adjustable to Cut from Tissue Thinness to ¾-in Thick. Blade is Always in Cutting Condition. Cast Iron Frame. Height, 17½ Ins. Length, 19 Ins. 3 x 12-in. Steel Knife.

	Each
No. 23—**Japanned**,.....	$15.00 **$12.00**

Weight, each, about 25 lbs. Loose.

ENTERPRISE

ROTARY



Cuts Any Thickness. Drawer Holds 2 Lbs. of Sliced Beef. Japanned Cast Iron Frame. Varnished, Hardwood Base. Circular Cutting Knife. Length, 30 Ins. Width, 16 Ins. Height, 21 Ins.

	Each
No. 129—**One Blade.** Slices from ⅛ to ¾-inch Thick	$22.50 **$3.00**
No. 126—**Two Blades.** Slices from Tissue Thinness to ¾-in. Thick	22 50 **$3.00**

Weight, each, about 110 lbs. One in a crate

ROTARY GRATERS

ENTERPRISE

No. D2

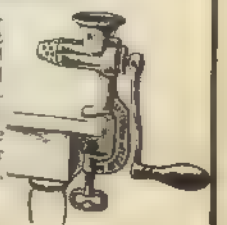
Substantially Constructed of Heavy Block Tin. Easily Taken Apart for Cleaning. No Complicated Parts to Get Out of Order. Height, 16 Ins. Length, 8¾ Ins. Width, 4 Ins. Diameter of Grating Cylinder, 3¾ Ins. Hopper, 2¾ x 2¾ x 2¾ Ins.

	Each
No. D2.....	**$2.50** **$2.50**

MEAT AND FOOD MASTICATORS

ENTERPRISE TINNED

Designed for Use of Invalids, Dyspeptics and Those with Poor Teeth. It Can be Attached to Dining Table at Meal Time, and Meat and Food of Any Kind Run Through on to Dining Plate Thoroughly Chopped Into Fine Particles Before Eating. Warm Food. Heat Machine in Hot Water. Chops 1 Lb. in Three or Four Minutes. Weight, About 1¼ Lbs.



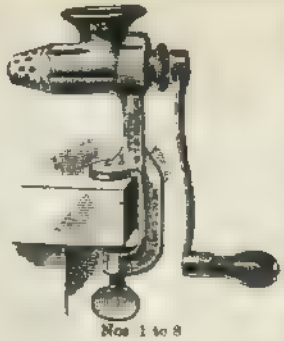
No. 0

	Each
No. 0—**Tinned**	$2.00 **3.20**

One in a cardboard box. One dozen in a case.

MEAT CHOPPERS OR CUTTERS

ENTERPRISE TINNED



Nos. 1 to 8

Nos.	1	2
Chops Lbs. Per Min.	½	1
Wt. Each, Abt. Lbs.	2½	4½
Each	$2.50	2.75
	$4.00	4.50

Nos.	4	6	8
Chops Lbs. Per Mm.	2	3	4
Wt., Each, Abt. Lbs.	5½	8½	12
Each	$3.50	5.00	8.00
	$5.80	8.30	13.30

Half dozen in a case

Tinned, Cast Iron Cylinder, Stand, Hopper, Crank and Spiral Feed Screw. Polished Hardwood Handle. ⅛-in. Holes in Plate. All Working Parts Carefully Milled and Interchangeable.

Small Family Size

Chops 1½ Lbs. Per Min. Wt., Each, Abt. 4½ Lbs.

Each

No. 5 ..... $3.00 $5.00

Large Family Size

Chops 3 Lbs. Per Min. Wt., Each, Abt. 8 Lbs.

Each

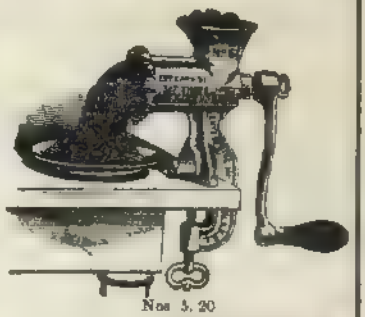
No. 10 . $4.75 $7.90

Butchers' Size

Chops 4 Lbs. Per Min Wt., Each, Abt. 16½ Lbs

Each

No. 20 ... $9.25 $15.35



Nos. 5, 20

STUFFING ATTACHMENTS

With New Patented Corrugated Spout

Fit Chopper with Coarse Knife and Thumb Screw and Over These Screw Attachment to the End of Cylinder Corrugated Spout Prevents Air Entering Casing, Thus Assuring the Preservation of Sausage.

Per Dozen

No. EA1—For Nos. 501 and 502 Chopper $11 00 $18.30

No. EA2—For No. 703 Chopper 13.00 21.65

Loose.

Nos. 12, 32

Small Family Size
Chops 3 Lbs. Per Min Wt., Each, About 9 Lbs.

Each

No. 12 $4.25 $7.05

Large Family Size
Chops 4 Lbs Per Mm Wt., Each, About 14 Lbs.

Each

No. 22 $7.25 $12.05

Butchers' Size
Chops 5 Lbs. Per Mm. Wt., Each, About 22 Lbs

Each

No. 32 9.50 $14.80

Half dozen in a case.

One Plate Only (Standard Size—⅛-in. Holes) with Each Chopper

FOR PORK ONLY

Each

No. 042—Chops 6 Lbs of Pork Per Mm. Wt., 46 Lbs $25 00 $41.50

Three in a case.

Nos. 501 to 703

Fine Knife for Chopping Sausage, Mince Meat, Etc. Medium Knife for Chipping Hash, Codfish, Etc. Coarse Knife for Chopping Tripe, Chicken, Etc. Nut Butter Cutter for Making Butter from Nuts of an Oily Nature.

Chops 2 Lbs. Per Minute.

Each

No. 501—Weight, 4 Lbs. $2.00 $3.00

Chops 2½ Lbs. Per Minute.

No. 602—Weight, 4½ Lbs. 2.50 3.85

Chops 3 Lbs. Per Minute.

No. 703—Weight, 8 Lbs. 3.25 5.00

One in a box, one dozen in a case.

WITH SLIDING BASE PLATE

One Plate Only (Standard Size, ⅛-in. Holes) with Each Chopper

Nos. 105, 132

Constructed with a Base which is to be Stationary on Block or Table Cylinder or Body Being Detachable Enables User to Easily Remove Same for Cleaning or Putting in Ice Box.

Small Family Size

Each

No. 105—Chops 1½ Lbs. Per Min. Wt., 5½ Lbs. . . $3 00 $5.00

No. 112—Chops 3 Lbs. Per Min. Wt., 10 Lbs. .. 4 25 7.00

Large Family Size

No. 122—Chops 4 Lbs. Per Mm. Wt., 15½ Lbs. . . .7.25 $12.00

Butcher's Size

No. 132—Chops 5 Lbs. Per Mm Wt., 23 Lbs. 9.50 $15.80

Half dozen in a case

BAIT

Has Short Crank, a Plate with ⅛-in. Holes, and a Knife with 3 Blades

Each

No. 33—**Tinned** $9.50 $15.80

Six in a case.

No. 33

COFFEE MILLS

ENTERPRISE

Nos 2 to 5

IRON HOPPER

		Each
No. 2—12½ Ins. High. 8½-in. Wheels. Wt., Each, About 15 Lbs. 6 Ozs. Per Minute	$5.50	$9.15
No. 3—15 Ins. High. 10½-in Wheels. Wt. About 22½ Lbs. ¼ Lb. Per Minute	8.25	13.75
No. 5—17 Ins. High. 12½-in Wheels. Wt., Each About 36½ Lbs. ¾ Lb. Minute	12.00	19.95

No 2, half dozen; Nos. 3 and 5, quarter dozen in a case.

NICKEL-PLATED HOPPERS

		Each
No. 2½—15 Ins. High. 8½-in. Wheels. Wt., About 14 Lbs. 6 Ozs. Per Minute	$7.50	$12.50
No. E4 20½ Ins. High. 10½-in. Wheels. Wt., About 22 Lbs. ¼ Lb. Per Minute	12.00	19.95
No. 8—24 Ins. High. 12½-in. Wheels. Wt., About 35 Lbs. ¼ Lb. Per Minute	18.00	30.00
No. E8—27 Ins. High. 17-in. Wheels. Wt., About 59 Lbs. 1 Lb. Per Minute	24.00	39.95

No 2½ half dozen, balance, one in a case

Nos 2½ to E8

NICKEL-PLATED HOPPER

28 Ins. High. 19½-in. Wheels. Wt., Each, About 102 Lbs. Hopper Holds 4½ Lbs.

	Each	
No. E10	$51.50	$62.45

37 Ins. High. 25-in. Wheels. Wt., Each, About 147 Lbs. Hopper Holds 4½ Lbs.

	Each	
No. 210	$45.00	$72.20

Crated one in a box.

IRON HOPPER

43 Ins. High. 31-in. Wheels. Wt., Each, About 211 Lbs. Hopper Holds 6½ Lbs.

	Each	
No. 212	$45.00	$72.20

IRON HOPPERS

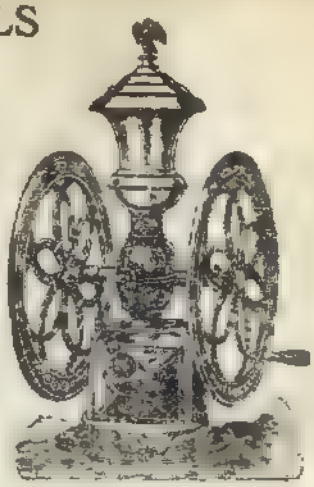
21½ Ins. High. 17-in. Wheels. Wt. Each About 62 Lbs.

	Each	
No. E7 1 Lb. Per Minute	$16.50	$27.50

24 Ins. High. 19½-in. Wheels. Wt., Each, About 107 Lbs.

	Each	
No. E9—Hopper Holds 3 Lbs.	$24.00	$39.95

One in a crate.



NICKEL-PLATED HOPPER

42 Ins. High. 25-in. Wheels. Wt., Each About 128 Lbs. Hopper Holds 7½ Lbs.

	Each	
No. E14	$42.00	$76.10

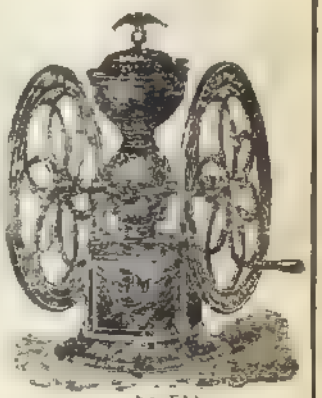
Crated one in a box.

IRON HOPPER

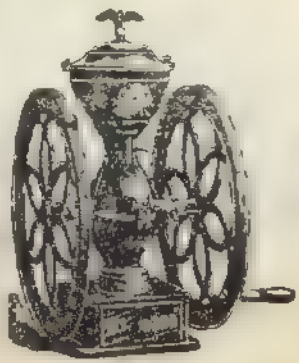
32 Ins. High. 25-in. Wheels. Wt., Each, About 141 Lbs. Hopper Holds 5 Lbs.

	Each	
No. E12	$34.50	$58.55

One in a crate.



No E12



No 209

IRON HOPPERS

33 Ins. High. 25-in. Wheels. Wt. Each About 150 Lbs. Hopper Holds 5 Lbs.

	Each	
No. 209	$36.00	$59.70

One in a crate

ENTERPRISE COFFEE MILLS

No. 214

No. 514

Nickel Plated Hopper

44 Ins. High. 31-in. wheels. Capacity, 7½ Lbs. Wt., 199 Lbs.

Each

No. 214 $52.50 **$87.35**

31 Ins. High. 17-in. Wheels. Hopper Holds 2½ Lbs.

Each

No. 514—Wt., 58 Lbs. $25.50 **$42.45**

No. 214 Packed in two crates and one box, No. 514 in one crate and one box.

No. 714

512

Nickel Plated Hopper

36 Ins. High. 19-in. Wheels. Capacity, 4 Lbs.

Each

No. 714—Wt. 90 Lbs. $33.00 **$54.95**

Packed in One Crate and One Box

Iron Hopper

31 Ins. High. 17-in. Wheels. Hopper Holds 4 Lbs.

No. 512—Wt., 62 Lbs. $22.50 **$37.45**

Packed one in crate and one box.

No. 712

Iron Hopper

36 Ins. High. 19-in. Wheels. Wt., 99 Lbs. Hopper Holds 3½ Lbs.

Each

No. 712. $27.00 **$44.90**

Packed in one crate and one box.

No. 716

Iron Hopper

5 Ft. High. 25-in. Wheels. Wt., 170 Lbs. Hopper Holds 3½ Lbs.

Each

No. 716. $48.50 **$80.78**

Packed in two crates and one box.

No. 718

Nickel Plated Hopper

5 Ft. High. 25-in. Wheels. Wt., 162 Lbs. Hopper Holds 4 Lbs.

Each

No. 718 $54.50 **$64.25**

Packed in two crates and one box.

Iron Hopper

5 Ft. 3 Ins. High. 31-in. Wheels. Wt., 260 Lbs. Capac., 6½ Lbs.

Each

No. 16. $60.00 **$99.88**

Nickel Plated Hopper

5 Ft. 8 Ins. High. 31-in. Wheels. Capac., 7½ Lbs.

Each

No. 18—Wt., 233 Lbs. $67.50 **$112.36**

Iron Hopper

5 Ft. 8 Ins. High. 35-in. Wheels. Capac., 6½ Lbs.

Each

No. 216—Wt., 320 Lbs. $67.50 **$112.34**

Nickel Plated Hopper

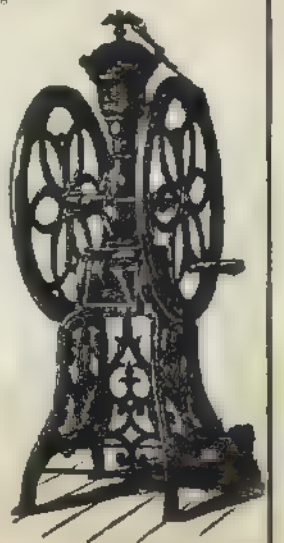
5 Ft. 9½ Ins. High. 35-in. Wheels. Capac., 7½ Lbs.

Each

No. 218—Wt., 307 Lbs. $75.00 **$124.75**

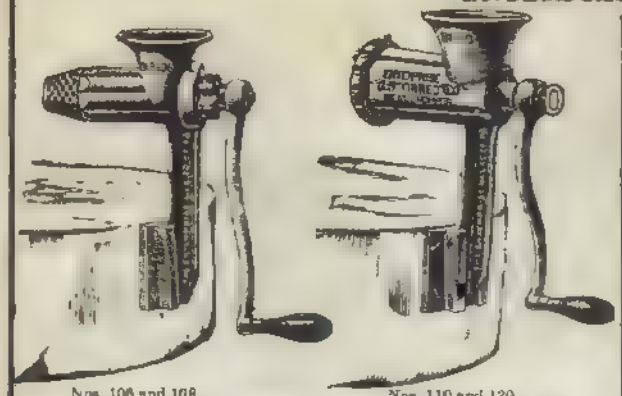
Packed in two crates and one box.

No. 16


No. 216

MEAT CHOPPERS OR CUTTERS

ENTERPRISE TINNED



Nos. 106 and 108 Nos. 110 and 120

Can Readily be Detached from Block or Counter

		Each	
No. 106—Chops 3 Lbs Per Min	Wt, 10 Lbs	$4 50	$7.50
No. 108—Chops 4 Lbs Per Min	Wt, 15 Lbs	8.00	13.25
No. 110—Chops 3 Lbs Per Min.	Wt, 10 Lbs	6.00	10.00
No. 120—Chops 4 Lbs. Per Min.	Wt, 15½ Lbs.	10.00	16.65

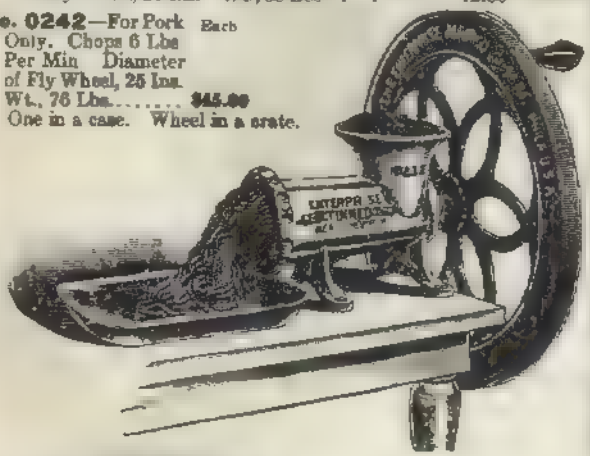
Half dozen in a case.

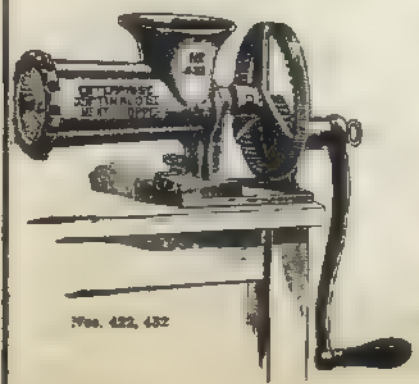
WITH FLY WHEEL

		Each	
No. 222—Chops 4 Lbs. Per Min. Diameter of Fly Wheel, 17 Ins.	Wt, 27 Lbs	$14.00	$23.30
No. 232 Chops 5 Lbs. Per Min Diameter of Fly Wheel, 20 Ins.	Wt, 38 Lbs	12.50	20.80

No. 0242—For Pork Only. Chops 6 Lbs Per Min Diameter of Fly Wheel, 25 Ins. Wt., 76 Lbs. . . . . **$45.00** Each

One in a case. Wheel in a crate.





Nos. 422, 432

WITH GEARS

Chops 4 Lbs. Per Min. Wt., Complete, About 21 Lbs.

Each

No. 422 $12.50 **$18.75**

Chops 5 Lbs. Per Min. Wt., Complete About 32½ Lbs.

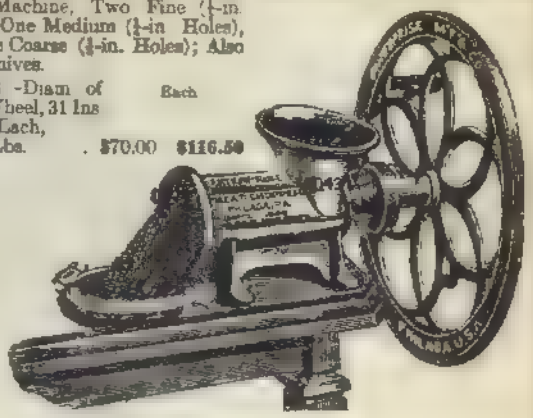
Each

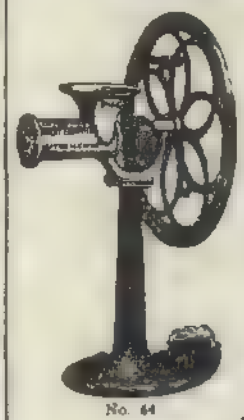
No. 432 $15.00 **$24.90**

Half dozen in a case.

To be Screwed to a Table, Block, Etc. Four Plates with Each Machine, Two Fine (⅛-in. Holes), One Medium (¼-in. Holes), and One Coarse (½-in. Holes); Also Four Knives.

No. 43 -Diam of Fly Wheel, 31 Ins Wt., Each, 127 Lbs. . $70.00 **$116.50** Each





No. 44

Same as No. 43, but Mounted on Column, and Provided with Reversible Gearing which, According to its Adjustment, will Drive Feed Screw Faster or Slower than Crank Wheel. Four Plates Furnished with Each Machine Two Fine (⅛ in Holes, One Medium (¼-in Holes and One Coarse (½-in. Holes); Also Four Knives. Diam of Plate, 5½ Ins. Diam of Fly Wheel, 31 Ins Ht., 4 Ft Width, 2 Ft Wt., 226 Lbs

Each

No. 44. . . . . $100 00 **$166.50**

Packed in one box and one crate

NEW POWER

Crank can be Attached without Disturbing the Pulleys Furnished with Four Knives and Four Plates One Fine (⅛-in Hole), One Standard (⅛-in Hole); One Medium (¼-in Hole); One Coarse (½-in. Hole).

Ht., 11 Ins. Width, 13 Ins Hopper, 6 x 7 Ins. Base 4½ x 4½ Ins. Pulley, 10 x 1½ Ins ⅛- to ¼ Horse-power. Speed, 350 to 400 Revolutions Per Min Capac Per Hour, 100 Lbs. Cut Three Times

Each

No. 612 . . . $17.50 **$28.85**

Ht., 14½ Ins. Width, 16 Ins. Hopper, 6½ x 7½ Ins. Base, 5½ x 6 Ins. Pulley, 13 x 2 Ins. ½ to 1 Horse-power. Speed, 350 to 400 Revolutions Per Min Capac Per Hour, 150 Lbs Cut Three Times Wt., 39 Lbs.

Each

No. 622 . . . . . $22.50 **$38.80**

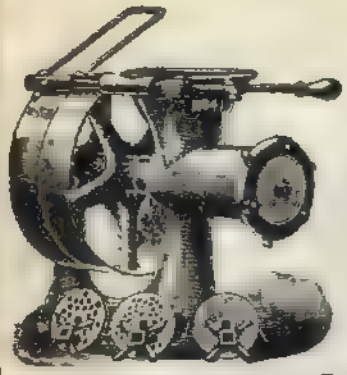
Ht., 13½ Ins Width, 16½ Ins Hopper, 7½ x 9 Ins Base, 7 x 7½ Ins. Pulley, 12 x 2½ Ins. 1 to 2 Horse-power. Speed, 350 to 400 Revolutions Per Min. Capac Per Hour, 200 Lbs Cut Three Times. Wt., 57 Lbs.

Each

No. 632 —One in a crate $30.00 **$51.00**

MEAT CHOPPERS OR CUTTERS

ENTERPRISE TINNED

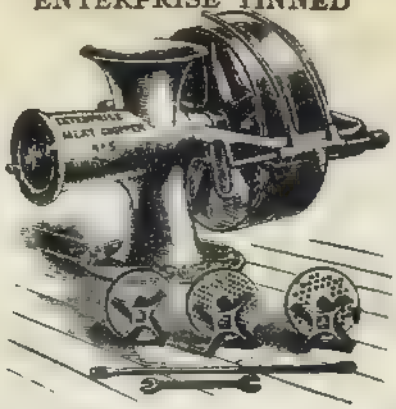


Ht., 16¼ Ins. Lgth, 21 Ins. Diam of Hopper, 9 Ins. Throat, 3 Ins. Plate, 4 Ins. Pulleys, 12 x 2¼ Ins. Speed, 350 to 400 Revolutions Per Min. Power, 1 to 2 Horse for First Cutting of Beef. Capac. Per Hour, 300 Lbs. Cut Three Times.

Each

No. 41—Wt., 93 Lbs. $75.00 $123.75

One in a crate.



Ht., 17½ Ins. Lgth, 27 Ins. Diam. of Hopper, 9½ Ins. Throat, 4 Ins. Plate, 5½ Ins. Pulleys, 16 x 3 Ins. Speed, 350 to 400 Revolutions Per Min. Capac. Per Hour, 500 Lbs. Cut Three Times.

Each

No. 51—Wt., 142 Lbs. ... $110.00 $181.50

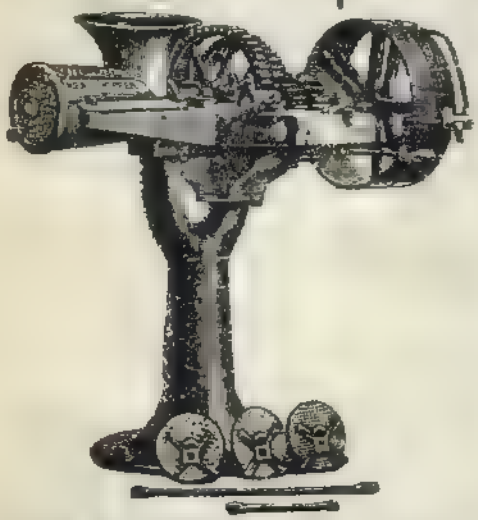
One in a crate.

Ht., 15 Ins. Lgth, 17¼ Ins. Diam. of Hopper, 7¼ Ins. Throat, 3 Ins. Plate, 3½ Ins. Pulley, 12 x 2¼ Ins. Speed, 350 to 400 Revolutions Per Min. Power, ¾ to 1 Horse for First Cutting of Beef. Capac. Per Hour, 150 Lbs. Cut Three Times.

Each

No. 26—Wt., 52 Lbs. $60.00 $84.00

One in a crate.



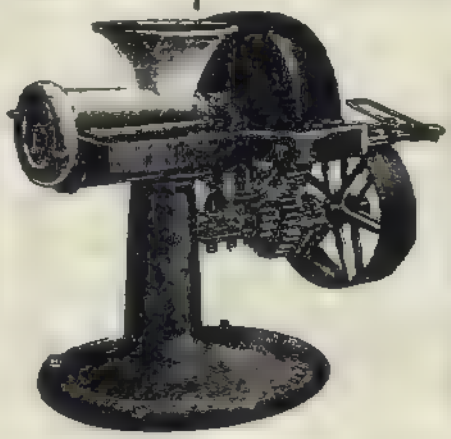
Ht., 34 Ins. Lgth, 32 Ins. Diam. of Hopper, 12 Ins. Throat, 4 Ins. Plate, 5½ Ins. Pulleys, 13 x 2¼ Ins. Speed, 400 Revolutions Per Min. Double Gears Slow Speed, 4 to 1 Fast Speed, 2 to 1. Power, 1 to 2 Horse. Capac. Per Hour, 500 Lbs. of Beef Cut Three Times, 1000 Lbs. of Pork Cut Twice.

Each

No. 52—Wt., 275 Lbs. $200.00 $286.25

One in a crate.

Double thickness of belt must be used.

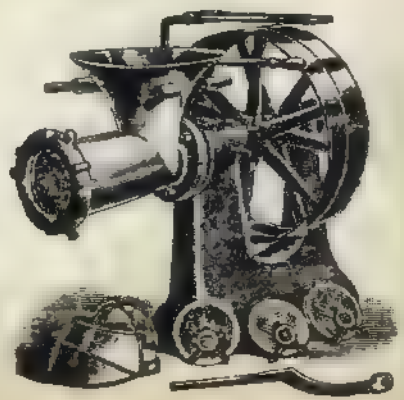


Ht., 42 Ins. Lgth, 46 Ins. Diam of Hopper, 16 ins. Throat, 6 Ins. Plate, 7¾ Ins. Pulleys 20 x 3½ Ins. Speed, 400 Revolutions Per Min. Double Gears, Slow Speed, 4 to 1; Fast Speed, 2 to 1. Power, 2 to 5 Horse. Capac. Per Hour, 1000 Lbs. of Beef Cut Three Times, 2000 Lbs. of Pork Cut Twice.

Each

No. 62—Wt., 800 Lbs. $350.00 $500.50

One in a crate.



Ht., 32 Ins. Lgth. 36 Ins. Diam. of Hopper, 13 Ins. Throat, 6 Ins. Plate, 6 Ins. Extra Heavy Pulleys, 20 x 3½ Ins. Speed, 300 Revolutions Per Min. Power, 5 to 7 Horse. Capac. Per Hour, 750 Lbs. of Beef Cut Three Times; 1500 Lbs. of Pork Cut Twice.

Each

No. 156—Wt., 366 Lbs. $250.00 $444.00

Ht., 37½ Ins. Lgth, 49 Ins. Diam. of Hopper, 20 Ins. Diam. of Throat, 7 Ins. Diam of Plate, 8¼ Ins. Extra Heavy Pulleys, 28 x 4½ Ins. Speed, 200 Revolutions Per Min. Power, 7 to 10 Horse. Capac. Per Hour, 1500 Lbs. of Beef Cut Three Times; 3000 Lbs. of Pork Cut Twice.

Each

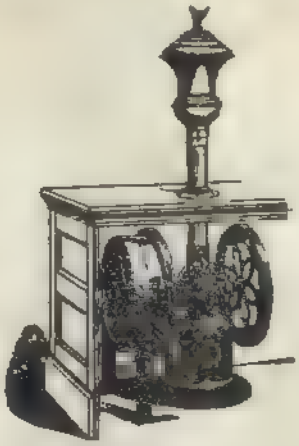
No. 168—Wt., 737 Lbs. $400.00 $683.64

Four Plates with each machine: viz., two ½-in.; one each, ¼ and ¾-in. holes, also four knives.

POWER COFFEE MILLS

ENTERPRISE

Can be Regulated to Grind Coarse or Fine while Running. In Ordering Specify Purpose for which Mill is to be used and How Fine Material is to be Ground.



FOR POWER ONLY

Has Extended Nickeled Tube to Provide for Counters of Different Heights and a Movable Collar for Fastening to Counter Capacity of Nickel-plated Hopper, 7½ Lbs of Coffee

Speed

Granulating, Not Over 200 Revolutions per Minute Pulverizing, Not Over 100 Revolutions Per Minute

Power

Granulating, ¼ Horse, Per 100 Revolutions Per Minute Pulverizing, ½ Horse, Per 100 Revolutions Per Minute. Ht of Mill Only, 23 Ins Width, 17 Ins.

	Each
No. 24—Wt , 155 Lbs Pulleys, 18 x 2 Ins. Packed in two crates and one box	$60.00 **$107.00**

Unless Otherwise Specified, Mill will be Sent with Grinders for Granulating

FOR POWER ONLY

Adapted to Grind Wheat, Corn, Etc., by Windmill or Other Power. Capacity of Iron Hopper, 5 Lbs of Coffee

Speed

Granulating, Not Over 400 Revolutions Per Minute Pulverizing, Not Over 250 Revolutions Per Minute.

Power

Granulating, ¼ Horse Per 100 Revolutions Per Minute. Pulverising, ½ Horse, per 100 Revolutions Per Minute Capac. of Granulating, 2 Lbs of Coffee Per Minute. Pulverising, ½ Lb. of Coffee Per Minute. Ht., 20 Ins. Length, 15 Ins.

No. 050—Wt., 60 Lbs. Pulleys, 10 x 1¼ Ins One in a crate	$30.00 **$51.50**

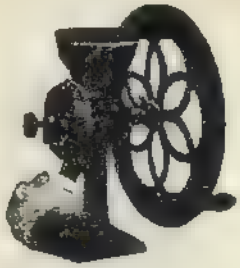
Can be Furnished with Either of Three Styles of Grinders: Granulating, Pulverising and Spice. Unless Otherwise Ordered, Mill will be Sent with Pulverising Grinders.

We Especially Solicit and Pay Particular Attention to Mail Orders

ENTERPRISE MILLS

GRIST

For Grinding Corn, Wheat, Rye, Etc



½ Bu. of Corn Per Hour Ht 12¼ Ins. Lgth, 7⅛ Ins. Width, 5 Ins Dimen. of Throat, 1⅛ x 1⅛ Ins Wheel, 12¼ Ins Diam Wt., 18 Lbs

	Each
No. 50	$3.00 $5.28

1½ Bu. of Corn Per Hour. Ht., 16 Ins. Lgth, 9½ Ins. Width, 5½ Ins. Dimen. of Throat, 2¼ x 1⅛ Ins. Wheel. 17 Ins. Diam Wt., 30 Lbs.

	Each
No. 60	$5.00 $9.35

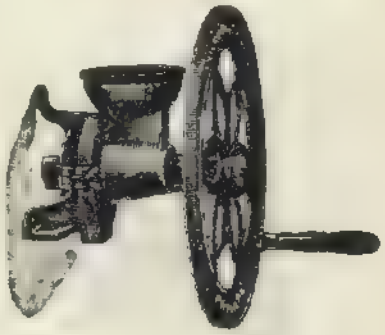
2 Bu. of Corn Per Hour. Ht., 18¾ Ins. Lgth, 12½ Ins Width, 7⅛ Ins Dimen. of Throat, 3½ x 1¾ Ins Wheel, 19½ Ins Diam. Wt., 49 Lbs.

	Each
No. 70	$7.00 $13.20

One in a crate.

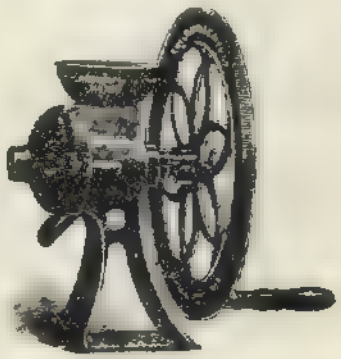
BONE, SHELL, CORN

For Grinding Bones (when Dry Only), Oyster and Other Shells, Corn, Roots, Bark, Grain, Salt, Etc. Not Intended for Grinding "Green Bones," which Can Only be Shaved. Grinders Warranted Equal to Steel, Capacity, 1½ Bushels of Corn per Hour



Ht, 11 Ins. Lgth, 12 Ins. Width, 9 Ins. Dimen. of Throat. 2 x 2 Ins. Wheel, 19 Ins. Diam. Wt., 47½ Lbs

	Each
No. 650	$13.00 $20.80



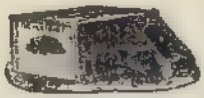
Ht., 17½ Ins. Lgth., 12 Ins Width, 8½ Ins. Dimen. of Throat, 3 x 2 Ins. Wheel, 19 Ins Diam. Wt., 60 Lbs.

	Each
No. 760	$15.00 $24.00

One in a crate.

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

MOUSE AND RAT TRAPS

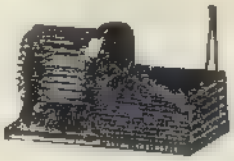


HOUSEHOLD DELUSION PATTERN

Per Dozen

No. 15—For Mice. Self-setting. Blue Lacquered Plain Tin Bottom Length, 5½ Inches. Width, 3¾ Inches. Height, 2½ Inches. Wood Parts Red Finish Weight, Per Dozen, 6 Lbs. $3.50

One dozen in a package.



TOY WHEEL AND CAGE

Per Dozen

No. 20—For Mice. Tinned Wire Wheel. Wood Base Length, 6½ Inches. Width, 3½ Inches. Height, 3¾ Inches. Woven Wire Cage Wood Parts Red Finish. Weight, Per Dozen, 8 Lbs. [illegible]

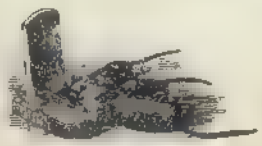
Loose.

ELY'S EASY SETTING

Per Dozen

No. 7—For Rats. Swing Back. 11 Gauge Coppered Steel Wire Spring. Plain Wood Blocks Size, Lower, 3 x 5¼ Inches; Upper, 3 x 3½ Inches. Weight, Per Dozen 12 Lbs $3.20

One dozen in a crate



ERIE

Per Dozen

No. 617—For Rats. Thoroughly Seasoned, Hard Maple Tempered Steel Wire Spring, Tinned; Will Not Rust. Size of Base, 4 x 6 Inches. Size of Upright, 2¾ x 6 Inches. $4.50

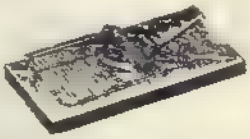
Three dozen in a carton.

ROUND

Per Dozen

No. C4—4 Holes. Size, 4½ Inches. $2.20

One dozen in a package. Weight, per dozen, about 3 lbs.



OUT OF SIGHT (BAITED)

Coppered Steel Wire Spring, Bail and Lever "Baited" Hardwood Trigger, Faced with Tin. All Parts Stapled to Base Bail Overlaps End of Base when Snapped Trigger is Very Sensitive Hardwood Base.

Per Dozen

No. 9—For Mice $1.25

No. 18—For Rats 2.40

One dozen in a display box

OFFICIAL

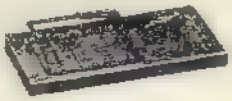
Coppered Steel Wire Spring, Bail and Lever Hardwood Base, Double Action Trigger.

Per Dozen

No. 506—For Mice . . . . . $ .70

No. 507—For Rats 2.30

One dozen in a box.



VICTOR

Coppered Steel Wire Spring, Bail and Lever. Steel Trigger and Plate Trigger is Very Sensitive and the Bait Cannot be Touched Without Springing the Trap.

Per Dozen

No. 30—For Mice . . . . . $ .50

No. 2—For Rats 1.90

One dozen in a box.

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

TRAPS

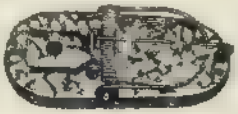
E-Z KETCH

Coppered Steel Wire Spring, Bail and Lever. Galvanized Steel Trigger. Trigger is Sensitive. Galvanized Steel Base. Turned Edges. All Parts Metal.

MOUSE

Size, 4¼ x 2 Ins. Weight, Per Dozen, 1½ Lbs.

Per Dozen
No. 125 . . . . **$.70**



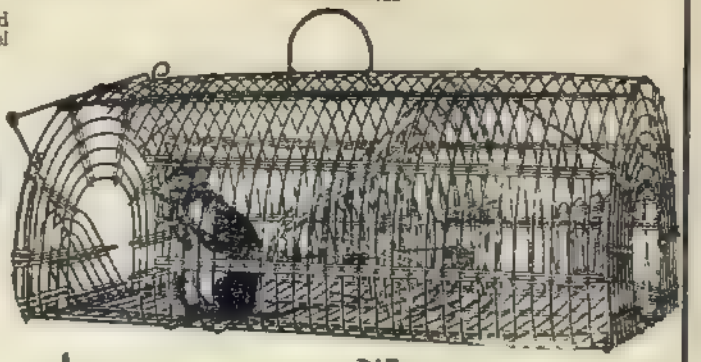
RAT

Size, 7 x 3½ Inches. Weight, Per Dozen, 8½ Lbs.

Per Dozen
No. 250 **$2.00**

One dozen in a box.

CLIMAX



RAT

Made of Mesh Wire that Cannot Be Pushed Aside, Allowing the Escape of Caged Rats. Strong and Durable. Patent Door Eliminates All Danger of Bites from Caged Rats. Lacquered Rust-proof. No. 17 Coppered Wire. Nine Sheet Steel Flanged Ribs

Per Dozen
No. 17C—Size, 17 x 9½ x 7 Inches. **$15.00**
Half dozen in a crate

IT

MOUSE

Bright Sheet Steel. Steel Wire Spring. Coppered Steel Wire Lever. Sensative Steel Trigger Size, 2 x 1½ x ½ Inches.

Per Dozen
No. IT—Weight, Per Dozen, 1½ Lb. . . . . **$ .60**
One dozen in a box.

MARTY'S PATTERN. FRENCH

MOUSE

Size, 8 x 4Ins

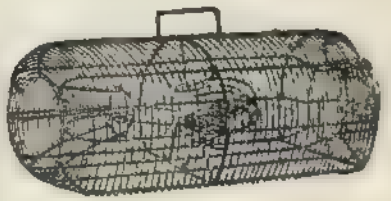
Per Dozen
No. 05 **$7.40**

One dozen in a bundle.

RAT

Size, 16 x 8½ Inches.

Per Dozen
No. 03 **$11.40**



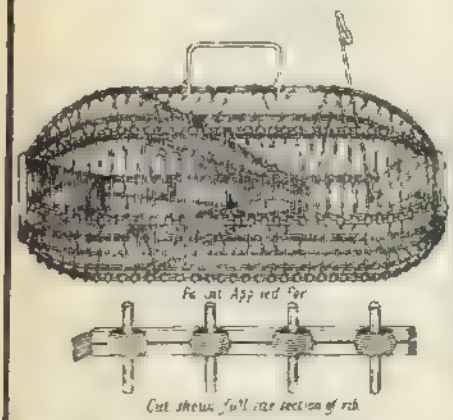
Nos. 05, 03

Loose.

HOLD 'EM

RAT

Strongly Constructed of Coppered Steel Wires. Ribs Made of Two Strips of Metal to which Wires are Securely Fastened. Nose of Trap has Short Wire Extending Down. Prevents Rat from Pulling Down the Trap Door and Escaping. Lacquered to Prevent Rust. Never Gets Broke or Displaced.



Cut shows full size section of rib

Per Dozen
No. W1—Size, 15½ x 9 x 7 Inches **$10.70**
No. W2—Size, 20 x 10 x 7 Inches. **16.00**
Half dozen in a crate.

DOUBLE ENTRANCE GALVANIZED WIRE

MOUSE

Size, 9 x 4 Inches.

Per Dozen
No. 105 **$3.70**

One dozen in a bundle.

RAT

Size, 16 x 8½ Inches.

Per Dozen
No. 103 **$17.40**

Half dozen in a crate.

Nos 105 103

We Especially Solicit and Pay Particular Attention to Mail Orders

POWER HAMMERS

FAIRBANKS, MOTOR-DRIVEN

The Fairbanks Hammer adapts itself readily to an electrical motor drive.

The advantages of a motor-driven hammer which appeal more generally to the purchaser are that the hammer may be located in the most convenient place for use irrespective of main line shaft, and also when not in use no power is consumed.

	O	A	B	C	D	E	F	G	H	I
Weight of Ram, lbs.	25	50	75	100	125	150	200	300	400	500
Size of Base, in.	18¾x28⅝	20⅝x32⅝	21⅛x31¾	22½x34	24x36⅝	26½x38⅛	32x42¾	32⅛x47	35⅝x49⅜	39x53
Floor Space Required, in	18¾x48⅝	20⅝x55¼	21⅛x57	22½x58⅝	24x59½	26½x63⅞	32x70¼	32⅛x74⅜	35⅝x80⅜	39x83
Diameter of Hammer Pulley, in.	10	13	13	14½	15½	16	16⅜	17⅝	19⅝	21
Size of Belt, in.	2	2½	2½	3	3½	4	4½	5	6	7
Average Number Blows per Minute	400	375	350	325	300	275	250	225	200	175
Length of Stroke, in.	7	7	7⅝	8¼	9¼	10	10½	11	11	11½
Adapted to Work Stock, in.	1	1⅜	2	2½	3	3½	3⅝	4¼	5	6
Ht. Foundation to Center of Shaft, in.	63½	65½	68½	71¾	74½	76⅝	79¼	84	88½	90½
Total Height Over All, in.	69¾	73¼	78⅝	79¾	83	85⅝	88⅜	93¾	99½	101½
Horsepower of Motor	½	1	1	1	1	1	1½	1½	10	10
R. P. M. of Motor—Full Load	900	900	900	850	850	850	800	800	800	800
Size of Dies, in.	⅜x5	4⅜x5⅝	4⅝x6⅝	5x7	5x7⅛	6x8	6x8½	6½x8½	7⅛x9⅛	8x10
Approx. Weight of Hammer, lbs.	1850	2300	2775	3100	3700	4400	5400	6400	8300	9800
Approx. Wt. Boxed for Export, lbs.	2050	2600	3000	3400	4000	4800	5800	7000	8900	10 400
Approx. Measurement of Box, cu. ft.	43	50	54	58	72	87	128	164	205	228

HERCULES

Hercules Power Hammers contain all the good features found in the best hammers made. They are strictly up to date and are placed on the market as a strictly tested and guaranteed tool.

Their moderate cost make them an indispensable tool in carriage makers' or blacksmith shops.

The frame and anvil are cast in one solid, coreless piece, giving rigidity, perfect alignment of the dies and solid anvil for the reception of severe and rapid blows.

The position of the dies is such that there is no limit to the length of the bar that can be worked.

The control of the hammers is so perfect that every blow, from a gentle stroke to a rapid succession of mighty blows, is at the will of the operator

The Hammers are double sided and can be operated as well from one side as from the other side

The height of the frame is such that a tire three feet in diameter can be welded.

No. 0—Weight of ram, 30 lbs. Upper dies, 3x1¼ in., lower dies, 3x2 in., for plow work Size of Hammer, 18x25 in. Height, 5 ft. 4 in. Pulley, 9x2½ in. Speed, 400 r. p. m. Capacity, 2 in., square or round. Weight, 1100 lbs. One H. P. required to operate.
. . . . . Each, $. . .

No. 1—Weight of ram, 65 lbs. Dies, 1 set, 2½x3 in , for forging round iron straight or tapering. Size of Hammer, 20x27 in. Height, 5 ft. 8 in. Pulley, 10x2½ in. Speed, 300 r. p. m. Capacity, 2½ in., round or square. Weight, 1400 lbs. Two H. P. required to operate.
. . . . . Each, $ . . .

In ordering Hercules Hammers specify kind of current, whether Direct or Alternating. If Direct, give voltage. If Alternating, give voltage, phase and cycle.

SEATTLE HARDWARE COMPANY

CINCHAS

Soft Cotton With Buckle Tongue

Per Dozen
No. 105—36 in. $8.00

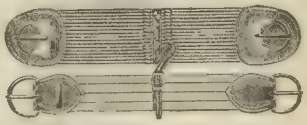
New Idea With Buckle Tongue
Fine Hard Twist Cotton Cord

Per Dozen
No. 1258—58 Strand, Two Fancy Colored Bars..... $11.50

LEATHERED AND CONNECTED

6-inch Mexican Strand White Cotton Front, and 4-inch Back Bans, Web ding Flank Cinchas, connecting Strap sewed to front cinch.

Per Dozen Sets
No. 230 ..... $46.00



6-inch Mexican Strand White Hard Twisted, Cotton Front and 4 inch Belt Webbing Flank Cinchas.

Per Dozen Sets
No. 247..... $57.00

LEATHERED

California Twenty Strand, Hand Spun and Hard Twisted Cotton Leathered, Wool Lined Chafes

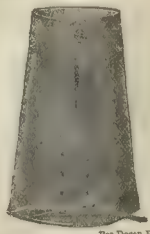
Per Dozen
No. 180½..... $37.00

1½ inch; 58 Strand **New Idea Cotton Cinchs Leathered, Wool Lined Chafes**

Per Dozen
No. 558½..... $33 00

LEATHER CUFFS

Per Dozen Pairs
No. 741—, in. Two Buttons.....$25.00



Per Dozen Pairs
No. 744 7 in. One Button and Laced $28.00

LARIATS

Each
½ in Fine Manila Lariat, 40 ft long, with Brass Hondas. $2 10

STIRRUPS

Per Dozen Pairs

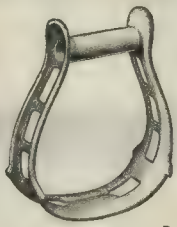
No. 1—Common, 2½ in.; Boy's Size.....$2 00
No. 2—Common, 3 in.; Men's Size.....2.10

Per Dozen Pairs

No. 10—Texas Bolt, 4 in.....$3.50

Per Dozen Pairs

No. 14—Oxbow, 2 in.....$4.50



Per Dozen Pairs

No. 806—XC Iron, 3 in. Neck.....$14.00

Per Pair

No. 40—Visalia, Brass Bound, 2½ in., Men's Size.....$1.50

2 in.; Heavy Brass Bound, 3 in. Neck, Leather Neck and Toe Piece; Moran Pattern.

Per Pair

No. 277.....$4.00

Malleable Iron, 3 in., Neck; Full Leather Covered; Plain Machine Stitched.

Per Pair

No. 423.....$3 60

HOSE COUPLINGS

AUTOMATIC, Expansion Ring, Couplings

Size Hose, In	1½	2	2½
Weight Per Pair, Lbs	1½	2	4
Per Pair	$2.00	2.50	3.00

When ordering, send Sample Coupling or Hydrant Cap and piece of Hose; Carried in Iron Pipe and Standard Hose Pipe Thread

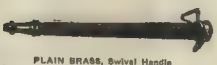
BRASS EXPANSION RINGS

Size Hose, In	1½	2	2½
Per Dozen	$3.00	3.00	3.00

AUTOMATIC GASKETS

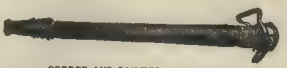
Size Hose, In	1¼	2	2½
Per Dozen	$....	....	....

HOSE PIPES



PLAIN BRASS, Swivel Handle

Size Hose, In	2	2½
Length, In	20	20
Weight Each, Lbs	6	7
Each	$7.50	11.00

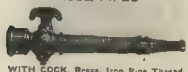


CORDED AND PAINTED, Swivel Handle

Size Hose, In	2	2½
Length, In	20	20
Weight Each, Lbs	6	7
Each	$9.00	12.00

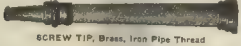
In ordering, send Sample of Coupling showing Style of Thread wanted

HOSE PIPES



WITH COCK, Brass, Iron Pipe Thread

Size Hose, In	¾	1	1¼	1½	2
Length, In	8	8	12	12	20
Weight Per Dozen, Lbs	7½	9	26	30	84
Per Dozen	$14.20	18.00	43.00	60.00	112.00



SCREW TIP, Brass, Iron Pipe Thread

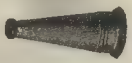
Size Hose, In	¾	1	1¼	1½	2
Length, In	7½	8½	12	12	20
Weight Per Dozen, Lbs	5¾	7	17	23	52½
Per Dozen	$9.20	11.20	21.20	27.50	63.00

HOSE VALVES

No. 65—Rough Body, Chicago Pattern, Iron Handle, Loose Swivel and Leather Disc, Iron and Hose Pipe Thread

Size Pipe, In	1	1¼	1½	2	2½
Each	$2.15	3.70	4.75	7.00	8.50

HOSE NOZZLES



TO SCREW, Brass, Iron Pipe Thread

Size Hose, In	¾	1	1¼	1½	2
Length, In	3	4	4½	5½	6½
Per Doz	$5.00	6.25	12.75	19.75	25.00

COMMON HOSE SPANNERS

Size Hose, In	1½	2	2½
Length, In	9	10	11
Per Dozen	$1.60	2.40	3.00

HOSE RACKS

Send for Special Catalog of Hose Carts, Aerial Ladders, and Apparatus

If your Fire Department wants Hose Let us Help You Secure the Order

SWINGING

Rack is Furnished with Clamps for Fastening to Stand Pipe; or with Wall Plates or Brackets, at Same Price. Aluminum Finish, Same Quality as the U. S. Wall Boxes

FOR UNLINED LINEN HOSE

No.	Size of Hose	Full Capacity	Each
9	For 1¼ or 2 in.	50 Feet	$5.00
10	For 2½ in.	50 Feet	5 00
11	For 1½ or 2 in.	100 Feet	5 00
12	For 2½ in.	100 Feet	6.00
13	For 1½ or 2 in.	150 Feet	7 00
14	For 2½ in	150 Feet	7 00

FOR RUBBER-LINED MILL OR FIRE HOSE

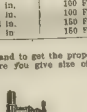
No.	Size of Hose	Full Capacity	Each
13	For 1½ or 2 in	50 Feet	$7.00
14	For 2½ in	50 Feet	7 00
15	For 1½ or 2 in	100 Feet	7.50
16	For 2½ in	100 Feet	8.00

Nos 15 and 16 will Carry Heavy Hose of almost any Make, in 50 ft Lengths

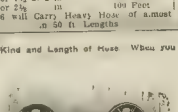
Average Weight 18 Lbs. Each

Notice—To avoid mistakes and to get the proper "Rack" when you order, give Size, Kind and Length of Hose When you order Racks with "Pipe Clamps" be sure you give size of pipe they are to fit.

HOSE REELS



Wound on 12 in. Spool



SWINGING, for Unlined Linen Hose

Nos.	130	140	150	160
Size Hose, In.	1½	1½	2	2½
Capacity, Ft.	50	50	50	50
Each	$6.00	6.00	6.50	7.00

STATIONARY, for Rubber Lined Hose

Nos.	70	80	90	100	170	180
Size Hose, In.	1½, 1½	2	2½	1½, 1½	2	2½
Capacity, Ft.	50	50	50	100	100	100
Each	$6 00	6 50	7.00	7.50	8.00	9.00

HOSE REELS

SWINGING, for Lined or Unlined Hose

Most Substantial and Reliable, Strongly Built, Will Swing Flat Against Wall

Nos.	10	20	30	40	50	60
Size Hose, In.	1¼, 1½	2	2½	1¼, 1½	2	2½
Capacity, Unlined, Ft.	175	150	150	250	250	275
Capacity, Lined, Ft.	50	50	50	100	100	100
Each	$6.00	6.50	7.00	7.50	8.00	8.50

FIRE EXTINGUISHERS

HICKORY

Approved by the National Board of Underwriters

Works Automatically, Tested and Guaranteed to Stand 300 Lbs. Pressure; Highly Polished. Cylinder, Dome and Bottom made of Heavy Copper, with Seams and Connections heavily re-inforced with solder. Bottom is lock-jointed; Inside is Coated to prevent Corrosion

Each

Hickory -Capacity 3 Gallons. Height 22 in Diameter 7 in ; Complete with 16 in Rubber Hose with Nozzle.....$12.00

Weight Each, Empty, About 16 Lbs

Extra Charges, per Dozen..... 8.00

FISHING REELS

This varied showing of fishing reels enables any merchant to select whatever kind he need... [illegible] ...perfect reel are made ... materials by ... who ... in this particular line. Customers who appreciate the real values in every number shown.

POPULAR FISHING REELS

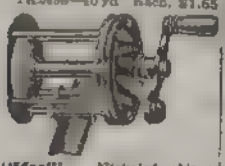
Single Action Nickel Plated ... [illegible] ... Temp. Out

"Climax"—Nickeled, milled plates, adjustable click and drag, balance handle, 3 revolutions of spool to 1 of handle. 1 in box

1K2400—40 yd Each, $1.25
1K2401—80 " " 1.50
1K2402—80 " " 1.75

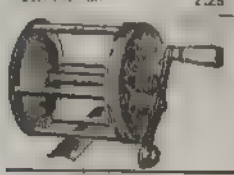
Single Action Wood rubber plates, milled edges, balance ball, adjustable click, oil cup. 1 in box

1K2499—40 yd Each, $1.65



"Ideal" — Nickeled plates, milled sides and edges, 1¾ in pillars, adjustable click and drag, oil cup balance ... [illegible] ... 1 in box

1K2500—40 yd $2.00
1K2501—60 " 2.25



"Simplex" Kentucky pattern, wood spool, full nickeled gun metal, blued finish, full bearing axle. Genuine agate mounted oil cups, adjustable click and drag balance handle, welded reel seat, splendid casting reel. 1 in box

1K2375—80 yd. Temp. Out

"Special" Multiplying — Kentucky pattern, 2 in pillars, nickeled plates, milled sides and edges, ... [illegible] ... click and drag, walnut handle 1 in box

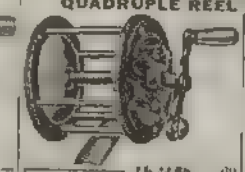
1K2409—60 yd Each, $2.50
1K2410—80 yd Each $2 75

"Cascade" — Kentucky pattern, 2¼ in. pillars, quadruple steel pivot, axle and pinion, nickeled plates, oil cups each side, walnut balance handle, smooth and free running. 1 in box

1K2495—60 yd Each $3.25

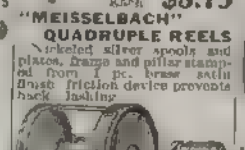
"Professional" —Satin finish milled plates, wide Kentucky pattern, 2¼ in. pillars, adjustable click and drag, steel pivot, axle and pinion, oil cups each side, balance handle, welded seat, free running. A fine casting reel 1 in box

1K2506—60 yd Each, $3.50
1K2507—80 yd. Each $3.75



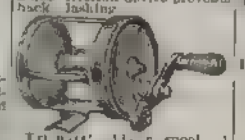
STAR VALUE

1K2485—60 yd nickel silver spool, ... [illegible] ... click and drag, ... [illegible] ... Each, $3.75

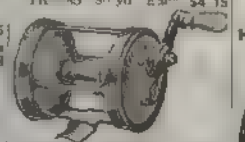


"MEISSELBACH" QUADRUPLE REELS

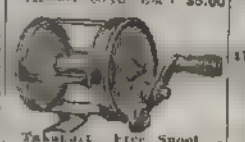
Nickeled silver spools and plates, frame and pillar stamped from 1 pc. brass satin finish friction device prevents back lashing



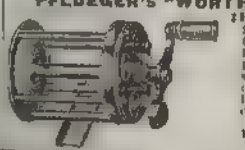
Tri pair 1¼ in spool 1 ... [illegible] ...
1K2485 80 yd Each $4.15



Tak-apart 1¼ in spool ... [illegible] ...
1K2486 60 yd Each $5.00



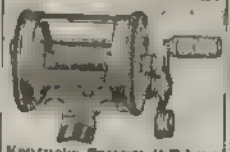
Tak-apart Free Spool ... [illegible] ... cup adjustment 1 in box
1K2487 60 yd Each $6 26



PFLUEGER'S "WORTH" CASTING REEL

1K2270 ... [illegible] ... finish, wide Kentucky pattern, 2¼ in pillars, jeweled balances, steel pivots and pinions, adjustable click and drag, nickeled silver throughout, welded seat, balance handle genuine agate jewel of ... [illegible] ... with a ... [illegible] ... 1 in box Each Out

"MEEK" QUADRUPLE REELS



Kentucky Pattern "Blue Grass Simplex" Nickeled brass and nickel silver throughout, 2¼ in pillars, steel pivots and pinion and gear, sliding click and drag, ... [illegible] ... 1 in case

1K2390—Mfrs 38 175 yds. Each Out

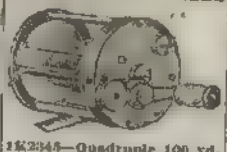
Improved "Blue Grass Take-apart"—Nickel silver 1¾ in spool, Stub's steel pinion and gear, sliding click, take down construction. 1 in case.

1K2491 Mfrs 25 85 yds Each, Out

HEDDON'S NO. 3-15 REEL

1K2390—150 yd, 2 in. discs, hard drawn, watch nickel frame, Stub's drill steel rod ... [illegible] ... pinion, shaft and studs, ... [illegible] ... Each $11.00

SOUTH BEND ANTI-BACK-LASH REEL

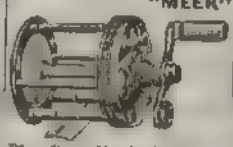


1K2345—Quadruple 100 yd. French gray satin finish, large cap jewels smooth ... [illegible] ... click and drag ... [illegible] ... the right ... [illegible] ... but which holds ... after casting ... by pressing back ... [illegible] ... Each $9.25

SOUTH BEND LEVEL WINDING ANTI-LASH REEL

1K2344—Quadruple multiplying gear (100 yd.) ... [illegible] ... agate jeweled screw ... [illegible] ... Each $18.50

"MEEK" REELS



Blue Grass No. 3—Quadruple nickel silver sliding click and drag, offset oil cups, spiral gears, tempered tool steel pivots and axle, 2 in plates. 1¾ in. spool

1K2392—Cap 120 yds No 5 line..... Each, Out

"Meek" No. 3—Quadruple nickel silver sliding click ... [illegible] ... oil cups, spiral gears, tempered steel ... [illegible] ... 1¾ in spool

1K2580—Cap. 120 yds No 5 line Each $22.00

PFLUEGER'S "SUPREME" ANTI-BACK-LASH REEL

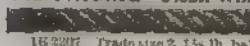
1K2340—80 yd Anti-back lash ... [illegible] ... winding a preferred ... [illegible] ... the ... [illegible] ... made ... [illegible] ... polished ... [illegible] ... oiler and screw driver, in chamois bag in hand sewed leather reel case Each Out

OPPORTUNITY knocks at every merchant's door—not once, but EVERY MONTH in this catalogue in the form of thousands of big values. Watch these excellent opportunities and your business will be THE GAINER

FISHING LINES & SEINES

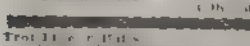
Made by experts under careful supervision. Materials used in the making of these lines and seines have been selected for their strength and dependability. This showing includes numbers of proven worth and are ... [illegible] ... as the most popular ... today. You ... to a profitable business with a representative stock bought here.

FIRST QUALITY TROT LINE AND STAGING—Clean White Stock

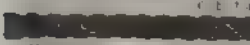


1K2207 Trade size 2, 1½ lb ball, contains approx. 100 ft. ... Lb 90c
... 1 lb ... 84c

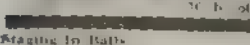
1K2208 Trade size 4 ... lb ball, contains approx. 50 ft. ... Lb 90c
... 1 lb ... 84c



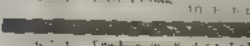
Trot Lines ...
... lb ball, contains approx. 100 ft ... Lb 92c
... 1 lb ... 85c



1K2209 Trade size 9, 1 lb ball, contains approx. 100 ft. ... Lb 92c
... 1 lb ... 85c



Staging in Ball ...
1K2210 Trade size 12, 2 oz. ball, approx. 150 ft. 5 lbs to bag ... Lb 95c
... 10 lbs ... 87c

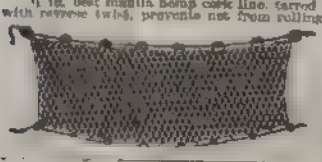


... Trade size 4 ... 4 oz ball, approx. 65 ft. ... Lb 95c
... 1 lb ... 87c

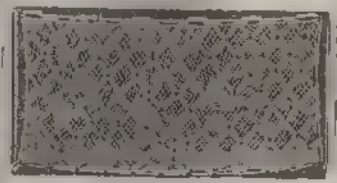
HAULING OR DRAG SEINES

... in. best manilla hemp cork line, tarred with ... twist, prevents net from rolling when dragged through water. Each wrapped.

	Length	Size	Depth	Mesh	Twine	Each
1K2820	30 ft	1	1	in	No 9	$ 3.00
1K2821	50 "	3	1	"	" 9	4.95
1K2822	60 "	6	1	"	" 12	7.35
1K2823	75 "	6	1	"	" 18	6.85
1K2824	75 "	6	1	"	" 12	9.25
1K2825	60 "	6	1	"	" 12	11.05
1K2826	60 "	8	1	"	" 12	16.60
1K2827	60 "	8	1	"	" 18	17.25
1K2828	75 "	8	1	"	" 18	21.50



TRAMMEL NETS



Small mesh hung loosely between tightly drawn webs of large mesh. Fish ... small ... [illegible] ... mesh forming a pocket in which they are caught. Complete with leads and floats, ready for use. Each wrapped.

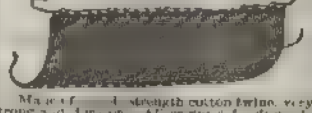
	Length	Size	Outside Depth	Inside Mesh	Inside Twine	Each
1K2835	30 ft	5 ft	5 ft	1 in	25	$ 6 25
1K2836	40 "	8 "	8 "	1 "	25	8.00
1K2837	50 "	8 "	8 "	1 "	25	10.55
1K2838	50 "	6 "	8 "	1½ "	25	10.00
1K2839	60 "	6 "	8 "	1½ "	25	11 95
1K2875	75 "	6 "	8 "	1 "	2	17.85
1K2876	100 "	6 "	8 "	1½ "	18	20 50
1K2843	150 "	6 "	8 "	1½ "	18	30 75

"COMMON SENSE" MINNOW SEINES

... [illegible] ... with full number of leads and floats, ... [illegible] ... 4 feet long and ... [illegible] ... each wrapped in a bag.

1K2800	4 ft. long	Doz. lots	$ 6 75	$0 60
1K2801	6 "	" " "	8.50	.85
1K2802	8 "	" " "	12.50	1.15
1K2803	10 "	"		1.35
1K2804	12 "	"		1.60
1K2805	15 "	"		2.00
1K2806	20 "	"		2.50
1K2841	25 "	"		3.50

"SHUR-CATCH" MINNOW SEINES



Made of ... strength cotton twine, very strong and ... 4½ meshes 4 ft. deep, ... with lead and float wrapped

1K2884—10 ft. long	.....	Each $1.30
1K2885—13 "	"	" 1.65
1K2886—16 "	"	" 2.35
1K2887—20 "	"	" 2.85

SQUARE DIP NETS

... lb square mesh No 6 ... cord ... sewed edges, rope at corners. Frame not ... 1 to pkg

1K2855 ...	Each $0.90
1K2856 ...	1 65
1K2859—No8	2.75

"L. D. L." LANDING NET—With Frame

1K2411—30 in handle, 24 in spring steel collapsible frame ... [illegible] ... with brown net. Each in cloth bag.
Each $1.50

GEE'S IMPROVED MINNOW TRAP

1K2704—17½x9, galvanized wire mesh, ... at center, funnel shaped entrance each end, minnows can get in but not out. Simply bait and set.
Each $1.15
Lots of 6 " 1.05

CAMPERS' GOODS

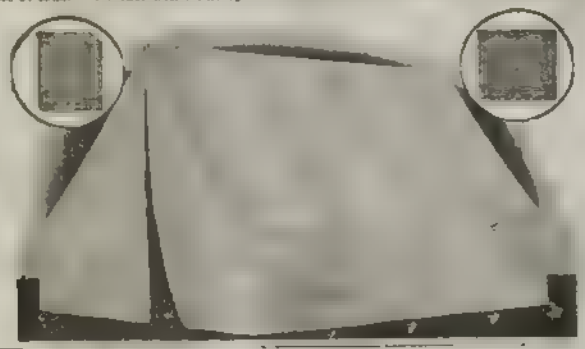
This line of campers' goods includes only proven sellers, selected for their dependability and established merits. Our five-house buying power makes it possible for us to have a large stock on hand at all times and to be able to offer these goods at the lowest possible prices. Make BUTLER BROTHERS your source of supply for campers' goods.

"RELIANCE" WALL TENTS AND TENT FLIES

In Stock Ready for Shipment

This grade is generally made elsewhere of 36 in. duck, marked 10 oz. and 12 oz. "Reliance" brand are made of standard 29½ inch duck 8 oz. and 10 oz. marked 10 and 12 oz. A piece of duck 29½ inches wide 36 inches long is the same weight per square foot as 10 oz. and 12 oz. duck 36 inches wide and 36 inches long. Buy here and you will be sure that you do not pay for 10 oz. 29½ inch goods and get 10 oz. 36 in. goods.

Note—We can furnish any grade, size or style of tent not listed with a delay of about 10 days. We will quote prices upon application. Cancellation will not be accepted 3 days after date of order. Neither will we accept the return of tents which have been made to order.



"Reliance" Wall Tents—High grade white duck closely woven, corners and eaves doubled, sewed and reinforced, seams felled and double stitched. Sewed in grommets.

Full 6½ Ft. Center, 3 Ft. Side Wall—

	Size	Wt. of duck	
1K1541—	5x7	12 oz.	Each, $17.85
1K1542—	7x9	10 "	" 18.15
1K1544—	7x9	12 "	" 21.80
1K1546—	8x10	10 "	" 20.50
1K1547—	8x10	12 "	" *21.00

Full 7 Ft. Center, 3 Ft. Side Wall—

1K1549—Size 9 ft. 4 in. x 11 ft. 8 in., wt. of duck 12 oz. . . . Each, $25.75

1K1550—Size 9 ft. 4 in. x 11 ft. 8 in., wt. of duck 12 oz. . . . Each, *27.50

Full 7½ Ft. Center, 3½ Ft. Side Wall—

	Size	Wt. of duck	
1K1553—	12x14	12 oz.	Each, *38.50
1K1556—	12x16	12 "	" 47.75
1K1558—	12x18	10 "	" 43.75
1K1559—	12x18	12 "	" 52.00

Full 8½ Ft. Center, 4 Ft. Side Wall—

	Size	Wt. of duck	
1K1561—	14x16	10 oz.	Each, $46.75
1K1563—	14x16	12 "	" 57.25

"Reliance" Tent Flies—An extra removable roof which is spread over the regular roof, giving double protection from sun and rain. Serves as roof for old tents. Same high grade material goes into their construction as that used in "Reliance" tents.

	Size	Wt. of duck	
1K1717—	8x10	12 oz.	Each, *10.50
1K1718—	10x12	10 "	" 12.65
1K1719—	0½x12	12 "	" *13.75
1K1720—	12x14	10 "	" 17.80
1K1721—	12x14	12 "	" *19.25

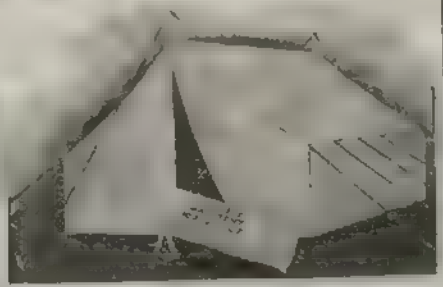
	Size	Wt. of duck	
1K1722—	12x16	10 oz.	Each, $16.85
1K1723—	12x16	12 "	" 23.65
1K1724—	12x18	10 "	" 21.80
1K1726—	14x16	10 "	" 23.90
1K1727—	14x16	12 "	" 26.75

"STORM KING" TENTS

Wind and rain proof. Specially treated duck roof, rain proof and acts as a preservative as well. Note the eaves feature. Complete in canvas bag with ropes, poles, stakes, etc.

1K1570—	9 ft. 4 in. x 11 ft. 8 in.	Each, $30.50
1K1571—	12x14 ft.	" 41.50
1K1572—	14x16 "	" 59.00

"JIFFY" POLELESS AUTO TENT



1K1575—7x9, warranted waterproof, just the thing to carry in an automobile, is light strong and durable made from 29 in. Army duck, 8 oz. double filled used in all large circus tents, fitted with a 24 oz. webbing ridge, three piece collapsible end pole, guaranteed full size. Complete with rope, stakes, etc. Each in khaki bag. Each *23.75

"BOY SCOUT" TENT

1K1540—8 oz. khaki duck, base 7x7 ft. center ht. 6 ft. 6 in., side walls 3 ft., reinforced eaves and top, sewed-in grommets, brass grommets at bottom. All seams taped and double stitched. Complete with ropes, poles and stakes. First class workmanship and material throughout. Guaranteed full wt. and size. Each easily set up or taken down and folds into small pkg. Each in burlap ready for shipment. . . . . Each $8.25

AUTO TOURING TENTS

Especially designed for automobile touring parties for use as sleeping quarters. Made from genuine army tent, very light, closely woven. Will turn rain and give protection from the weather. No poles required, fastens to automobile top, can be set up in a very few minutes. The side next to the automobile is closed up completely, prevents rain from dripping. Complete in waterproof bag with stakes and ropes.

1K1575—	7x7, fits Fords and all 5 passenger cars	Each, $19.50
1K1576—	7x9, for larger cars	" 21.50
1K1578—	7x7, for larger cars, heavy khaki army twill	Each $21.50

TEPEE PLAY TENT

1K1850—5x5 ft. ht. 5 ft., khaki color drill, side walls stenciled Indian designs, fancy painted Turkey red reinforced top. Complete with 4 stakes. 1 in pkg. . . . Each $5.25

"COMMON SENSE" OPEN AIR TENT HOUSES

Shipped direct from factory in Central Iowa, allow 10 days to 3 weeks for delivery

For sleeping and living in the open air, camping, hunting, fishing and automobiling, quickly set up or collapsible and packed into convenient bundles. Shutters which can be in many positions may be adjusted for any kind of weather. May be entirely screened by simply attaching to the cypress frame mosquito netting or common screen wire. Stands up under very hard winds because of the guy wires from the roof cover to be staked to the ground. Baseboards may be staked or sunk in the ground, thus shutting out insects and water may be shoveled in a farm spade floor. Invaluable for sleeping in hot weather by keeping open on all sides for the cool air while shutting out the mosquitoes. Ventilation can be regulated by means of cords. Cypress frame finish in natural with chocolate ends, shutters. Height of walls 5 ft. 6 in. Walls and shutters covered with 8 oz. white duck. Roof of 10 oz. D. F. white duck.

1K1804—	7½x 6 ft., wt. 120 lbs.	Each $ 49.50
1K1805—	7½x 9 " " 140 "	" 57.00
1K1806—	7½x12 " " 185 "	" 74.50
1K1807—	9 x12 " " 235 "	" 89.50
1K1808—	12 x12 " " 245 "	" 119.00
1K1809—	9 x18 " " 275 "	" 136.50

"RELIANCE" BRAND PLAIN WHITE CANVAS PAULINS

For covering harvesters, automobiles and wagons, can also be used for halls, dancing floors etc. Each in canvas bag complete with ropes and eyelets. Guaranteed full 12 oz. to sq. yd.

1K1810—	7x7 ft.	12 oz.	Each $ 7.35
1K1811—	7x9 "	12 "	" 12.85
1K1812—	7x14 "	12 "	" 13.15
1K1813—	9x18 "	12 "	" 18.15
1K1814—	14x24 "	12 "	" 28.90
1K1815—	10x30 "	12 "	" 28.10
1K1815—	10x30 "	12 "	" 42.50
1K1819—	18x24 "	12 "	" 36.25
1K1816—	20x24 "	12 "	" 39.50

"BEST YET" FOLDING CAMP COT

1K1893—6 ft. 3 in. x 2 ft. 3 in. bed, selected hardwood frame, natural finish, 14 gauge metal braces, guaranteed 1 oz. double filled brown duck, water and vermin proofed, folds into compact package, wrapped. 15 lbs. Each $4.25. Doz. lots, Doz. $48.00

TELESCOPE FOLDING CAMP COT

1K1883—30x75, hardwood frame reinforced and riveted steel braces, will support 800 lbs., can be set up in 1 minute, 12 oz. double filled brown water and vermin proofed canvas, folds compactly to 34x7x5. 15 lbs. Each *4.65. Doz. lots, *52.50

FOLDING STOOL AND CHAIRS

Solid construction, properly assembled, not slapped together as some goods are being offered.

Canvas Seat—Folding hardwood frame, 10 oz. cas canvas seats, 30 in. heavy legs, special method of attaching cloth prevents pulling out, each perfectly made. 1 doz. in crate.

1K1891—	Stool	Doz. $4.50
1K1895—	Chair	" 6.50

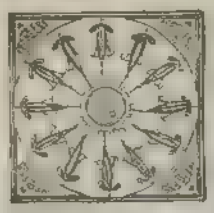
1K1891

Carpet Seat Chair—Varnished hardwood frame, heavy carpet seat, strong back rest, substantially made.

1K1890 1 doz. in crate. Doz. $15.00

1K1890

"PEERLESS" WOOD MINNOW ASST.



1K2700—Plain white, red and green backs 2¼ in. enameled lt. wt. wood bodies nickel plated head spinner, 3 gangs of treble hooks 1 doz. on card in box . . . Doz $1.85

"IDEAL" FISHING FLOAT ASSTS.

Patented locks the line, does away with wire and eye shapes . . . work assorted floats.

PATENTED FEATHER LOCKS LINE

1K2462 — Asstd. finishes, twelve each, 3 in. barrel shaped and 1¼ in. egg shaped floats 2 doz. in box
Doz $1.00
Total $2.00 Gro $11.25

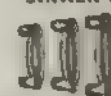
1K2465 — Asstd. finishes twelve each 3 in. barrel shaped and 1¼ in. egg shaped. 2 doz. in box
Doz $1.50 Gro $16.50

SINKERS

Ringed, smooth finish brass rings, asstd. sizes. 1 gro. in box

1K2475—Asstd trade sizes 10 to 18 . . . . . Gro. 85c
1K2470—Asstd trade sizes 8, 9 and 10 Gro. $1.75

BASS CASTING SINKER ASST.



1K2482 — Quick attaching, slotted center for line, ears on both ends fold down and hold line tied. 1 gro. in box Asstd. sizes 1, 2 and 3
Gro. 85c

WILSON "GOOD LUCK" WOBBLERS

Semi-surface bait, 4 in. waterproof enameled cedar body fluted head, hung with 2 under body and tail gang treble hooks floats until reeled in when it runs about a foot under water with jerking motion . . . doz. in box

1K2745—White with red head
Doz $6.00

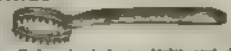
1K2746—Yellow with red head
Doz $6.00

TACKLE BOX

1K2311 — 11 in. x 6 in. x 6 in. high, heavy gauge steel, hard japan finish, inside measurements 11x . . . . . and two . . . . . furnished with two trays . . . in box
Temp. Out

FISHING SUNDRIES

Cooper Snaps and Swivels—Steel wire with brass swivels, absolutely secure.
1K2482—1 doz. in envelope Doz. 55c
. . . . . $6.25



Sealer—Galvanized iron, light and durable, ⅜ in. long, works quickly
. . . . . Doz $1.25

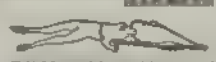
Leaders . . . . . Lb. $10.00 85c . . . . . Doz $1.35

FISH STRINGERS

"Climax" 42 in. chain, bdl. and bar ends, Doz.
. . . 490— 1 doz. in box $1.50

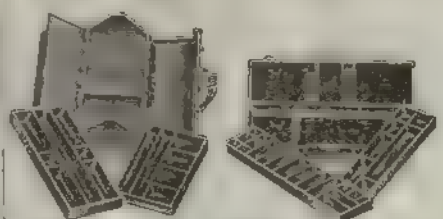
Hercules" — 6 ft. braided cotton . . . . . with . . . . . ends
. . . . . 1 doz. in box
Doz Temp. Out

RING'S FROG



1K2786 — Adjustable metal loop fits snugly under the . . . tree of line . . . of . . . when . . . and . . . in . . . the . . . frog . . . with . . . kept . . . by . . . pressing . . . with . . . thumb . . . Keeps . . . cast . . . ready . . . use . . . Each, $5.00

KENNEDY TACKLE BOXES



1K2323—Made of steel, 14 in. long, 7 in. wide, 9 in. high, 3 coated baked brown enamel prevents rusting with leather handle, Yale notch lock, brass side catches and corner irons, water proof and water tight, spacious compartments arranged so that contents cannot spill, lower tray is flush to upper and upper tray has lid covering which securely fastens. Can also be used for carrying . . . and . . . by removing trays . . . Keys . . . with . . . Each, $5.00

1K2324—Combination rod kit and tackle case. Made of steel, 24½ in. long, 6 in. wide, 9 in. high, 3 coated baked brown enamel prevents rusting with leather handle Yale notch lock, brass side catches and corner irons. Length and bottom spacing provides for several rods of standard size and is large enough to hold landing nets, gaff hooks, etc., 3 partitioned trays for . . . tackle . . . Lower . . . at . . . of . . . case for . . . rods . . . If . . . Each $6.00

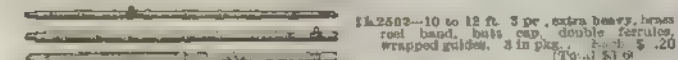
FISHING RODS

When you stock these expertly selected rods you can feel assured that they will meet with approval. Comparison of both goods and prices will prove that we offer the biggest and best values at . . . prices . . . package from . . . showing will prove to be . . . satisfactory and profitable

JOINTED BAMBOO RODS

1K2500—6 ft. 2 pc. . . . . 1 doz. in pkg
Doz $3.25

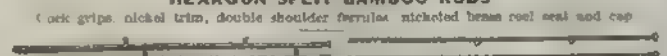
1K2501 . . . 7 ft. 3 pc. brass ferrules ½ doz. in pkg
Doz $6.75



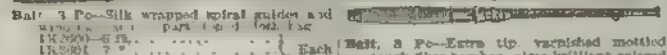
1K2502—10 to 12 ft. 3 pc., extra heavy, brass reel band, butt cap, double ferrules, wrapped guides. 3 in pkg. . . . Each $ .20
(To . . . $1.0

HEXAGON SPLIT BAMBOO RODS

Cork grips, nickel trim, double shoulder ferrules, nickeled brass reel seat and cap



Bait, 3 Pc—Silk wrapped spiral guides and . . . . . part . . . tip. Doz. Each
1K2600—6 ft. . . . .
1K2601 7 ft. . . . .
1K2602—8 ft. . . . .
. . . . .
Each $1.75



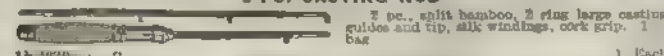
Bait, 3 Pc—Extra tip, silk wrapped guides with extra silk windings, Jap bamboo. Each in . . . bag
1K2605—6 ft. . . . .
1K2606—7 ft. . . . .
1K2607—8 ft. . . . .
1K2608—9 ft. . . . .
Each $2.25

Fly, 3 Pc—Extra tip, silk wrapped guides with extra silk windings, Jap bamboo. Each in cloth bag.
1K2507—9 ft., reel seat below handle Each $2.10

Bait, 3 Pc—Extra tip, varnished mottled tough fiber bamboo, close brilliant colored silk wrappings, nickel silver snake guides welted ferrules. 1 in bag
1K2701—6 ft.
1K2702—7 ft.
1K2703—8 ft.
1K2704—9 ft.
Each $4.25

Fly, 3 Pc—Extra tip, reel seat below handle light cane, selected flexible tough fiber young bamboo adapted for fly fishing closely wrapped with brilliant colored silk nickeled silver snake guides with fly ring tip, light and well balanced. Each on velvet covered form in bag
1K2528—9 ft. . . . . Each $8.00

2 PC. CASTING ROD



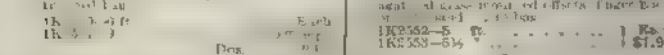
2 pc., split bamboo, 2 ring large casting guides and tip, silk windings, cork grip. 1 bag
1K2820—6 ft.
1K2821—7 ft.
Each $1.65

"SHADYBROOK" STEEL RODS

Good serviceable rods, black enameled, nickel trim, cork grips, each in partitioned cloth bag.

Bait, 4 Pc—3 joint and wood grip, nickel trim snake guides and 3 ring tip. Each in par- . . . bag
1K . . . 6 ft.
1K . . . 7 ft.
Each
. . . .
Doz.

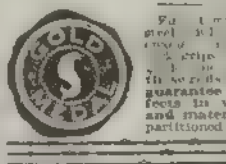
Bait, 4 Pc—3 joints and grip agatized casting tip, large nickeled silver casting guides . . . agatized . . . rings, finger hook and reel . . . bag
1K2552—5 ft. . . . . Each
1K2553—5½ ft. $1.95



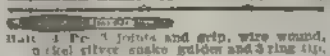
Bait, 4 Pc—3 joints and grip, nickel silver snake guides and 3 ring tip. 1 in bag
1K2532—6 ft. . . . . Each
1K2533—6 ft. $1.50

Bait, 4 Pc—3 joints and grip, large nickeled silver wire casting guides agatized mountings, finger hook and reel band 1 in bag
1K2537—5 ft. . . . . Each
1K2538—5½ ft. $2.50

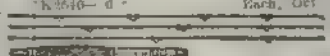
"GOLD MEDAL" STEEL RODS



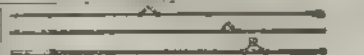
Fo . . . imperial . . . steel . . . nickel . . . ground . . . 3 . . . and . . . strips . . . We back . . . rods with our 3 yr. guarantee against defects in workmanship and material. Each in partitioned cloth bag.



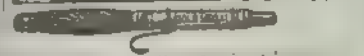
Bait, 4 Pc—3 joints and grip, wire wound, nickel silver snake guides and 3 ring tip, locking reel band.
1K2540—6 ft. . . . . Each
1K2541—7 ft. . . . . Each, Oct



Taper . . . 4 Pc—3 joints and grip, fine . . . ble . . . ferrules, . . . quality . . . light . . . balance . . . wire . . . ing tip, reel seat below handle
1K2541—10 ft. . . . . Each, $1.95



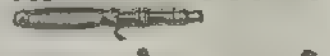
Bait Casting, 4 Pc—3 joints and grip, genuine agate mounted offset casting tip nickeled silver large Kalamazoo casting guides . . . bag
1K2542—5 ft. . . . . Each
1K2543—5½ ft. $4.75



Bait Casting, 4 Pc—3 joints and grip, genuine large agate . . . tip . . . nickeled silver . . . casting ring . . . inter . . . plate. 1 in bag
1K2544—5 ft. . . . . Each
1K2545—5½ ft. $4.50

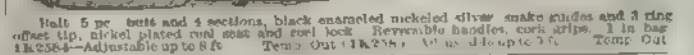
Bait Casting, 4 Pc—3 joints and natural cork butt, full agate mounted large casting guides nickeled silver mountings, finger hook on reel band, Kalamazoo pattern offset casting tip . . . in cloth bag
1K . . . 5 ft. . . . . Each
1K2546—6 . . . . . $5.75
1K2547—5½ . . . . .

Bait Casting, 4 Pc—3 joints and natural cork butt, full crystal agate mounted nickeled silver mountings special grip with handles above and below reel seat, finger hook on reel band, crystal used is specially . . . tered . . . in cloth bag
1K . . . 5 ft. . . . . Each
1K . . . 6 . . . . . $6.50
1K . . . 5½ . . . . .



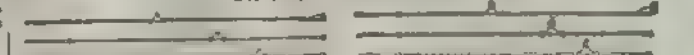
Bait Casting, 4 Pc—3 joints and natural cork butt . . . tip . . . agate . . . grade . . . sign nickeled silver mountings special grip with handles above and below reel seat, finger hook on reel band, extra heavy agates, tested before . . . and . . . bag
1K2562—4½ ft. . . . . Each
1K2563—5 ft. $9.25
1K . . . 6 . . . . .

"GOLD MEDAL" TELESCOPIC STEEL RODS



Bait, 5 pc. butt and 4 sections, black enameled nickeled silver snake guides and 3 ring offset tip, nickel plated reel seat and reel lock. Reversible handles, cork grips. 1 in bag
1K2584—Adjustable up to 8 ft. Temp. Out 1K2585—Adjustable up to 9 ft. Temp. Out

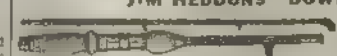
BRISTOL STEEL RODS



Bait Casting—(Mfrs. No. 25) 3 joints and grip large nickel silver casting guides with . . . agate tip detachable finger hook.
1K2570—5 ft. . . . . Each
1K2571—5½ ft. $6.50

Bait Casting—(Mfrs. No. 27) bait 4 pc. 3 joints and double grip, all guides genuine agate mounted, detachable finger hook.
1K2572—5 ft. . . . . Each
1K2573—5½ ft. $7.50

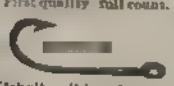
JIM HEDDONS "DOWAGIAC" CASTING RODS



Mfr. No. . . . pc. extra . . . selected . . . split bamboo . . . tip . . . ferrules, solid cork grip locking reel band, genuine, agate mounted first guide and tip. Each in partitioned cloth bag
1K2567—4½ ft. . . . . Each
1K2568—5 ft. $8.80

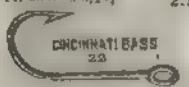
RINGED FISH HOOKS

First quality full count.



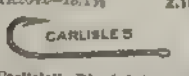
"Kirby" — Black enamel spring steel 100 in box

Trade Size	Per M
1K [illegible]	$0.90
1K [illegible]	.90
1K [illegible]	.90
1K [illegible]	.90
1K [illegible]	.90
1K [illegible]	1.05
1K [illegible]	1.30
1K [illegible]	1.70
1K 2/0 to 6/0, inc.	2.10



"Cincinnati" Bass — Bright finish, spring steel, oiled paper wrapped 100 in box

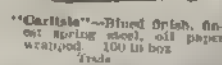
Trade Size No.	Per M
1K2035—25, 9/0	$0.90
1K2036—24, 7	.90
1K2037—23, 5½	.90
1K2038—22, 4½	.90
1K2039—21, 3½	1.15
1K2040—20, 2½	1.25
1K2041—19, 1½	1.75
1K2042—18, 1¼	2.10



"Carlisle"—Blued finish, finest spring steel, oil paper wrapped. 100 in box

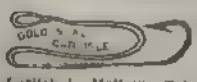
Trade Size	Per M
[illegible]	$1.05
[illegible]	1.05
[illegible]	1.05
[illegible]	1.60
[illegible]	2.10
[illegible]	2.50

SNELLED FISH HOOKS



"Carlisle" Double Cut — Fine quality steel hook. 1 doz in box

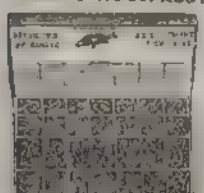
Trade Size In	Per M
1K2070—9 1/16	$3.25
1K2071—7 1/8	3.25
1K2073—[illegible]	3.25
[illegible]	3.25
1K2074—[illegible]	3.25
1K2075—[illegible]	3.25
[illegible]	3.25
[illegible]	3.50
[illegible]	3.75
1K2079—3/0 3¼	3.90



Carlisle Hollow Point Double Cut — 7 fin., fine [illegible] hook

Trade Size	Per M
[illegible]	$5.25
[illegible]	5.25
[illegible]	5.25
[illegible]	5.25
[illegible]	5.50
[illegible]	5.75
[illegible]	5.95

RETAIL "CABINET" RINGED HOOK ASST.



1K2050 — Contains all the popular styles and sizes of ringed hooks in neatly partitioned wood cabinet, selling easy and does away with pkg. and waste. 2 M in asst.

Kirby Style—
100 each, sizes 1, 3, 4, 6, 8, 10 1-0 and 3-0.
50 each sizes 4-0 and 6-0.

Limerick Style—
[illegible] and 3, 1-0, 2-0

Carlisle Style—
50 each sizes 7, 5, 1, 1-0, 2-0 and 3-0.

Cincinnati Bass Style—
6 [illegible] sizes 25, 22, 20 and [illegible]

Asstd in hinged cover cabinet selling price list with each 2 M in asst.

Asst. 2 M) $3.00

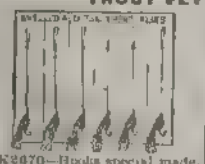
TROUT FLIES

Open Stock — Silk body, hand tied by spring steel hook, [illegible] each size set. Assorted [illegible] per dozen. Limit to any one size.

1K3050—Black Gnat.
1K3051—Brown Hackle, Peacock [illegible]
[illegible]
[illegible] Coachman
[illegible] Cow Dung
[illegible] Cahill
[illegible] Brown
[illegible] Yellow Sally
[illegible] Silver Doctor
[illegible] Scth Green.
[illegible] White Miller.
1K3056—Professor
1K3057—Queen of Water.
1K3057—Silver Doctor
Doz. $0.75 Doz. 84c

Asst. on Card—Silk body, hollow point, hand filled hook, semi-reversed wing. Assrtd best selling patterns painted on 3, 0 and 4 hooks.
1K3072—1 doz. on perforated card in envs.... Doz. $1.05

SOUTH BEND SNELLED BUCKTAIL TROUT FLY



1K3070—Hooks special made, long shank turn down eye, [illegible] hand tied [illegible] hair, tinseled [illegible] wrappings, bucktail [illegible] coat looking but the [illegible] and breathing like properties comprising the wonderful secret [illegible] Assrtd sizes [illegible] and 8 hooks [illegible] on card [illegible] assrtd in box. Doz $2.10

SOUTH BEND BUCKTAIL FLY WITH SPINNER

For trout and small bass. Oval flat spinner assrtd by each size in box. 1 on card [illegible] in box

1K2860—A [illegible] body [illegible] Doz $2.95
[illegible] Doz $2.95

RETAIL "CABINET" RINGED HOOK ASST.

1K2050 — Contains all the popular styles and sizes of ringed hooks in neatly partitioned wood cabinet, selling easy and does away with pkg. and waste. 2 M in asst.

Kirby Style—
100 each, sizes 1, 3, 4, 6, 8, 10 1-0 and 3-0.
50 each sizes 4-0 and 6-0.

Limerick Style—
[illegible] and 3, 1-0, 2-0

Carlisle Style—
50 each sizes 7, 5, 1, 1-0, 2-0 and 3-0.

Cincinnati Bass Style—
6 [illegible] sizes 25, 22, 20 and [illegible]

Asstd in hinged cover cabinet selling price list with each 2 M in asst.

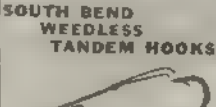
Asst. 2 M) $3.00

SHELLED BASS FLIES

Silk body, assrtd. best selling [illegible] [illegible] Doz. [illegible]

1K3814—White, red head
1K3815—Yellow, red head
1K3816—Mottled [illegible] red head
Doz $8.50

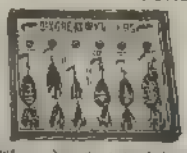
SOUTH BEND WEEDLESS TANDEM HOOKS



Particularly adapted for casting from pork rind or live bait. 5-0 hook, plain body with weed guard, each on card. 2 doz in box.

1K2816 Size 5-0 Doz. $1.25
1K2817 " 3-0 " 1.25

TROLLING SPOONS



Asst [illegible] [illegible] [illegible]

SHIP CHANDLERY

COMBINATION LAUNCH LIGHTS

Fresnal Glass

With Fresnal Glass and Screw Fount.

No. AA—Height of frame, 6 in. Extreme height without handle, 5½ in. Size of glass, 3x4 in. Weight each, 2 lbs. Galvanized. .....Each, $3.75

Boston style, galvanized, with round fresnal lenses and spring fount.

No. 10A—Diameter of glass, 2¼ in. Weight each, 1½ lbs. Galvanized .....Each, $3.75

SIGNAL LIGHTS

BABY FRESNAL

Green Side Light.

Red Side Light.

Bow Light.

Anchor Light.

For Small Motor Boats and Launches. Galvanized, with Spring Fount

	Size Glass, In	Extreme Height, In.	Width, In.	Each
Side Light, Green—Weight each, 1¼ lbs	3	7½	4	$4.00
Side Light, Red—Weight each, 1¼ lbs.	3	7½	4	4.00
Bow Light—Weight each, 1½ lbs.	3	7½	4	3.00
Anchor Light—Weight each, 1½ lbs	3	7½	4	3.00

IMPROVED NAVY LANTERN

Galvanized, with Hinged Bottom and Spring Fount

No. 8—Diameter of Globe, 5 in.; Height of Globe, 6½ in.; Height of Lantern, 12 in.; Diameter of Base, 5¾ in. ..Per dozen, $22.50

Extra—Globes—Doz., 4.50

FISH TRAP LIGHTS

Galvanized, with Brass Founts.

Fount holds sufficient oil to burn eight days, with 8-in. Fresnal globes.

No. 88W—White Globe..Each, $25.50

No. 88R—Ruby Globe .... " 28.50

Extra Burners—Complete with collar to solder to fount.....Dozen, $15.00

BULKHEAD LIGHTS

No. 18—Guarded, Galvanized

Size of Lanterns, In.	7x11	9x13
Weight each, lbs.	6¼	8¾
Each	$7.50	9.00

Other sizes made to order. These lamps are made of extra heavy metal. Glasses slide in from the outside. Reinforced guards. Superior to any lantern on the market.

SEATTLE HARDWARE COMPANY

SHIP CHANDLERY

SHIP LIGHTS

Galvanized Side Lights, Fresnal Glass

	Size Glass—Width, Height.	Height of Frame, In.	Extreme Height, In.	Width of Base, In.	Wt. per Pair, Net Pounds.	Per Pair.
No. 6	4⅛ x 4¼	6⅛	9⅜	6	5	$ 6.50
No. 7	5 x 5¼	7	11¼	7	6	7.50
No. 8	5 x 5¼	8⅛	12	8½	9	10.00
No. 9	6½ x 5⅝	9½	15	10	11	13.50
No. 10	6¾ x 6⅝	10½	17	11	14	16.00
No. 11	10 x 7⅛	12	19	12	27	30.00

No. 6 regularly furnished with Spring Fount.

Extra Founts for Side Lights

Nos.	6	7	8	9	10	11
Each	$1.00	1.00	1.00	1.50	1.50	1.50

Galvanized Masthead or Range Lights, Fresnal Glass

	Size Glass—Width, Height.	Height of Frame, In	Extreme Height In	Diameter of Base, In	Weight, Pounds	Each
No. 12	4⅜x4¼	6½	10	5¼	2½	$3 00
No. 13	5 x5	7½	11	5¾	3½	4 50
No. 14	6 x6	10	15	9½	6	7.50
No. 15	6¾x6¾	10	15	9½	6½	8 00
No. 16	9 x8	12½	21	10½	13½	16.00

No. 12 regularly furnished with Spring Fount.

Extra Founts for Masthead Lights

Nos.	12	13	14	15	16
Each	$1.00	1.00	1.00	1.50	1.50

Galvanized Anchor Lights, Fresnal Glass, White Globes

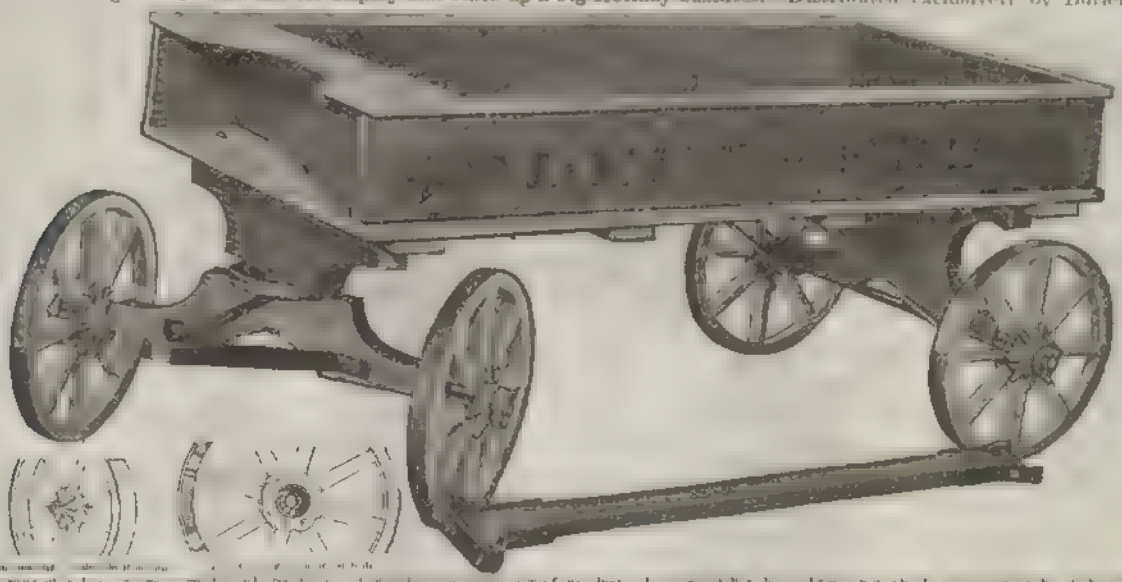
	Diameter of Glass, In.	Height of Glass, In.	Height of Frame, In.	Extreme Height, In.	Diameter of Base, In.	Wt. Each, Pounds.	Each.
No. 21	4¾	4½	10	14	5½	4	$4.50
No. 22	6	6¾	13	18	7	7	8.00
No. 22½	6	6½	12½	19	7½	9½	9.00
No. 23	8½	7	14	23	9½	13	15.00

Extra Founts for Anchor Lights

Nos.	21	22	22½	23
Each	$1.00	1.00	1.50	1.50

"FLEETFOOT" WOOD COASTER WAGONS

The supreme value in wood wagons. Nowhere can you equal this [illegible] low prices and attractive appearance make them sell on sight. Order a few for display and build up a big Holiday business. Distributed exclusively by Butler Brothers.



"Fleetfoot Sports" Red [illegible] wheels [illegible] Each **$3.25**

With Plain Bearings

[illegible] Body 8x4 [illegible]	$5.25
[illegible]	5.75
[illegible]	6.25

With Ball Bearings

[illegible]	In crate 24 lbs	$6.25
[illegible]	"	6.75
[illegible]	"	7.50

"OVERLAND" WOOD COASTER WAGONS

With Roller Bearings and other strong [illegible]ures which have given "Overland" such an enviable reputation in the trade. See the arch truss construction, extra body braces, the new patented wheel combining the all steel fellow [illegible] with turned-over edge to hold spoke ends.

Roller Bearings—All steel roller and [illegible] with turned-over edge to hold spoke ends.

[illegible] with [illegible] and [illegible] with [illegible] [illegible] bends back to permit steering front [illegible] Each [illegible] needle wagons box

F88—(Mfrs. 0A) body 19x28 wheels [illegible] 1 in carton 30 lbs. Each, **$5.75**

F86—(Mfrs. 1A) body 14x32, wheels 8 in. 1 in pkg. 28 lbs. Each **$6.80**

F88—(Mfrs. 2A), body 14x3[illegible] wheels 11 in. 1 in pkg., 60 lbs. Each **$7.40**

F87 (Mfrs. 3A) body 16x38, wheels 1 in 1 in pkg. 39 lbs. Each **$8.25**

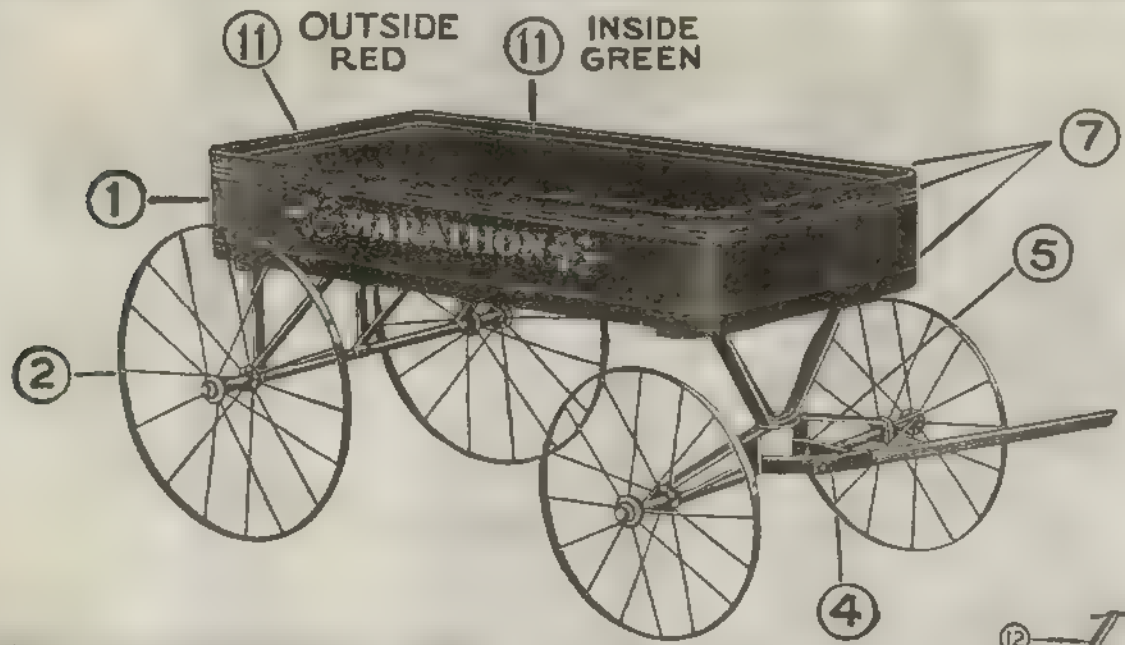
EXTRA 10 IN. WHEELS FOR COASTER WAGONS

Plain Bearing Extra heavy with iron hubs, rims [illegible] in bent oak [illegible] tires [illegible] wrought steel [illegible] [illegible] [illegible] wagons with [illegible] [illegible] [illegible] F 87 1 in pkg Each **60c**

Ball Bearing Self-oiling [illegible] or parts of [illegible] [illegible] [illegible]

"MARATHON" STEEL WAGONS

The greatest value in steel wagons on today's market. Because of our huge buying power we are enabled to quote prices that are lower than those asked for inferior grades. Larger in size, in finish and construction, they are representative of the great values which we have to offer



CONSTRUCTION OF "MARATHON" WAGONS

Beaded sheet steel bodies, securely riveted joints extra kiln dried tongue and grooved bottom boards wooden cleats on bottom boards extra heavy Imperial fifth wheel [illegible] gear plates [illegible] Handle supports keep handle off floor of [illegible] when not in use. Axles are extra heavy round stock with [illegible] Wheels and wheels bright stock gear, dark finish bodies bright red inside green outside with [illegible] Packed two complete (except F103 and F103, all parts inside [illegible] and cartons. Each guaranteed.

BUILT TO LAST

Here is the proof—make your own comparisons

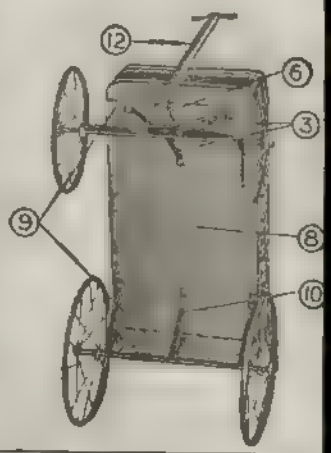
Our Factory No.	No.	Size of Body Ours	Others	Size of Wheels Ours	Others	Weight per Doz. Ours	Others	In Box	Our price Per Doz.
F101	00	7½x12½						½ doz.	$9.80
F103	04	9x18	8x18	5 and 9 in.	5 and 6 in.	72 lbs.	60 lbs	"	14.20
F105	02	11x22	10x22	8 " 10	5 " 8 "	95 "	84 "	"	19.75
F107	1	12x26	12x26	10 " 13	" 10 "	170 "	138 "	½ "	27.00
F109	3	13x30	14x30	12 " 15	" 11 " 11 "	210 "	186 "	½ "	33.00
F110	4	15x32	16x32	13 " 16	" 11 " 13 "	250 "	204 "	½ "	39.00

F112—6 size assortment, including one each of F101 103, 105 107, 109 110 ranging in size from 7½x12½ to 16x32. An excellent starter asst. Asstd. 6 in crate

ASST wagons **$13.60**

12 BIG FEATURES OF "MARATHON" STEEL WAGONS

1. **Body Size**—Larger than any others
2. **Rear Wheels**—Larger than front wheels and extra strong
3. **Indestructible Fifth Wheel**—Superior construction giving extra strength carries, wear out and give trouble
4. **Handle Support**—Keeps handle off floor when not in use
5. **Front Gear**—Very strong in one piece with extra strong brace
6. **Tongue Irons**—Made of extra heavy gauge steel
7. **Reinforced Wagon Box**—Reinforced in [illegible] places with heavy rolls and beads
8. **Bottom Boards**—Matched kiln dried lumber tongued and grooved and glued.
9. **Wood Cleats**—Extra cleats reinforcing bottom boards.
10. **Extra Brace**—Rear axle of all numbers except F101 and F103 has extra steel brace [illegible]
11. **Body Finish**—Bright red enamel [illegible] and [illegible] with green inside
12. **Hardwood Handle**—With steel pin or D grips



"PEERLESS" STEEL WAGONS

You will have great difficulty in finding values that equal these. Similar to the "Marathon" wagons shown on this page but heavier in construction. There are no better wagons made than the "Peerless." The comparison of sizes shown for the "Marathon" also applies to these wagons.

Heavy steel sides, corrugated bands, blue enameled outside, red inside, strong steel braces and bolsters attached to body by bolts, improved fifth wheel and steel axles, baked, black enameled double spoke wheels with nickel hub caps, strong parent [illegible] hardwood handle, [illegible] D" grip, otherwise similar description to the "Marathon" wagons shown above. Each packed in carton

Steel Tires—2 in carton			Doz.	Rubber Tires—½ in. cushion. 2 only in carton.			Total	Each
F116—13x26	10 & 13 in.	17 lbs.	$33.00	F122—13x26	10 & 13 in.	17 lbs.	$7.50	$3.75
F118—15x30	12 & 15 "	20 "	40.00	F124—15x30	12 & 15 "	20 "	9.00	4.50

FLEXIBLE FLYER SLEDS

Length 38 in
Height 6 in
Width 12 in
Weight 9¾ lbs
No. 1, each

No. 1

Length 42 in
Height 6 in
Width 13 in
Weight 10½ lbs
No. 2, each

No. 2

Length 47 in
Height 7⅛ in
Width 14 in
Weight 13 lbs
No. 3, each

No. 3

Length 52 in
Height 6¾ in
Width 14 in
Weight 17½ lbs
No. 4, each

No. 4

Improved Construction
All-Steel Front

More Effective and Easier Steering

Chrome Nickel Steel Runners
Grooved

Safer — Handsomer — Stronger

Length 58 in
Height 8 in
Width 16 in
Weight 28½ lbs
No. 5, each

No. 5

Length 62 in
Height 9¼ in
Width 16½ in
Weight 47 lbs
No. 6, each

No. 6

Length 48 in
Height rear 8¾ in
Height front 6¾ in
Width 14 in
Weight 10½ lbs
Junior Racer

No. 350

Length 57 in
Height rear 8¾ in
Height front 7⅝ in
Width 13 in
Weight 16½ lbs.
Racer,

No. 425

Length 40 in
Height, rear 5 in
Height, front 7⅛ in
Width 13 in
Weight 30½ lbs
Tuxedo Racer

No. 600

The runners are japanned, not merely painted. The wood work is carefully selected, decorated, and finished with **three coats** of the best grade varnish

This **careful** and **scientific construction** explains why the "Flexible Flyer" retains its value year after year and **outlasts all ordinary sleds.**

The grooved chrome nickel steel runners (patented) make "Flexible Flyers" the only sleds that will steer on snow or ice, and the safest sleds made

The new all-steel front makes easier and more efficient steering and greatly strengthens the sled

FIRE FLY COASTERS

Next to "Flexible Flyers" these Coasters are without doubt far superior in construction, design, finish and steering qualities to any other Coasters on the market

The FIRE FLY COASTERS have spring steel runners, ⊥ shaped, making them very strong, vertically, but flexible sidewise. This enables one to guide the Coaster by the steering bar, curving the runners to the right or left, as desired. The steering is thus made easy, and is a great charm to the Coaster **Light, Fast, Strong, Cheap.**

Length . . . 32 inches
Height . . . 6 inches
Width . . . 11 inches
Weight . . . 7 pounds
No. 9, each

No. 9

Length . . . 38 inches
Height . . . 6 inches
Width . . . 12 inches
Weight . . . 8 pounds
No. 10, each

No. 10

Length . . . 40 inches
Height . . . 6¼ inches
Width . . . 13 inches
Weight . . . 9½ inches
No. 11, each

No. 11

Length . . . 45 inches
Height . . . 6¼ inches
Width . . . 14 inches
Weight . . . 11½ pounds
No. 12. each

No. 12

Length . . . 49 inches
Height . . . 6½ inches
Width . . . 12 inches
Weight . . . 10½ pounds
No. 1014. Fire Fly Racer. each

No. 1014

We Especially Solicit and Pay Particular Attention to Mail Orders

FLY TRAPS OR CATCHERS

BALLOON

Tinned. 12 Mesh Wire Cloth I. C. Tin Bound Edges. Diameter Bottom, 4 Ins. Height, 7 Ins. Weight, Per Dozen, About 6 Lbs.

Per Dozen
No. 803 ..... **$3.50**

One dozen in a box.

PARAGON

Painted. 12 Mesh Wire Cloth Soldered to Two Tin Uprights. Diameter of Top 4½ Ins. Height, 8½ Ins. Weight, Per Dozen, About 9 Lbs.

Per Dozen
No. 804 . . **$4.80**

One dozen in a case.

OUT DOOR "GIANT"

Made Strong, Light and Lasting. Ribs and Top Galvanized. Top Fastened Securely by Two Latches. Where Flies are Numerous or where They Breed, Bait Trap by Placing Substance that Attracts Them in Saucer Under Trap.

Each
No. 2013—Weight, Each, About 20 Lbs. **$3.80**

One in a carton.

THE SUPERIOR

Shape Makes it Convenient to Move from Place to Place or to Hang Up. Two Domes or Covers are Made of New Galvanized Wire Cloth which is Rust Proof. Feed Pan Rims and Stays are of Heavy Tin. Feed Pan Made to Hold Liquid or Solid Bait. When Bait is Used with Food Flies Seek a Change by Walking Up Inside Dome of Trap Through Opening and Into Outer Dome, from Whence there is No Escape. Feed Pan Attached to Outside Dome by Brass Spring Catches. Diameter, 11 Inches.

Per Dozen
No. 36 . . . . . **$12.80**

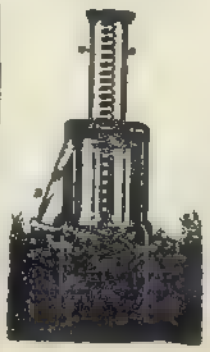
MOLE TRAPS

REDDICK

Tinned Steel Coil Spring. Height, Over All, 24 Ins. Width, 4 Ins. Six Prongs, 4½ Ins. Long. Weight, Per Dozen, 36 Lbs.

Per Dozen
No. 35 **$18.50**

Half dozen in a crate.



OLMSTED

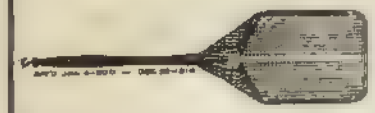
Made of Steel and Iron. Painted. Height, Over All, 11½ Ins. Width, 5 Ins. 8 Prongs, 5½ Ins. Long. Weight, Per Dozen, 21 Lbs.

Per Dozen
No. 45 . . . . . **$31.00**

One in a box.

FLY KILLERS OR SWATTERS

QUEEN



Black Wire Cloth Bound with Felt. Size, 4¼ x 6¼ Ins. Weave Secured by Double Fold Back Enameled Handle.

Per Dozen

No. 75—Length, Over All, 16½ Ins. **$2.00**

One dozen in an envelope. One dozen in a carton with display stand

BIGELOW

Tinned Wire Head. Size, 4 x 5 Ins. Enameled Handle. Length, Over All, 16 Ins.

Per Dozen

No. 10—Wt., Per Doz., About 2¼ Lbs..... **$2.20**

One dozen in a carton, with display stand.

"KANT SCRATCH"

Black Wire Head. Size, 4¼ x 6¼ Ins. Bound and Securely Fastened to Twisted Handle. Dull Nickel Finish. Length, Over All, 16 Ins.

Per Dozen

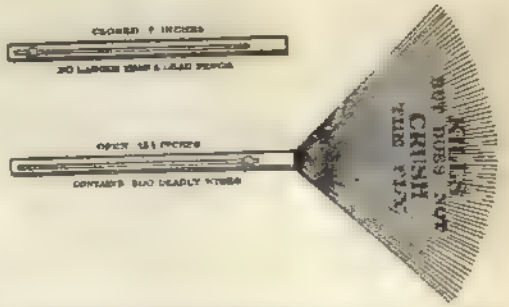
No. 227—Wt., Per Doz., About 2 Lbs..... **$2.00**

FLY PAPER

Size of Sheets, 9 x 16 Ins. Five Double Sheets in a Sealed Envelope, Ten Envelopes in a Carton (50 Double Sheets.) Five Cartons in a Case (250 Double Sheets).

	Per Carton of 50 Double Sheets	Per Case of 250 Sheets
No. 25	**$1.80**	**$8.50**

B. A. ADJUSTABLE



Wire Head Slides into Stamped Steel Handle by Pushing a Small Button on Side of Handle. Length, when Folded, 7 Ins. Length, Over All, 13 Ins. Size, 5 x 6 Ins.

Per Dozen

No. BA2—Wt., Per Doz., About 1 Lb..... **$1.80**

Two dozen in a carton, with display card

SANITARY

Made of Flexible Rubber, Can be Washed. Will Not Rust. Size, 5 x 3 Ins. Varnished Handle. Length, Over All, 13¾ Ins.

Per Dozen

No. 80 ..... **$1.70**

One dozen in a carton. One gross in a [illegible]

PYRAMID FLY CATCHER OR PAPER

When Closed Measures 2 Ins. in Height. When Hung Coil will Unwind 30 Ins. Weight, Per Carton of 50, About 5 Lbs.

Per [illegible]

No. 50 ..... **$4.60**

Fifty in a display carton.

TANGLEFOOT FLY RIBBON

The Sticky Material is the Same as Used in the Manufacture of Tanglefoot Fly Paper. Sanitary and Non-Poisonous. Size of Ribbon 1⅝ x 31 Ins

	Per Carton of 50	Per Case of 200
No. 300	**$3.00**	**$7.50**

DECOYS

Folded

In Use

FOLDING PAPER
Bluebill and Mallards

Made of a **Water-Proofed Jute Fibre Cardboard**, a very tough stock Printed from Half-tone Plates, true to life, cut to exact size and shape and made to fold up exactly like a Folding Box or Carton. Has balancing device weighing only an ounce, which makes upsetting impossible.

Per Dozen

Johnson's Paper Decoy $7 00

One Dozen in an Envelope, with Floats packed separate.
Weight per Dozen about 4¾ Lbs.

ILLINOIS RIVER, FOLDING DUCKS

In Groups of **Three**, connected with a Hinge, allowing them to be set out, with a Bird on each side of a Frame Securely Held in place with a Spring. When not in use can be Folded Flat; Made of Wood, Painted True to Life.

Per Dozen

No. 20—Mallard Ducks, with Anchors $12.00
One Dozen Assorted, Male and Female, in a Neat Box with Handle

No. 30G—Geese, with Anchors $20.00
One Dozen in a Case. Weight 8 Lbs. per Dozen.

WOOD
Mallard, Canvas Back, Red Head or Blue Bills

Per Dozen

No. 2—Painted, **Tack Eyes** $12.00
No. 1—Nicely Painted, **Glass Eyes** 14.00
One Dozen Assorted, Male and Female, in a Crate
Weight per Crate, 35 Lbs.

DECOY ANCHORS

Per Dozen

No. 100—Cast Iron; Weight Each about 6 ounces $1.20

DUCK CALLS

Per Dozen

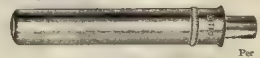
No. 760—Ducks; Polished Cocobolo; Nickel Tip; Length 4¾ in $7 00

Per Dozen

No. B. B.—Duck; Highly Enameled; Two piece Wood Construction, fitted together with Nickeled Hose Band; Composition Rubber Reed; Length 5¾ in.; Calls imitated with very little effort.....$12.00

Per Dozen

No. 1902—Duck; Maple; Nickel Tip; Length 6½ in.... ....$9.00

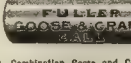


Per Dozen

No. 70—**Combination Duck and Goose Call**; Nickel Plated Brass, Rubber Reed; Length 6¼ in.....$14.00
Perdew's Crow Call 18.00

Per Dozen

No. 880—Duck; Polished Maple; Metal Tip; Length 4½ in..$15.00
One Dozen in a Box.



Per Dozen

No. 80—**Combination Goose and Crane Call**; Nickel Plated Brass; Wood Mouthpiece; Length 5¾ in.....$24.00

CLEAVERS

FOSTER BROS.

Best crucible tool steel blades, perfectly tempered, ground, sharpened and polished. Polished steel ferrule. Seasoned applewood handle, securely riveted and warranted not to come loose.

MARKET

For market and restaurant use.

Nos.	07	08	09	010
Length of blade, inch	7	8	9	10
Weight per dozen, lbs	27	30	40	50
Per dozen	$67 00	73 00	81.00	89.00

PORK

For cutting pork and meats of medium weight.

Nos.	28	29
Length of blade, inch	8	9
Weight per dozen, lbs	30	35
Per dozen	$66.00	74.00

LAMB

Nos.	18	19	110
Length of blade, inch	8	9	10
Weight per dozen, lbs	18	30	36
Per dozen	$59.00	65.00	72.00

Above loose.

NEW YORK FAMILY

Applewood handles.

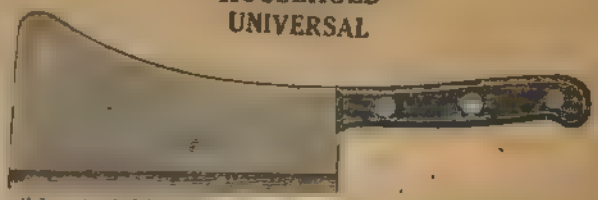
Length of blade, inch	6	7
Weight per dozen, lbs	12	14
Per dozen	$23 00	24.00

UNIVERSAL

Beech handle. Forged polished crucible steel blade.

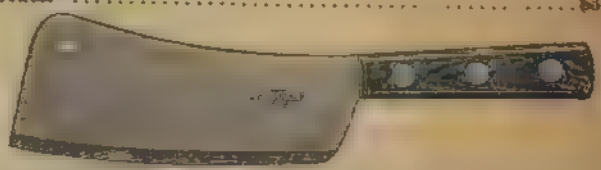
No.	200
Length of blade, inch	8
Weight per dozen, lbs	11½
Per dozen	$15.00

HOUSEHOLD
UNIVERSAL



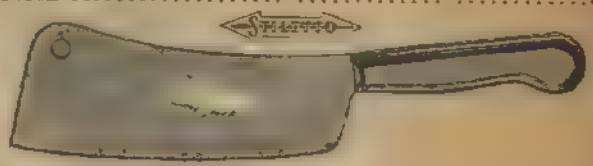
Crucible steel blade. Cooks cleaver. Walnut handle. Brass rivets.

No.	9203
Length of blade, inch	8
Weight per dozen, lbs	24
Per dozen	$33 00



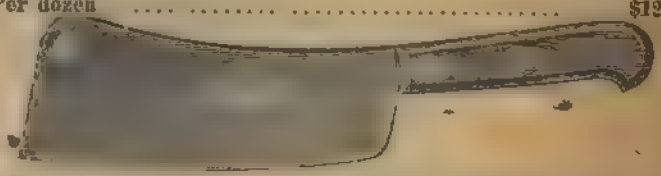
Square cocobolo handle, fastened with three brass telescope rivets, hardened and tempered. Polished steel blades.

No. 8—Length of blade, inch	7
Weight per dozen, lbs	14
Per dozen	$10 00



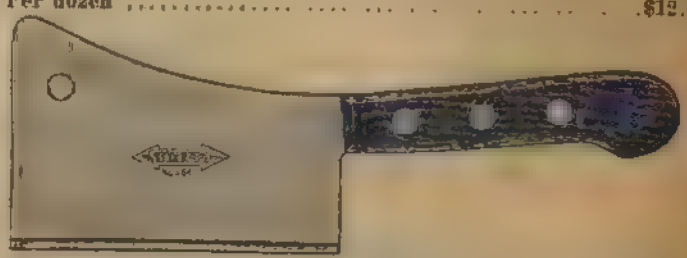
Forged steel blade. Polished. Pieced sanitary hollow aluminum handle.

No.	556
Length of blade, inch	7
Length of handle, inch	5
Weight per dozen, lbs	7
Per dozen	$12 00



Forged steel blade, crocus polished. Rosewood handle. Two brass rivets.

No.	500
Length of blade, inch	7
Length of handle, inch	4¾
Weight per dozen, lbs	7
Per dozen	$12.00

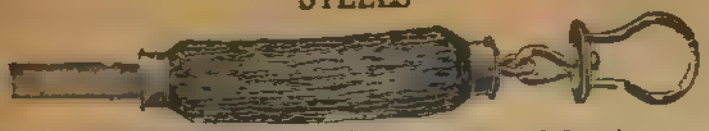


Forged steel blade, ⅛-inch thick on the back. Highly polished blade, three-quarter tang, cocobolo handle, three brass rivets.

No.	600
Weight per dozen, lbs	13½
Length of blade, inch	6
Per dozen	$24 00

All above, one-half dozen in box.

STEELS



Stag Handle, Swivel End. Brass cap and ferrule.

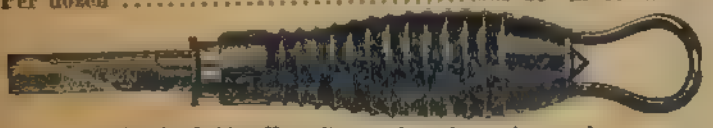
No. 66—Wilson. Length, inch	10	12	14
Weight per dozen, lbs.	11	13	15
Per dozen	$40.00	47.00	54.00

Nickel plated ferrule and

No. 66H—Hoffman. Length, inch	10	12	14
Weight per dozen, lbs.	11	13	15
Per dozen	$25 00	28 00	30.00

Polished rosewood handle, inlaid with metal, soft metal ferrule, bright malleable iron swivel

No. 82—Wilson. Length of steel, inch	10	12	14
Weight per dozen, lbs	10	12	14
Per dozen	$39 00	46.00	54.00



Ebonized Handle. Brass ferrule and guard.

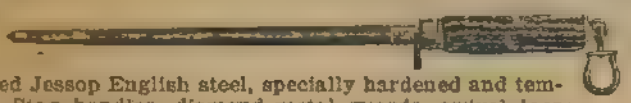
No. 54—Wilson. Length, inch	10	12	14
Weight per dozen, lbs.	8	9½	12
Per dozen	$28.00	34.00	42.00

Beechwood Handle. Swivel end, diamond shape guard, nickel ferrule.

No. 57—Hoffman. Length, inch	10	12	14
Weight per dozen, lbs.	11	12	14
Per dozen	$16 00	18.00	21 00

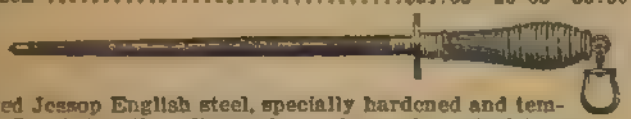
Black Japanned Handle, nickel plated bolster

No. 52—Hoffman. Length, inch	8
Weight per dozen, lbs.	4½
Per dozen	$9.00



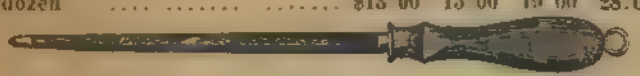
Forged Jessop English steel, specially hardened and tempered. Stag handles, diamond metal guards, swivel loops.

No. 002—Universal Lee. Length steel, inch	10	12	14
Weight per dozen, lbs.	11½	13	14
Per dozen	$24.00	26 00	30.00



Forged Jessop English steel, specially hardened and tempered. Beech handles, diamond metal guards, swivel loops.

No. 102—Universal Lee. Lgth steel, in	10	12	14	16
Weight per dozen, lbs.	9½	10	12	15
Per dozen	$13 00	15 00	19 00	28.00



Black enameled wood handle, with screw eye, steel ferrule.

No. 301—Universal Lee. Length of steel, inch	7½
Weight per dozen, lbs	8
Per dozen	$6.00

One-half dozen in a box

KNIFE SHARPENERS
CARBORUNDUM ROUND

Firmly secured to wood handle by steel rod extending through sharpener. Weight, 8 lbs per dozen.

No.	76
Length over all, inch	12
Per dozen	$7.00

One dozen in display carton.

CARBORUNDUM OCTAGONAL

Eight flat surfaces. It is a solid shaft of carborundum fitted with a durable wood handle. Weight, 5¼ lbs per dozen.

No.	78
Length over all, inch	12
Per dozen	$13 00

One-half dozen in display carton

PIKE KANTBREAK

Soft fast cutting grit. Steel rod is heavily coated with sharpening material. Rubber tips on end. XXXXX handles, with nickel plated ferrules. Weight, 6 lbs per dozen.

No.	20
Length over all inch	13
Per dozen	$7.00

FRENCH AUTO OIL

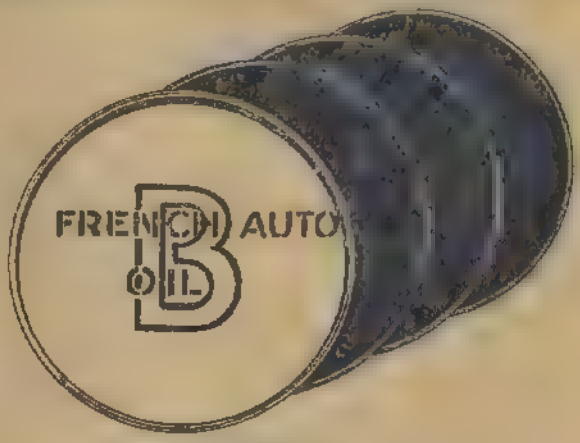
PURE PENNSYLVANIA PARAFFINE BASE OIL

KEEPS YOUR MOTOR YOUNG

Cheapest per Mile

French Auto Oil is made from the premium crude oil of the world, by practical and scientific refiners, who have been making successful lubricating oils for more than thirty years. Embodies the maximum of lubrication purity and adaptation in motor oil. The terrific heat in the engine breaks down ordinary oil and forms sediment. Repeated tests have shown this oil to resist heat and reduce sediment. That means less friction, less wear on the engine, less oil expense. The highest possible quality.

5-Gallon Can



60-Gallon Drum

¼-Gallon Can

A WEIGHT FOR EVERY CAR

A Grade—Just heavy enough for any motor that requires a heavy oil, wine color, designed for both air and water-cooled motors.

B Grade—Neither heavy nor light, wine color, designed for motors using medium oil.

C Grade—Possesses a bright amber color, just the oil for every car, works perfectly every month of the year. The value of this oil to your motor will prove a pleasing revelation.

LIST OF PASSENGER CARS AND THE GRADE OF OILS BEST SUITED

Auburn C	Kissel ..... B	Paige ..... A
Buick C	Liberty C	Packard C
Briscoe C	Maxwell C	Peerless C
Case C	Mitchell ..... A	Pierce-Arrow C
Cadillac C	McFarlan C	Reo ..... A
Chandler C	Marmon C	Saxon C
Chalmers C	Metz C	Stearns-Knight ..... A
Chevrolet C	Moline-Knight ..... A	Scripps-Booth C
Cole ..... B	Monroe C	Stutz ..... A
Dodge ..... B	Moon C	Studebaker C
Ford C	National ..... B	Velie C
Franklin ..... A	Nash ..... A	Willys-Knight ..... B
Haynes ..... A	Oakland C	White C
Hudson ..... A	Oldsmobile ..... A	Winton C
Hupmobile ..... A	Overland C	

	50-gal Drums Gal.	¼ Drums Gal.	5-gal Cans Can	1-gal Cans Can	½-gal Cans Can
French Auto Oil, Grade A	$1 40	1 60	7 25	1.70	1.95
French Auto Oil, Grade B	1 35	1 55	7 20	1 65	1.90
French Auto Oil, Grade C	1.30	1 50	7.15	1.60	1.85

FRENCH TRACTOR OIL

	50-gal Drums	¼ Drums
French Tractor Oil No. 1	$1 40	1 60
French Tractor Oil No. 2	1 35	1.55

FRENCH MAROLINE MOTORCYCLE OIL

	50-gal Drums Gal.	5-gal Cans Can	1-gal Cans Can
French Maroline Motorcycle Oil	$1 40	7.25	1 70

Drums contain 50 gallons, ¼ drums about 15 gallons. Five-gallon cans, 2 in a case; 1-gallon cans, 12 in a case; ½-gallon cans, 12 in a case. No charge for package.

Empty drums and quarter drums can usually be returned, and credit will be given at market rates if they are in good condition. **Obtain permission and shipping instructions before returning.**

Note—Oils and greases mix in carloads.

MOCO REX HARD OIL OR CUP GREASE

Will Stay Where It is Put

It is very slightly affected by changes in temperature; lubricates efficiently. Cleaner to use than oil; more convenient and economical.

A special lubricant for high grade machinery, vehicles, automobiles, threshing machines, steam and gas engines, motors, etc.

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can	2-lb Cans Can	1-lb Cans Can
Moco Rex Hard Oil or Cup Grease (Plain, no Graphite)	$0.19	.19½	5.60	2.10	1.20	.46	.32

MOCO NON-FLUID OIL

For Differentials and Transmissions

Does not send out under heat pressure. Clings to gear teeth and bearing surfaces. Provides a permanent, slippery pressure-resisting between gears and bearings, thereby reducing friction to a minimum, and assuring you of all the power developed. The intricate bearings and ball or roller bearings in differential cannot be operated smoothly and efficiently without perfect lubrication. All contact must be kept apart and cushioned, so as to absorb impact and eliminate friction.

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can
Moco Non-Fluid Oil (Plain, no Graphite)	$0.19	.19½	5.60	2.10	1.20

MOCO GEAR COMPOUND

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can
Moco Gear Compound	$0.17	.17½	5.00	2.45	1.50

Barrels contain about 400 lbs. Half barrels contain about 240 lbs. Twenty-five-lb cans, one in a case; 10-lb cans, 6 in a case; 5-lb cans, 12 in a case; 1-lb cans, 24 in a case.

Note—Oils and greases mix in carloads.

FRENCH AUTO OIL

PURE PENNSYLVANIA PARAFFINE BASE OIL.

KEEPS YOUR MOTOR YOUNG

Cheapest per Mile

French Auto Oil is made from the premium crude oil of the world, by practical and scientific refiners, who have been making successful lubricating oils for more than thirty years. Embodies the maximum of lubrication purity and adaptation in motor oil. The terrific heat in the engine breaks down ordinary oil and forms sediment. Repeated tests have shown this oil to resist heat and reduce sediment. That means less friction, less wear on the engine, less oil expense. The highest possible quality.

5-Gallon Can

50-Gallon Drum

⅛-Gallon Can

A WEIGHT FOR EVERY CAR

A Grade—Just heavy enough for any motor that requires a heavy oil, wine color, designed for both air and water-cooled motors.

B Grade—Neither heavy nor light, wine color, designed for motors using medium oil.

C Grade—Possesses a bright amber color, just the oil for every car, works perfectly every month of the year. The value of this oil to your motor will prove a pleasing revelation.

LIST OF PASSENGER CARS AND THE GRADE OF OILS BEST SUITED

Auburn	C	Kissel	B	Paige	A
Buick	C	Liberty	C	Packard	C
Briscoe	C	Maxwell	C	Peerless	C
Case	C	Mitchell	A	Pierce-Arrow	C
Cadillac	C	McFarlan	C	Reo	A
Chandler	C	Marmon	C	Saxon	C
Chalmers	C	Metz	C	Stearns-Knight	A
Chevrolet	C	Moline-Knight	A	Scripps-Booth	C
Cole	B	Monroe	C	Stutz	A
Dodge	B	Moon	C	Studebaker	C
Ford	C	National	B	Velie	C
Franklin	A	Nash	A	Willys-Knight	B
Haynes	A	Oakland	C	White	C
Hudson	A	Oldsmobile	A	Winton	C
Hupmobile	A	Overland	C		

	50-gal Drums Gal.	¼ Drums Gal.	5-gal Cans Can	1-gal Cans Can	½-gal Cans Can
French Auto Oil, Grade A	$1.40	1.60	7 25	1.70	1.95
French Auto Oil, Grade B	1.35	1.55	7.20	1.65	1.90
French Auto Oil, Grade C	1.30	1.50	7.15	1.60	1.85

FRENCH TRACTOR OIL

	50-gal Drums	¼ Drums
French Tractor Oil No. 1	$1.40	1.60
French Tractor Oil No. 2	1.35	1.55

FRENCH MAROLINE MOTORCYCLE OIL

	50-gal Drums Gal.	5-gal Cans Can	1-gal Cans Can
French Maroline Motorcycle Oil	$1.40	7.25	1.70

Drums contain 50 gallons, ¼ drums about 15 gallons. Five-gallon cans, 2 in a case; 1-gallon cans, 12 in a case; ⅛-gallon cans, 12 in a case. No charge for package.

Empty drums and quarter drums can usually be returned, and credit will be given at market rates if they are in good condition. Obtain permission and shipping instructions before returning.

Note—Oils and greases mix in carloads.

MOCO REX HARD OIL OR CUP GREASE

Will Stay Where It Is Put

It is very slightly affected by changes in temperature; lubricates efficiently. Cleaner to use than oil; more convenient and economical.

A special lubricant for high grade machinery, vehicles, automobiles, threshing machines, steam and gas engines, motors, etc.

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can	2-lb Cans Can	1-lb Cans Can
Moco Rex Hard Oil or Cup Grease (Plain, no Graphite)	$0.19	.19½	5.60	2.10	1.20	.46	.82

MOCO NON-FLUID OIL

For Differentials and Transmissions

Does not send out under heat pressure. Clings to gear teeth and bearing surfaces. Provides a permanent, slippery pressure-resisting between gears and bearings, thereby reducing friction to a minimum, and assuring you of all the power developed. The intricate bearings and ball or roller bearings in differential cannot be operated smoothly and efficiently without perfect lubrication. All contact must be kept apart and cushioned, so as to absorb impact and eliminate friction.

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can
Moco Non-Fluid Oil (Plain, no Graphite)	$0.19	.19½	5.60	2.10	1.20

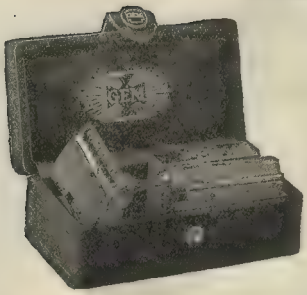
MOCO GEAR COMPOUND

	Bbls Lb	½ bbls Lb	25-lb Cans Can	10-lb Cans Can	5-lb Cans Can
Moco Gear Compound	$0.17	.17½	5.00	2.45	1.50

Barrels contain about 400 lbs. Half barrels contain about 240 lbs. Twenty-five-lb cans, one in a case; 10-lb cans, 6 in a case; 5-lb cans, 12 in a case; 1-lb cans, 24 in a case.

Note—Oils and greases mix in carloads.

SAFETY RAZORS



GEM DAMASKEENE

Latest Improved Model; Silver-Plated Frame, with Detachable Nickel-Plated Solid Steel Handle, 2¼ in. Long; Complete with Seven Gem Damaskeene Blades and Nickel-Plated Stropper with Nickel-Plated Hollow Handle

Each

Gem Damaskeene—One Set in an Imitation Leather, Hinged Case, Button Fastening; Size of Case, 3¾x2⅝x1½ in. $1.00
Each Case in a Cardboard Box, Weight ⅞ Lb.

Per Package

Gem Damaskeene Safety Razor Blades—Made of the Finest English Damaskeene Steel $0.50
Seven Blades in a Package

ENDERS' DOLLAR

Solid Nickel Steel Frame; Steel Handle, Heavily Nickel Plated. Length 4 in. with Knurled Center and Seven Blades of Highest Grade Norwegian Cutlery Steel, Carefully Ground and Highly Tempered. Each Blade Good for Six to Twenty Shaves

Each

No. E—Safety Razor and Six Blades in a Hinged Case Covered with Black Keratol, Purple Silk Plush Lined, with Button Clasp; Size of Case 4⅛ in. Long, 2 in. Wide, ⅞ in. High $1.00
One Dozen in a Cardboard Box

ENDERS' SHAVING SETS

Per Set

No. 7—Black Keratol Hinged Case; Size 5¾x2⅝x1 in. $1.50
One Set in a Cardboard Box

Contains 1 Enders' Dollar Safety Razor, an Extra Package of Enders, Guaranteed Hand Finished and Tested Blades; 1 Special Enders' Nickel-Plated Stropping Handle; 1 Enders' Selected Quality, Horse Hide Razor Strop—all packed completely and compactly in a Black Keratol Hinged Case.

DURHAM DUPLEX BLADES

Per Dozen

Durham Duplex Blades—Special Ground, of Finest Tempered Razor Steel. $1.00
Six in a Package

SAFETY RAZORS

AUTO STROP SAFETY RAZORS

Shaves, Strops Automatically, and Cleans Without Removing Blade from the Holder

Only the Auto Strop Blade can be used in the Auto Strop Frame, and the Blade is not removed from the holder for stropping or cleaning. Its Adjustable Feature is Supremely Simple. No unscrewing. No possibility of the Adjustment Slipping after being fixed. This feature permits the user to adjust at will for a light or close shave.

The Razor and Automatic Stropper are Combined in One Piece—the frame serves the purpose of holding the blade when shaving and also acts as an Automatic Stropper; the blade can be stropped without removing it from the frame by inserting the Flexible Horsehide Strop, which accompanies each Razor, between the frame.

STANDARD OUTFIT

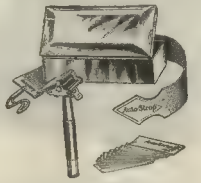
Sizes of Cases, 1¾x4½ inches

	Each
No. 1 —Black Leather Case, Satin Lined	$5 00
No. 1B —Blue Leather Case, Satin Lined	5 00
No. 1M—Maroon Leather Case, Satin Lined	5.00

One in a Cardboard Box; Weight Each about ¾ Lb.

Contain the following:

1 Auto-Strop Self-Stropping Razor, Quadruple Silver Plated.
12 Auto-Strop Razor Blades
1 Shell Horsehide Strop, 15 in. Long and 1⅝ in. Wide.
1 Leather Case, Satin Lined, Size 1¾x4½ in.



METAL CASE OUTFIT

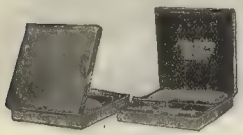
Size of Case, 1¾x4½ inches

	Each
No. 50—Handsome Nickel-Plated Metal Case, Velvet Lined	$5 00

One in a Cardboard Box; Weight Each about ¾ Lb.

Contain the following:

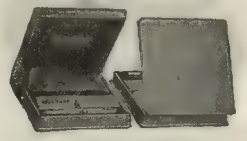
1 Auto-Strop Self-Stropping Razor, Quadruple Silver Plated.
12 Auto-Strop Razor Blades
1 Shell Horsehide Strop, Specially Prepared, 15 in. Long, 1⅝ in. Wide.
1 Embossed Metal Case, Velvet Lined, Size 1¾x4½ in.



FLAT METAL SET

Highly Polished, Nickel-Plated, Dome Top, Velvet Lined Case; Silver Plated, Self-Stropping Razor; Package of 12 Blades; Selected Leather Strop.

	Each
No. 350	$5.50
No. 351—Same as Set No. 350 except Case has Diamond Design Embossing	$5.50



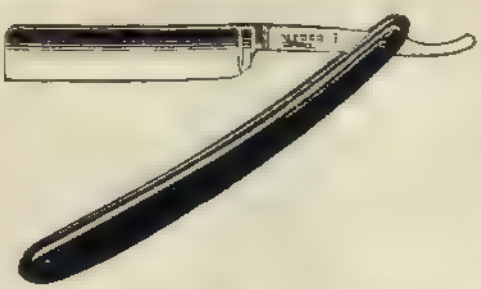
PARISIAN IVORY FLAT SET

Beautiful Parisian Ivory, Velvet Lined Case, Contents Same as Sets Nos 350 and 351

	Each
No. 400	$6 00

GENCO RAZORS

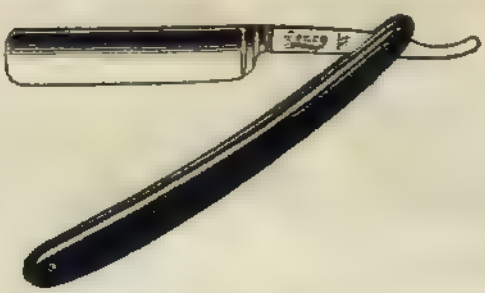
American Make of Absolutely High-grade. Made from the Best Razor Steel Under Modern Methods by Expert Workmen.



Concave File Tang. Black Rubber Handle.

		Per Dozen
No. 603—⅞-inch Blade.	Square Point	$24.00
No. 617—⅞-inch Blade	Round Point	24.00

Half dozen in a box.



Full Concave File Tang. Black Rubber Handle.

		Per Dozen
No. 601—⅞-inch Blade.	Round Point. Extra Finish	$48.00

Half dozen in a box.

Full Concave File Tang. Black Rubber Handle.

		Per Dozen
No. 602—⅞-inch Blade.	Square Point	$32.00
No. 614—⅞-inch Blade.	Round Point	32.00

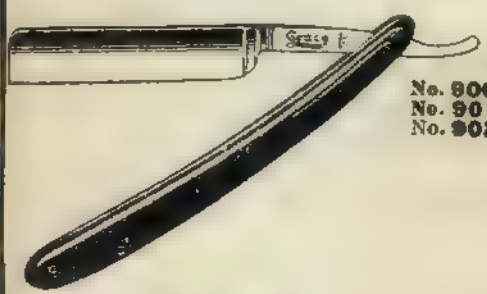
Half dozen in a box.

Full Concave Tortoise Shell Celluloid Handle Blade Bored from Vanadium Steel.

VANADIUM

		Per Dozen
No. 604—⅞-inch Blade.	Square Point	$40.00
No. 615—⅞-inch Blade.	Round Point	40.00
No. 606—⅞-inch Blade.	Square Point	40.00

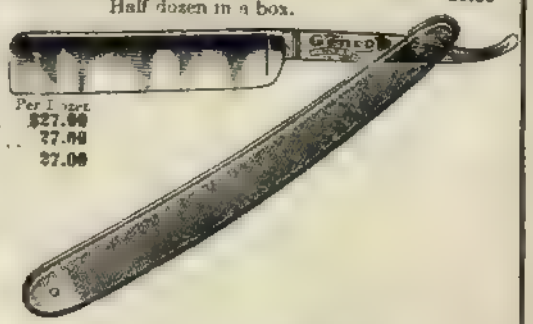
Half dozen in a box.



TORREY

Same Style as No. 600

		Per Dozen
No. 900—⅞-in	Sq. Pt.	$27.00
No. 901—⅞-in	Rd Pt.	27.00
No. 902—⅞-in.	Sq. Pt.	27.00



Full Concave File Tang Black Rubber Handle Extra Finish.

	Per Dozen
No. 600 — ⅞-inch Blade. Square Point	$40.00
No. 605 — ⅞-inch Blade. Square Point.	40.00

Half dozen in a box.

WORCESTER

Hollow Ground File Tang. Black Rubber Handle.

	Per Dozen
No. 710 — ⅞-inch Blade. Square Point	$40.00

GOLD SEAL

Full Concave. Gold Celluloid Handle Gilt Tang and Back of Blade.

	Per Dozen
No. 618 — ⅞-inch Blade Square Point	$48.00

Half dozen in a box.

BARLOW KNIVES

SUPPLEE-BIDDLE

3¾ Inches. Spear

	Per Dozen	
No. 141S—One Blade	$3 45	$8.00
No. 133S—Two Blades	3 45	12.00

One dozen in a package

INTERCHANGEABLE TOOL KITS

Each Tool can be Instantly and Firmly Locked in Handle of Pocket Knife

Per Dozen

No. 27 $26.00

One in a box

SLOYD KNIVES

Polished Hardwood Handle, with Tang Riveted Through Handle

SWEDISH	Per Dozen	MURPHY'S	
No. 502½—2½ Ins.	$7.00	**No. 1**—2½ Ins.	$7.50
No. 503—3 Ins.	7.50	**No. 1½**—3 Ins.	9.00

Half dozen in a package

H. H. H. POCKET KNIVES

Cuts Wire, Wood and Leather

Embodies Nine Tools: Pocket Knife, Leather Punch, Sweeging Awl, Wire Cutter, Wire Pliers, Alligator Wrench, Hoof Hook, Screw Driver, Screw Bit

Per Dozen

No. H. H. H. $30.00

Half dozen in a box

EAGLE POCKET KNIVES

One Blade, Spear Point. Bright Metal Handle.

Per Dozen

No. 11—3½ Ins. $2.50

One dozen in a box.

Two Blades, Spear Point. Bright Metal Handle.

Per Dozen

No. 21—3½ Ins. $4.00

Half dozen in a box

Two Blades, Clipped Point. Bright Metal Handle.

Per Dozen

No. 22—3½ Ins. $4.00

Half dozen in a box

Kelley-How-Thomson Co. of Duluth

KIDDIE KARS

Absolutely Safe, Almost Indestructible; Satisfies Younger Boys' and Girls' Desire for Action and Fun, Develops Thier Strength by Harmless and Joyous Exercise

The Seat, thick and strong, is of carefully seasoned selected Basswood, shaped and sanded perfectly smooth; Handle Bar and Steering Post of Selected Hard Wood; The large sized Crowned Wheels are of Rock Maple, cut and sanded to a glossy smoothness, will not warp or wrinkle out of shape. Front Wheel revolving on short steel axle, Rear Wheel attached to frame with large screws. Entire Kar Handsomely Finished Throughout in bright Aniline Dyes and Covered with Two Coats of Spar Varnish baked hard in varnish dry kilns.

Nos.	1	2	3	4	5
Height to Top of Seat, In.	7	8½	10	11¼	12¾
Length, In.	16	17	18	20	22
Weight Each, Lbs.	4½	5½	6½	6½	7½
Per Dozen	3¾				
	$15 00	24 00	30 00	36 00	42 00

Nos. 1, 2 and 3, Two Dozen; Nos. 3 and 4, One Dozen in a Package

CHILDREN'S AUTOMOBILES

Body is made of Sheet Steel and Selected Wood, Well Reinforced; Finished in Rich Gray, Striped in Black, Decorated in Red.

Inside Self-starter, Knuckle Joint Gear with Bumper, Black Enameled. Cast Steering Wheel, 10x3¼ inch Rubber Tire Wheels, Red Enameled, Nickel Plated Hub Caps.

Each

No. 202—Body, 30 in. Long, 12 in. Wide; Complete with Lamps and Horn $12 00

One in a Crate; Weight about 40 Lbs.

Body is made of Sheet Steel and Selected Wood, Well Reinforced; Red Body and Hood, Pea Green Front, Striped in Green and Yellow

Inside Self-starter; Knuckle Joint Gear with Bumper, Black Enameled; Cast Steering Wheel with Imitation Gas-Control Lever. 12x1¾ in. Rubber Tire Wheels, Red Enamel. Nickel Plated Hub Caps.

Each

No. 208—Body 35 in. Long, 13 in. Wide, Complete with Lamps and Horn $16 00

One in a Crate; Weight about 55 Lbs.

Body Made of Sheet Steel and Selected Wood, Well Reinforced; Finished in Torquoise Blue, Red Front Striped and Decorated in Dark Blue. Red and Yellow. Nickel Plated Trimmings on Radiator.

Inside Self-Starter, Knuckle Joint Gear with Bumper, Black Enameled; Cast Steering Wheel with Imitation Gas-Control Lever. 12x3½ in. Rubber Tire, Roller Bearing Wood wheels, Red Enamel. Nickel Plated Hub Caps.

Each

No. 216AW—Body 35½ in. Long, 13 in. Wide, Complete with Lamps and Horn $20 00

One in a Crate; Weight about 60 Lbs.

HAND CARS

GEAR DRIVE

For Children 3 to 8 Years of Age

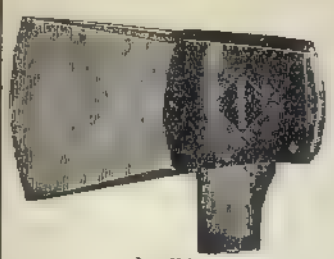
Steel Frame; 1x⅝ in. Flat Steel Frame Rails, Well Braced. Wheel Base 27 in., Tread 16 in.; Seat 12 in. from floor. Red Enameled Wheels, other parts Black Baked Enamel; Seat painted Red and Ornamented with transfers.

Each

No. 21½—8 and 12 in. Wheels, ⅜ in. Rubber Tires $8 00

One in a Crate; Weight about 30 Lbs.

HUNTERS' AXES



No. 370

Prices on Request

GERMANTOWN

Warranted Solid Tool Steel Fire Bronzed 18-in Curved Handle.

Per Dozen

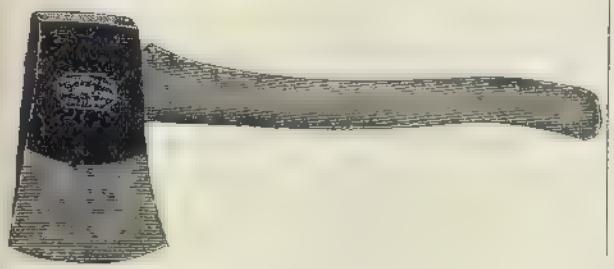
No. 370—Size 2. $

PLUMB

Gold Bronzed Polished Bits. Solid Crucible Tool Steel, Hand Forged Hickory Handle.

Each

No. 672—Size 0 Wt., About 1 Lb. 4 Ozs. ..... $



BEATTY

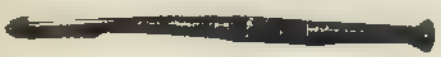
Best Cast Steel, Hardened and Tempered Black Painted Body, Polished Bit and Head Hickory Handle

Per Dozen

No. 64—Size 2 Wt., About 1¼ Lb. . . . $

Half dozen in a box

BARK SPUDS



HANDLED SOCKET

Hand Made. Polished Tool Steel Blade. Hard Maplewood Handle. Length of Blade, 7¼ Ins.

Per Dozen

No. 100—Length Over All, 31 Ins. $24.00

Loose. Weight, per dozen, about 36 lbs.

SCOUT AXES

PRICES ON REQUEST

BLACK HAWK WITH NAIL SLOT

Best Cast Steel, Hardened and Tempered, Black Finish Green Mission Wood Handle Sheath of Heavy Russet Leather.

Each

No. BH2 —Without Sheath Wt., 1 Lb. 5 Ozs . . . . $

No. BH2S—With Sheath. Wt., 1 Lb. 9 Ozs. . . . .

Half dozen in a box.

Sheaths Only

No. BHS—Wt., Per Doz., About 1 Lb. . . . . .

Loose.

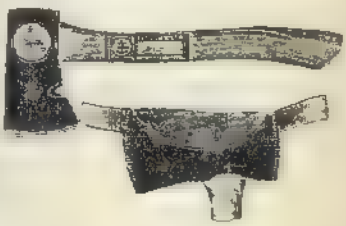
Handles Only

No. BHH —Green Mission Wood Finish

Two dozen in a box

PLUMB

WITH NAIL SLOT



Official Axe of the Boy Scouts. Black Finish. Green Mission Wood Handle. Wt., with Handle, 1 Lb. 5 Ozs. Sheath of Heavy Russet Leather.

Per Dozen

No. P47 —Without Sheath. Wt., 1 Lb. 5 Ozs. $22.80

No. P7SS—With Sheath. Wt., 1 Lb. 9 Ozs. 27.00

Half dozen in a box.

Sheaths Only

No. PS—Wt., Per Doz., About 1 Lb. 7.00

Loose

Handles Only

Per Dozen

No. PH—Green Mission Wood Finish . . . $8.00

Two dozen in a box.

SHIP CARPENTERS' AXES

PRICES ON REQUEST

BEATTY

First Quality. Heavy Cast Steel. Blue Finish. Polished Bit and Poll. 5 to 6½ Lbs. 6¼ to 6½ Ins. Cut.

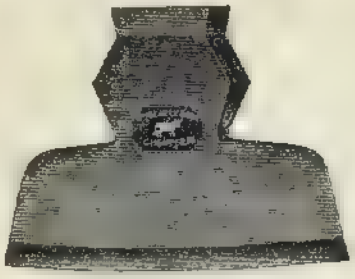
Each

No. 280 . . . . . $

BROAD AXES

BEATTY'S PENNSYLVANIA OR PITTSBURGH PATTERN

EXTRA QUALITY CAST STEEL. BRONZE FINISH



Assorted 6 to 7 Lbs. 10 to 11 In. Cut

	Per Dozen	
No. 167	$32.00	$84.35

Assorted 6½ to 7½ Lbs. 11 to 12 In. Cut

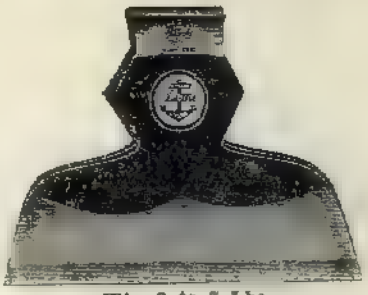
	Per Dozen	
No. 168	$32.00	$84.35

Assorted 7 to 8 Lbs. 11½ to 12½ In. Cut

	Per Dozen	
No. 169	$32.00	$84.35

PLUMB'S PENNSYLVANIA OR PITTSBURGH PATTERN

EXTRA QUALITY CAST STEEL. BRONZE FINISH



Wt., 6 to 7 Lbs.

	Per Dozen	
No. 691	$32.00	$84.25

Wt., 6½ to 7½ Lbs.

	Per Dozen	
No. 692	$32.00	$92.10

Wt., 6 to 8 Lbs.

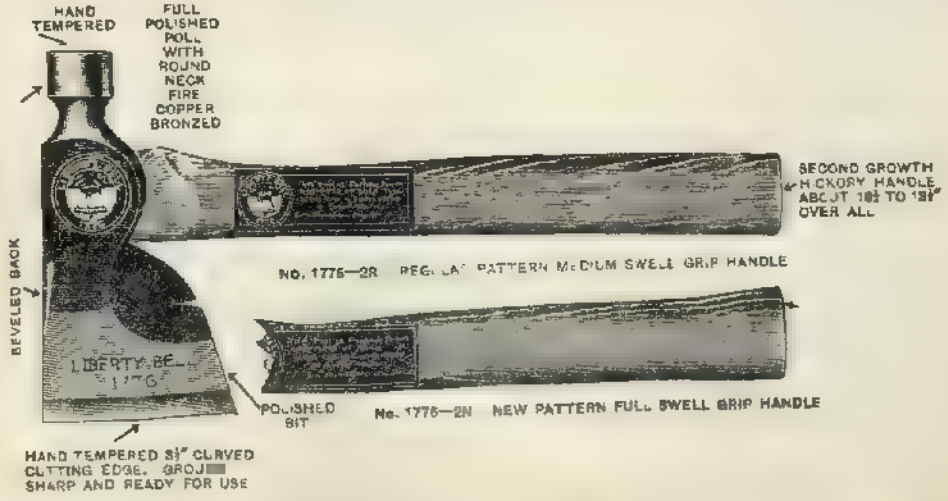
	Per Dozen	
No. 693	$32.00	$92.10

One dozen in a case.

HATCHETS

PRICES ON REQUEST

LIBERTY BELL—1776 LINE


HAND TEMPERED
FULL POLISHED POLL WITH ROUND NECK FIRE COPPER BRONZED
SECOND GROWTH HICKORY HANDLE ABOUT 10½ TO 13½" OVER ALL
BEVELED BACK
LIBERTY BELL
1776
No. 1776—2R REGULAR PATTERN MEDIUM SWELL GRIP HANDLE
POLISHED BIT
No. 1776—2N NEW PATTERN FULL SWELL GRIP HANDLE
HAND TEMPERED 3½" CURVED CUTTING EDGE. GROUND SHARP AND READY FOR USE

FIRE COPPER BRONZED BODY. FULL POLISHED POLL. HAND TEMPERED FULL POLISHED FACE. FIRE COPPER BRONZED ROUND NECK

	Per Dozen	
No. 1776-2R—Regular Pattern. Medium Swell Grip Handle		$
No. 1776-2N—New Pattern. Full Swell Grip Handle		$

Half dozen in a box. Two dozen in a case.

Most highly developed and popular selling toys on the market TODAY

GILBERT TOYS

They are nationally advertised which makes them easy for every merchant to sell

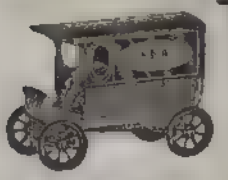
TOY AUTO AND DELIVERY TRUCKS

Racing Roadster ... red enameled steel body, yellow wheels and ... Size 7 inches long over guards, cowl, dash, front, nickel plated radiator, spiral spring action, each in box

P4255— Mfrs. P70 ... ½ doz. in box ... Doz. $8.40

Auto Truck 16x24½, red enameled body and wheels, yellow seat, nickel plated radiator, suspension spring frame, spiral spring action, operated by crank at front, each in box

P3385— ½ doz. in pkg. ... Doz. $8.40



Parcel Post Auto Delivery 9½x6... and vehicle body ... wheels ... spiral spring action, each in box

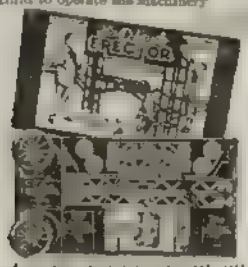
P4254— Mfrs. P70 ... ½ doz. in box ... Doz. $8.40

NEW WHEEL TOY SETS

Exceptionally popular assortment of wheel toys ... Each set can be used ... to build ... Go Cart, Velocipede, Coaster Wagon, Express Wagon, Garden Cart, Hand Truck, Scooter, Kiddie Kar, Tricycle

"ERECTOR" TOYS

Full set of gears, pinions, crown gear, [illegible] Each with [illegible] Manual and gear box enables the child to operate the machinery



[illegible] trainsaw. Each with screw driver nuts screws and bolts

F3601 (Mfrs. 6). 69 models in Manual No. 1. [illegible] Set $4.40

F3602 (Mfrs. 1). 112 models, large and small girders, cross pieces, angle irons, pulleys with adjustable screw sets, round steel pieces and crank, large supply of nuts and bolts. ½ doz. sets in pkg. Doz. Sets $16.00

F3603 (Mfrs. 2). 143 models [illegible] adjustable set screw 4 red painted double spoke wheels for pulley toy construction, large supply nuts and bolts, [illegible] 1 set in pkg. Set $2.45

F3604 (Mfrs. 3). 207 models, large supply all size girders, angle cross pieces, nuts and bolts, two 3x6 base plates, one 3 in steel disc for working out [illegible] 1 pair of wheels, 1 pair 4 in enameled double spoke wheels for pulley toy construction and screw. 1 set in pkg. Set $3.67

F3605 – (Mfrs. 6). 285 models, bridges, small buildings, etc., large supply 3 different size girders, cross [illegible] and beams [illegible] wood strip inside. The following 8 [illegible] Set $7.00

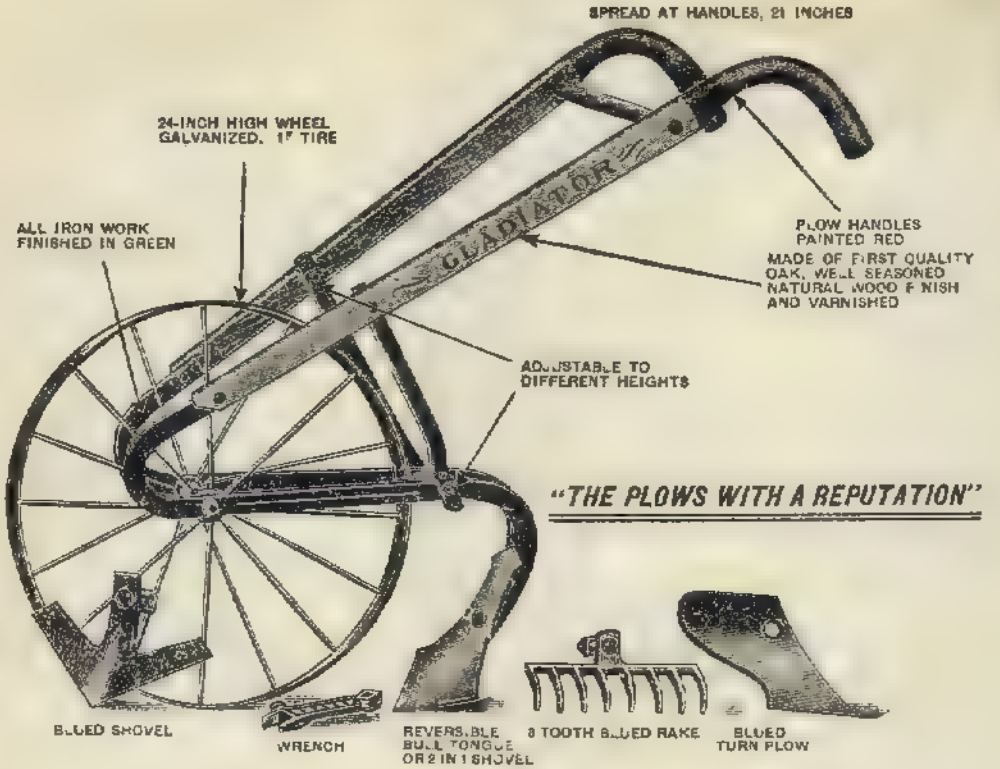
F3606 (Mfrs. 7). All sizes of [illegible] reversing base, supply of nuts and bolts, cabinet [illegible] 4 set in pkg. Set $10.00

F3607 [illegible] etc., all size girders, cross pieces, angle irons, gears, pinions, pulleys, wheels for pull toys, aeroplane propeller, [illegible] large extra supply of nuts and bolts, cabinet has 2 [illegible] 2 set in pkg. Set $16.67

MAGIC SETS

At unit [illegible] number of [illegible] A [illegible] with [illegible] and [illegible] with [illegible] and [illegible] with [illegible] and

GARDEN PLOWS


SPREAD AT HANDLES, 21 INCHES
24-INCH HIGH WHEEL GALVANIZED, 1" TIRE
ALL IRON WORK FINISHED IN GREEN
GLADIATOR
PLOW HANDLES PAINTED RED
MADE OF FIRST QUALITY OAK, WELL SEASONED NATURAL WOOD FINISH AND VARNISHED
ADJUSTABLE TO DIFFERENT HEIGHTS
"THE PLOWS WITH A REPUTATION"
BLUED SHOVEL
WRENCH
REVERSIBLE BULL TONGUE OR 2 IN 1 SHOVEL
3 TOOTH BLUED RAKE
BLUED TURN PLOW

GLADIATOR

Each

No. 200—As Illustrated and with Tools as Shown.... $8.50

One in a Bundle.

BATEMAN

Very Useful for Opening Furrows for Seeds and Manures, for Covering them, and for Tending the Crops Afterward. Highly Polished Steel. Has Side Handle, Regulated in Depth by a Thumb Nut.

Per Dozen

No. 39—Handle Measures 59 Ins. Handle Varnished and Painted. Plow Part High Grade Steel. Polished Edge.. ..... $43.00

Quarter dozen in a bundle.

FIRE FLY

Useful to Owners of Small Gardens. Will Throw a Furrow 4 to 6 Ins. Wide and 1 to 3 Ins. Deep, and Deeper by Going Twice. Furrows for Manure or Seeds can be Opened and Covered. This Tool will do Nearly All the Work of a Family Garden. Chicken Raisers Find it of Great Advantage in Plowing Up Their Scratching Yards.

No. FF—Weight, Each, About 4 Lbs..... $6.70

One in a bundle.

WHEEL PLOWS

COMBINATION CULTIVATORS AND PLOWS

Does the Necessary Plowing in Many Soils Opens Furrows for Seed or Fertilizer and Covers on the Return Trip Has Two Sizes of Single Teeth that Work Between Narrow Rows Landside Plow, a Scuffle Hoe and Set of Three Teeth on One Bracket for Hoeing and Cultivating Between the Wider Rows The Distinctive Feature of this Tool is its High Steel Wheel, 24 Inches Which Some Sections Seem to Prefer. The Frame is an All Steel Arch in Three Parts Compact, Light and Durable. The Working Tools are Attached in Position Easily and are Adjustable.

	Each
No. 190	$7.20

A Light, Graceful Tool that Can be Used as a Wheel Plow Anywhere, but is Especially Recommended for Turning Under Accumulations in the Poultry Yard. Will Plow from Three to Four Inches Deep, and Throw a Furrow Four to Six Inches Wide Easy to Push and Perfect in its Work Has Bicycle Construction, 16-inch Steel Wheel and Steel Tube Frame

	Each
No. 11	$9.20

EXTRA BOLTS

	Per 100
No. 240—For Cultivator Points and Steels	$6.00

Headquarters for Bicycles and Sundries

See Separate Catalog

TREE ORNAMENTS GLASS TINSEL

Beautifully made. The sizes, shapes and designs are far superior to many others on the market at the same prices. You can do a big, profit-paying business during the holidays by arranging an attractive display. Note the many blown glass ornaments. Order your holiday supplies now

BLOWN GLASS TREE ORNAMENTS

Extremely light yet durable, packed carefully to avoid breakage. Full assortment of round, elongated and pear reflectors, egg shape, fancy shapes, etc. Each with cap and wire loop for hanger.

F4311—2 in. bright glass ball, asstd. red and green glittering mica band center. Assted. 3 doz. in box. . . . . 1 doz. 45c

(Total $1.20)

F4314—2½ x 1 wide cutting, new bell shape, beautifully painted xmas scenes in assted colors. 3 doz. in box . . . . . 1 doz. 45c

F4310—2 in. bright finish bell, assted. colors, green, red silver etc. Assted. 3 doz. in box. . . . . 1 doz. 48c

(Total $1.44)

F4348—2½ in. assted. colors, blue, green, red and silver. Assted. 1 doz. in box. Doz. 60c

F4331—3 in., bright red balls. 1 doz. in box. Doz. 89c

F4336—3½ in. bright silver and assted. color balls, fancy pattern corrug. reflector base, assted. color striped and tinted. 2 doz. in box. . . . . Doz. 95c

(Total $1.90)

F4306—3½ in. striped silver ball bright finish, wide vari-color stripe center. 1 doz. in box. . . . . Doz. 95c

F4329—3½ x 2 oval shape green and red transparent glass ornament, 4 wide vari-color wax-bands. 1 doz. in box. . . . . Doz. 89c

F4334—3 in. fancy top, 1 wide vari-color stripe center, 2 narrow stripes. Assted. 1 doz. in box. Four 89c

F4335—3 in. assted. colors, red, blue, green, red and silver. 1 doz. in box. . . . . Doz. 90c

F4336—3 in. striped wax ball, wide bright red stripe in center, 2 narrow blue stripes. 1 doz. in box. . . . . Total $1.20

F4343—3 in. assted. red and green transparent glass ball, 4 bright vari-color mica bands. 1 doz. in box. . . . . Doz. 89c

Fancy Twist Center—3½ in. bright silver twisted ribbed center, brilliant effect. 1 doz. in box.

F4316—Vari-color twist center. Doz. 92c

F4317—Solid color twist center, red, green, blue, gold etc. . . . . Doz. 92c

F4345—3½ in. assted. color bright finish heart, deep reflector center in contrasting colors, assted. red, green, blue and silver. Very attractive ornaments. 1 doz. in box. Doz. 95c

F4325—3" in. strawberry, bright finish, red, green, gold tone etc. Assted. 1 doz. in box. Doz. 95c

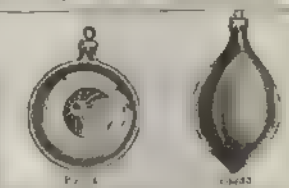
F4287—3 in. "Merry Christmas" ball, white stripe through center, printed "Merry Christmas" 2 narrow red stripes. 1 doz. in box. . . . . Doz. 92c

F4320—3½ in. bright corrug. oval, hard center with embossed tree assted. red, green, blue and silver. 1 doz. in box. Doz. 95c

F4321—3½ in. oval, bright finish, solid red, green, blue, gold and silver. Assted. 1 doz. in box. . . . . Doz. 95c

F4313—3½ in. fancy heart, bright silver, assted. color reflectors and stripes. 1 doz. in box. . . . . Doz. 95c

F4305—Musical Instrument, 3 in. ball, in assorted color reflectors, attractive ornament, value. Assted. 1 doz. in box. Doz. 95c



F4314—3 in. bright silver ball, various tree reflectors. 1 doz. in box. . . . . Doz. 95c

F4314A—3 in. oval, matt finish silver, pink, gold etc. Assted. 1 doz. in box. Doz. 95c

F4323—3 in. ball, pink gold and silver matt finishes. Assted. 1 doz. in box. . Doz. 95c

F4318—3 in. round assted. colors, 2 reflectors. Assted. 1 doz. in box. . . . . Doz. 95c

F4315—3½ in. ball, bright gold, pink, silver etc. 8 vari-color reflectors. 1 doz. in box. Doz. 95c

F4310—Santa Claus, 3½ in. frosted finish, [illegible] assted. features, [illegible] 6 doz. Total $2.00. Doz. 95c

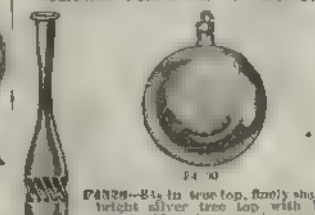
F4304—Fancy horse, 6 in. well modeled, bird tinted in bright colors, loop handle. 2 doz. in box. . . . . Doz. $1.00

(Total $2.00)

F4309—4 in. grape cluster with 4 contrasting color leaves in silver, gold or green, beautiful color combinations in matt and transparencies. 1 doz. in box . Doz. $1.60

F4303—3½ (3 doll) head, face and hair in contrasting colors, tinted features, red painted ribbon design. 1 doz. in box. . Doz. $1.50

F4308—4 in. grape cluster with 4 contrasting color leaves in silver, gold or green, beautiful color combinations in matt and transparencies. 1 doz. in box . Doz. $1.60



F4328—8½ in. tree top, finely shaped bright silver tree top with ball point, wide twist center in contrasting [illegible] and gold. 1 doz. in box . . . . . Doz. $2.10

F4100—4 in. bright assted. red, green, gold, silver and pink balls. 1 doz. in box. . . . . Doz. $2.10

BLOWN GLASS BEADS OR BALLS—Put Up On String

F9887

F9888

F9889

F9890

F9884—[illegible] 1 in. red, green, blue, gold and silver beads alternating with bright silver balls. 6 ft. in box. . . . . Doz. 42c

F9885—Aver. length 10 in., ten ½ in. red, green and silver beads on string. 3 doz. in box. . . . . Doz. 87c

F9886—[illegible] 1 in. beads, alternating red, green, gold, silver and [illegible] box. . . . . Doz. 87c

F9888—1½ in. large [illegible] in. bead, iridescent finish, alternating with silver and 2 gold balls. 2 doz. to box. . . . . Doz. 87c

F9889—[illegible] 1 in. large [illegible] in. red, green, gold, silver and [illegible] box. Doz. 85c

"ST. NICK" TREE ORNAMENT ASSORTMENT

An extraordinary assortment combining beauty, value and [illegible]. All items are American manufactured.

F4140—Pink, blown and molded ornaments [illegible] fancy pearl effects, attractive matt and bright finishes, [illegible] reflectors, [illegible] designs with reflectors. Each asst. in wood case. [illegible]

3 doz.	1½ in. ball, assted. color bands.
3 "	1½ in. ball, 2 color reflectors.
3 "	3½ in. polished ball, assted. red, green, blue, silver and gold
1 "	grape clusters, assted. colors.
1 "	silver hearts, with vari-colors reflectors and bands.
1 "	silver ball, with assted. color reflectors.
1 "	lanterns, assted. colors.
1 "	matt and shed balls, assted. blue, green, red, silver and gold reflectors.
"	tubes, some with vari-colors stripings, others solid.
"	orange shape, assted. red, green, blue and silver.
"	[illegible] silver oval shape, 2 colors, [illegible]
"	[illegible] oval shape, matt and bright finishes, assted. red, green [illegible] and silver.
1 "	[illegible] shape, air brush finish in natural colors.
1 "	[illegible] bright finish balls in red, green, blue and silver.
1 "	[illegible] red, green, blue and silver with 2 colors corrugated [illegible].
2 "	1½ in. bright finish balls in assted. red, green, blue and silver.
2 "	large oval silver finish balls with cluster center in assted. colors.

ASST. 24 doz. **$29.00**

TINSEL AND GLASS BEAD ORNAMENTS

Large showy pieces, latest design brilliant blown glass ornaments combined with silver tinsel. All on wire frames, with wire hangers

F4016—2 styles, aver. 9½ in., tinsel sprig and cluster. Asstd. 1 doz. in box (Total 96c) Doz. $1.10

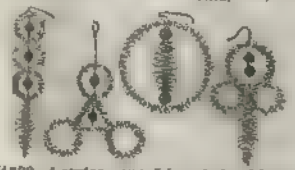
F4013—6 styles, aver. 8½ in., graduated [illegible] and [illegible] with [illegible] bead [illegible] Asstd. 6 [illegible] Two Total 8, 11 Doz 19c

F4043—6 styles, aver 4 in., diamond, [illegible] pendants, etc., satin heavy tinsel, large [illegible] colored bead centers. Asstd. 2 doz. in box Total 86c Doz. 34c

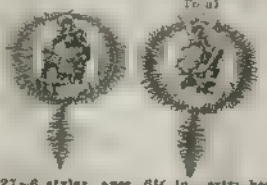
F4017—4 styles, aver 4½ in., harp, [illegible] round heavy tinsel shapes with tinsel pompons, pendant and drop with bead ornament center. Asstd. 2 doz. in box Temp Out Total

F4026—6 styles, aver 6 in., graduated fancy tinsel circle with tapered drop. Asstd. 2 doz. in box. (Total 70c) Doz. 35c

F4047—3 styles, 4 in., heart shape, star and fancy colored paper star centers with tinsel [illegible] graduated tinsel [illegible] in box Temp Out Total



F4023—4 styles, aver. 5 in., circle with graduated cross bar center, tapering shamrock with small lady circles and beads, fancy triangle all with 2 or more colored bead ornaments. Asstd. 2 doz. in box Temp Out Total



F4027—6 styles, aver 6½ in., extra heavy graduated tinsel circle with tapered drop. Asstd. 1 doz. in box Doz. 43c

F4049—12 styles, aver. 5½ in., extra heavy tinsel in graduated sprays, attractive designs, [illegible] colored bead [illegible] Asstd. [illegible] box Total 86c Doz 43c

F4044—4 styles, aver., 6½ in., triple circle with pendant, 4 point shape, heart with circle and 4 leaf shamrock, heavy tinsel, large and small beads. Asstd. 1 doz. in box Temp Out

F4029—6 styles, aver. 6 in., graduated tinsel circle and tapered drop with [illegible] in [illegible] in box Doz 87c

F4015 F4016

F4015—4½ in., graduated bell and tinsel ornaments, closely woven, 1½ in. bright bell in asstd. colors with tongue. 1 doz. in box Doz. 83c

F4018—5½ in. bell and tinsel ornament full extra heavy grade, gold finish fancy pattern, 1 in. asstd. color brush bell center. 1 doz. in box Doz $1.25

F4036—Medium wt., closely woven tinsel with 3 tinsel drops to yd., 1 yd. lengths. 1 doz. yds. in box Doz yds 42c

EXTRA BRILLIANT NOVELTY TREE ORNAMENTS

Practically unbreakable, novelty shapes of fiber covered with scintillating silver glass, extremely brilliant. Note large size and original designs. All cord hangers

F4032—6 styles, aver. 2½ in., flying bird, star, harp, etc. Asstd. 2 doz. in box. (Total $1.05) Doz 35c

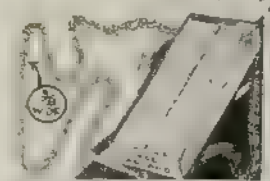
F4031—Bell, lt. 3½ in., red inside, 1 doz. in box Doz. 45c

F4035—6 styles, aver. 3 in., bird and star in circles, bell in wreath, angel, etc. Asstd. 1 doz. in box Doz. 45c

F4039—6 styles, aver. 6¼ in., attractive heavy tinsel designs, cross, clover, heart, etc., some with graduated pendants, most with 3 or more asstd. color beads, some with 1½ in. ball ornament in center. Asstd. 1 doz. in box Doz. 88c

TINSEL—Gold and Silver

Extra full, heavy silver and gold tinsel plain rope, scalloped and with tinsel and colored bead ornament. All tinsel standard width unless specified

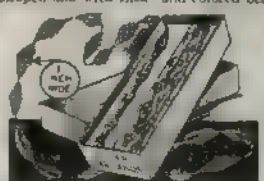


Heavy—3 doz. yds. in box. [illegible] yds. for 5c

F4037—Silver
F4045—Gold
Doz. yds. 24c
(Total 72c)

Extra Heavy [illegible] doz. yds. in box

F4038—Silver
F4046—Gold
Doz. yds. 39c
(Total 78c)

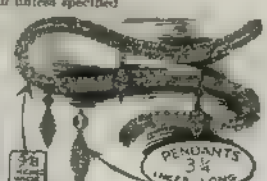


Scalloped ornamental silver tinsel extra full, 6 yd. pcs.

F4063—2 doz. yds. in box. (Total 84c) Doz yds 42c

Extra Brilliant Width [illegible] closely woven, long strands. Retails at 10c a yd., 6 yd. pcs.

F4039—1 doz. yds. in box Doz yds. 83c

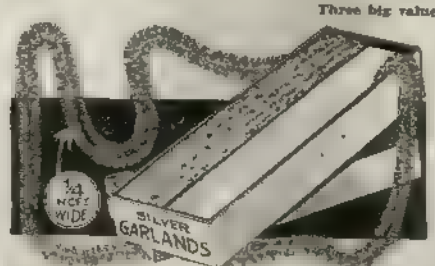


Beads and Pendant Drops—Heavy silver tinsel, 3 asstd. color bead ornaments and graduated tinsel drops to a yd., 1 yd. lengths

F4058—1 doz. yds. in box Doz yds 90c

TINSEL TREE DECORATIONS

Three big values in new designs, very showy pieces, heavy, closely woven tinsel



F4041—4 in., extra closely woven and full heavy silver tinsel garland, strung cord center, very brilliant. 2 doz. yds. in box. (Total 86c) Doz. yds. 43c

F4018—6 styles, ornament centers. Full length 6 in., large graduated tinsel circle with graduated drop, 3½ in. oval glass ornament center asstd. color hand painted designs. Asstd. 1 doz. in box Doz 89c

F4021—3 styles [illegible] tinsel patterns, ornament centers heart shape, round and fancy, extra heavy graduated tinsel 3¾ in. oval ornament with drop reflectors, graduated tinsel drop. Asstd. 1 doz. in box Doz $1.25

GLASS FRUIT JARS

GENUINE DOUBLE SEAL LIGHTNING

FLINT GLASS

Glass cover. Steel spring wire fits in groove on top of cover. Opened by pushing bottom wire upwards. Complete with Good Luck rubbers.

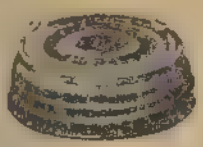
Nos.	Pints	Quarts	Halves
Ship wght dozen, lbs	14½	19	25
Per dozen	$2.00	2.50	3.00

One dozen in partitioned corrugated straw board shipping box.

JAR CAPS

MASONS

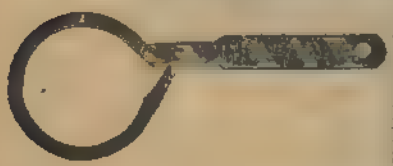
Zinc, white porcelain top lining. Without rubbers..



No.	1
Diameter, inch	3
Depth inside, inch	⅞
Shipping weight per gross, lbs.	13
Per gross	$6.00

One or one-half gross in a carton.

FRUIT JAR WRENCHES AND GRIPPERS



Steel nickel plated. Pulling handle tightens grip.

No.	168
Length, inch	6
Dozen in case	60
Net wt per doz, lbs.	2
Ship wt case, lbs.	150
Per dozen	$1.50

HANDY WRENCH

Spring steel wire, fits Mason jar caps. Wood handles.

No.	Handy Wrench
Dozen in carton	1
Case contains, doz.	36
Ship wt cs, lbs.	75
Per dozen	$1 20

HANDY GRIPPER

Same as Handy wrench, except wire is rubber covered to protect jar. By this use a bottle can be firmly held with one hand while the other hand tightens cover. Natural grip of hand tightens grip on cover and jar. Gripper in 3 sizes, for pints, quarts and halves.

No.	Handy Gripper
Case contains, doz.	6
Ship wt cs, lbs.	18
Per dozen	$2.40

Two pints, eight quarts and two halves in a carton.

No broken packages sold.

JAR RUBBERS

GRAY

High grade gray rubber. All 10/32-inch wide. 27/12 stock 12, 27/10 stock 10 per inch.

Nos.	27/12	27/10
Gross in carton	12	12
Shipping weight per carton, lbs.	28½	31
Per gross	$1.20	1.80

RED

No.	Goodluck
Gross in carton	12
Shipping weight per carton, lbs.	30½
Per gross	$1 80

MASON FRUIT JARS

Manufactured by Schram Glass Mfg. Co.

Clear flint glass. Without rubbers.

Nos.	Pints	Qts	½-gal
Carton, dozen	1	1	1
Shipping weight per gross, lbs.	127	175	265
Per dozen	$1.35	1 60	2 25

JELLY GLASSES

HORSESHOE

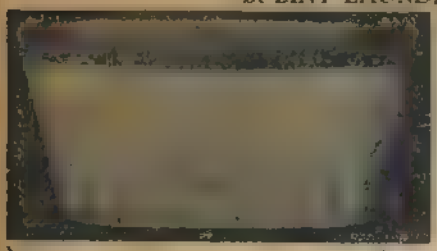
Tin Capped

Tall or squat pattern, same price.

Capacity, ozs	6	8
Capacity, pints	½	½
Carton, dozen	6	6
Shipping weight per carton, lbs.	33	37
Per dozen	$0.75	.75

BASKETS

SPLINT LAUNDRY



Reinforced top and bottom, with solid board bottoms. Wood grip wire handles.

Nos.	2	3	4
Size, inch	18x28x11½	19x30x12	20x32x12½
Shipping weight dozen, lbs.	36	42	48
Per dozen	$13 80	15.00	16.20

WILLOW MARKET

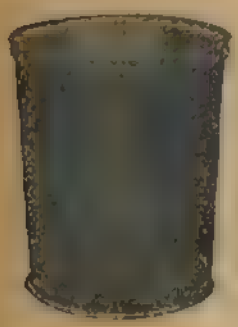
Twisted top binding and handle.

Size top, in	14x9	15½x10
Depth, in	6	7½
Nt wt ea, lb	¾	1
Size top, in	17x12	19x14
Depth, in	8½	9
Nt wt ea, lb	1½	1¾

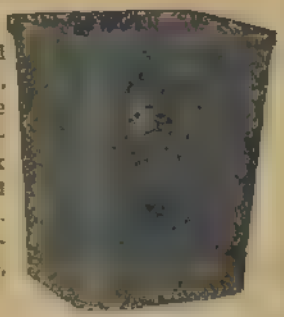
No. 3928
Nested 3
Ship wgt nest, lbs 3½
Per nest $3.50

Sold in nests only.

FIBRE WASTE



Vulcanized fibre. Smooth, solid walls make these easy emptying. Do not break or dent. Solid wood bottoms. Round are mahogany. Square, olive finish.



Nos.	Round B 1	Round B 2	Square D 5
Diameter top, inch	10	12	12x12
Diameter bottom, inch	8	10	10
Depth, inch	12	24	14
Net weight per dozen, lbs.	18	25	34
Shipping weight per dozen, lbs.	20	27	36
Per dozen	$16 20	18 00	30 00

ROUND WILLOW WASTE

Braided top, reinforced sides.

Nos.	0	1
Diameter top, inch	11	12½
Height, inch	13½	14½
Ship weight dozen, lbs	9	11
Per dozen	$15 00	18 00

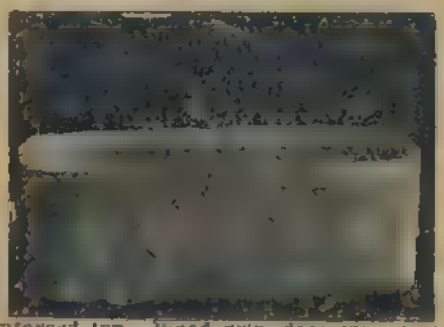
Nos.	2	3
Diameter top, inch	14	14½
Height, inch	15½	16
Ship weight dozen, lbs	14	16
Per dozen	$21.00	24.00

SPLINT COVERED SATCHEL

Reinforced edges. Wood grip, drop wire handles.

Nos.	2	3
Size, inch	10½x7½x9	12¾x9x10
Shipping weight per dozen, lbs.	8	10½
Per dozen	$4.80	5.40
Nos.	4	5
Size, inch	14½x10¾x12	16x12x13
Shipping weight per dozen, lbs.	12	18
Per dozen	$6 00	7.20

SPLINT OPEN MARKET



Reinforced top. Wood grip, drop wire handles.

Nos.	3	4	5
Size, inch	14x8x5½	15x9x6	19x10x6¼
Shipping weight dozen, lbs.	5	6½	8
Per dozen	$3.00	3.60	4.20

WILLOW CLOTHES

Selected unsplintered willow, closely woven. Twisted top binding and handles, reinforced sides and bottom.

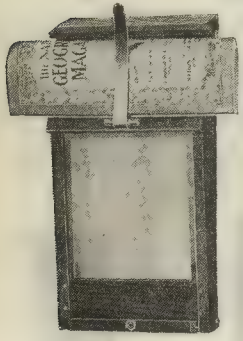
Nos.	1	2	3	4
Lgth top over handles, approx, in.	26to27	28to29	30to32	33to36
Width top, approximate, inch	19	20½	23	23½
Length bottom, approximate, inch	16	18	20	23
Height, inch	12½	13	13½	13½
Shipping weight, dozen, lbs.	27	32	49	54
Per dozen	$36.00	42.00	45 00	54.00

MAIL BOXES

"[illegible]"

A Perfect Letter Box for the Man Who Prizes the Appearance of His Home

Constructed of Polished Plate Glass, Nickel Plated Brass and Select Kiln-dried Wood. All Attachments are Non-rustable and will Stand the Test of Time. May be Attached by Any one to the Casing, Door or Wall of a House—Frame or Brick. It is Accessible to the Postman at all times, regardless of screen doors. The Postman Deposits Mail easily and with one hand. The hand which raises top deposits letters and, as well, fastens papers and magazines under the spring clasp.



[illegible]

Size, 11¾x5½x3¾ in.; Frosted Glass Front; Hinged Top; Spring Bottom, with Lock

	Per Dozen
No. 01—Oak Finish	$30.00
No. 02—Dark Mahogany Finish	30 00
No. 03—Mission Green Finish	30.00
No. 04—White Enamel Finish	30 00

One-twelfth Dozen in a Box; Weight per Dozen 25 Lbs.

[illegible]

Size 11¾x6x3¾ in.; Full Frosted Plate Glass Front and Sides; Nickel Plated Metal Cover over top; Front Swings on Patented Spring Pivots, which is Securely Locked by Concealed Lock.

	Per Dozen
No. 1—Oak Finish	$50.00
No. 2—Dark Mahogany Finish	50.00
No. 3 Mission Green Finish	50.00
No. 4—White Enamel Finish	50.00

One-twelfth Dozen in a Box; Weight per Dozen 35 Lbs.

MAIL BOXES

AJAX

Absolutely Rain-Proof

Wrought Steel, Size 11¾x6x2¼ in.; Door Opens Full Length; Improved Indestructible Clip for Newspapers and Packages, will not break off; Glass Panel and Card Holder for Owner's Name; Flat Keyed Spring Lock with Two Keys. Door locks Automatically when closed.

	Per Dozen
No. A2—Dull Black Finish	$16.00
No. A4—Sherardized Finish	18.00

One Dozen in a Carton; Weight 25 Lbs.

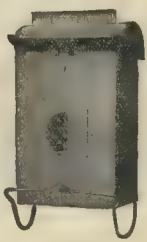
STANDARD

Opens Like a Book

Heavy Wrought Steel, Size Inside 5¼x11-x2¼ in.; Has Front, Allowing it to "Open Like a Book," No Rough Edges to Reach Over; No Restricted Openings to Reach Through. Equipped with New Paper Holder which will Hold Anything from a Post Card to a Magazine; Good for Out-going as well as In-coming Mail. New Fastening Device may be used Either as a Lock or Latch. Two Flat Steel Keys

	Per Dozen
No. A—Black Enameled Finish	$12.00
No. B—Brushed Brass Finish	15.00
No. C—Oxidized Copper Finish	15.00

Two Dozen in a Case; Weight 45 Lbs.

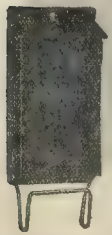


CITY GEM

Galvanized Steel; Size 10x6x3 in.; Riveted Points; The Dove Letter Hole has a Guard to prevent removal of letters; Glass Covered Peep-hole in Door. Equipped with Package Holder.

	Per Dozen
No. 6—With **Padlock Staple**; Olive Green Finish	$10.75
No. 5½—With **Lock and Two Keys**; Aluminum Bronze Finish	12.50

Each in a Holder, One Dozen in a Carton. Weight per Dozen, about 30 Lbs.



CITY JEWEL

30 Gauge Sheet Steel, Size 11x5x1½ in.; Equipped with Package Holder, and Padlock Staple.

	Per Dozen
No. 16—Gloss Black Japan Finish	$2.50

Six Dozen in a Corrugated Container. Weight per Dozen, about 8¼ Lbs.

AJAX

Wrought Steel, Size 11¾x5x3 in.; Drop Front Door; Letter Opening Protected; Tempered Steel Clip for Newspapers and Packages. Glass Paneled Name Plate.

	Per Dozen
No. E1—Glossy Black Japanned	$6.25
No. E4—Sherardized Finish	9.00

One Dozen in a Carton; Weight 35 Lbs.

CAST IRON

Black Japanned, Gilded Letters; Slot Protected by Hinged Lid; Hinged Front Raises Up to Remove Mail, to be Fastened with Padlock: Slide Near Bottom Opens to Permit View of Contents.

	Per Dozen
No. 1—Size 12x5¾ in.	$8.00

Weight per Dozen About 39 Lbs.

BASE BALLS

The Constant and Increasing Demand for Goldsmith's Guaranteed Athletic Goods was Created by the Satisfaction and Service that these goods have given.

Used and Indorsed by the Most Famous Ball Players: MATHEWSON, MAGEE, CHASE, MEYERS, HOBLITZEL, GOWDY, WAGNER, JOHNSON, KILIFER, SMITH, CLARK and Hosts of Others.

Goldsmith Guarantee Means a Satisfied Customer or the Article Replaced.

The Peer of All League Balls
"Goldsmith No. 97"
Guaranteed for 18 Innings
Against Softening, Losing its Shape or Elasticity

Adapted and used as the Official Ball by the following Leagues.

Northern League	K. I. O. League
Western League	Wis.-Illinois League
Ohio-Pennsylvania League	Montana State League
Pacific Coast League	Southern Cal. League
Western Association	Ohio State League
Kansas State League	

Used Exclusively by the **Universities of Texas, Idaho, Washington, Georgia, Louisana, California, Mexico and a host of Minor, City and Amateur Leagues, Y. M. C. A. Leagues and the U. S. Army.**

Each Ball is Hand Sewed with Red and Black Linen Thread, by the Two-Needle Lock-Stitch Process. Wrapped in Tissue Paper and Tinfoil, Packed in a Separate Box, and Sealed.

Per Dozen

No. 97—Guaranteed for Eighteen Innings $30 00

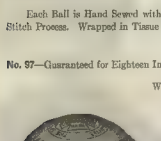
Weight in Box 4¼ Ounces

REACH
Official American League Ball
Sewed with Blue and Red Colored Linen

Per Dozen

No. 0—Officially adopted by the American League and Recognized by the National League; Conforms to all League Requirements, Made of Best Quality Wool Yarn, with Best Para Rubber Center, Covered with Finest Horsehide. A Very Popular Ball with the Sporting Trade. $30 00

One Dozen in a Carton
Weight per Dozen, about 4¾ Lbs.



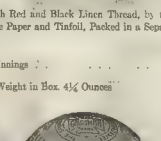
ARMY AND NAVY
League Ball

A Great Favorite in the various cantonments. Selected Wool Yarn Wound over a Pure Rubber Center; Genuine Horsehide Cover, Hand-Stitched; Very Elastic and Durable; Regulation Size and Weight; Guaranteed for Nine Full Innings.

Per Dozen

No. 89—Army and Navy. . . . $24.00

In Separate Sealed Carton



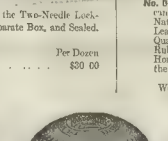
OFFICIAL MUNICIPAL
League Ball

A Ball of Unusual Merit. Pure Para Rubber Center, Wound with Fine Quality Wool Yarn; Horsehide Cover, with Red and Green Stitching; Warranted Official in every respect.

Per Dozen

No. 91—Official Municipal. . $18 00

In Separate Sealed Carton



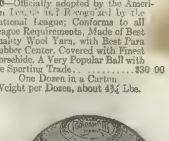
OFFICIAL PRACTICE
Full Regulation Size

One - ounce Rubber Center, Wrapped with Heavy Yarn under tension to give greater resiliency, Horsehide Cover, Hand Stitched.

Per Dozen

No. 76—Official Practice. . . . $15.00

Packed in a Sealed Box



NEW YORK CLUB
Full Regulation Size and Weight

Made of Compressed Wool Felt, with a Rubber Center, giving it lots of rebound. Carefully Hand Stitched, Strong, White Leather Cover.

Per Dozen

No. 47—New York Club . . . $6 60

Separately Packed in Sealed Box

Weight about 4 Lbs. per Dozen

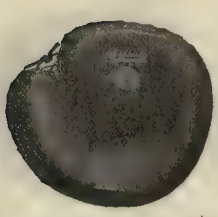
BASE BALL ASSORTMENTS

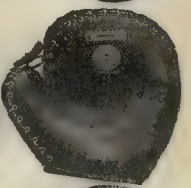
A Most Convenient and Complete Baseball Assortment which will Help the Retailer Very Materially in Supplying the Demands of the Trade

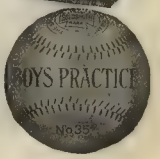
This Assortment is gotten up for the Retail Dealer whose Trade is Limited to Staple Base Ball Articles.

QUICK SALES — *LARGE PROFITS*

ASSORTED FOR READY SALE—PACKED FOR QUICK SHIPMENT—INCLUDES ALL ADVERTISING







ASSORTMENT CONSISTS OF THE FOLLOWING:

		Each	Total Selling Price
1/6 Dozen No.	97—League Ball	$ 2.50	$ 5.00
1/6 Dozen No.	98—Base Ball	2.00	6.00
1/3 Dozen No.	70—Base Ball	1.25	5.00
1/2 Dozen No.	45—Base Ball	.30	1.80
1/2 Dozen No.	17 -Base Ball	[illegible]	1.80
1 Dozen No.	35 Base Ball	.12	1.44
1/12 Dozen No.	73—Fielders' Glove	5.50	5.50
1/12 Dozen No.	69—Fielder's Glove	4.50	4.50
1/12 Dozen No.	57—Fielder's Glove	3.50	3.50
1/12 Dozen No.	43 Fielder's Glove	3.00	3.00
1/6 Dozen No.	23—Fielder's Glove	2.25	4.50
1/3 Dozen No.	17 -Fielder's Glove	1.35	4.05
1/3 Dozen No.	14 —Fielder's Glove	1.00	3.00
1/12 Dozen No.	225 Catcher's Mitt	7.00	7.00
1/12 Dozen No.	209 Catcher's Mitt	4.00	4.00
1/12 Dozen No.	189 Catcher's Mitt	3.00	3.00
1/12 Dozen No.	185—Catcher's Mitt	2.25	2.25
1/6 Dozen No.	182 - Catcher's Mitt	1.50	3.00
1/12 Dozen No.	132 Baseman's Mitt	4.00	4.00
1/12 Dozen No.	123 Baseman's Mitt	2.50	2.50
1/12 Dozen No.	125—Bats	1.25	1.25
1/12 Dozen No.	100—Bats	1.00	1.00
1/12 Dozen No.	37—Bats	.75	.75
1/6 Dozen No.	16—Bats	.35	.70
	TOTAL		$78.34

No. 4—Baseball Assortment ..... Per Assortment [illegible]

Weight per Assortment, about 55 Lbs.

FIELDERS' GLOVES

GOLDSMITH'S

All Gloves and Mitts are made in Right and Left Hand Models. Left Hand Models for those who Throw with the Right Hand will always be sent unless Rights are Specified.

Each

No. 57—High Grade Chrome Tanned Grain Leather; Leather Lined Palm and Welted Seams, Well Padded for instant use. A Large and Serviceable Model..... $3.50
Weight Each about 12 Ounces

No. 43—High Grade Chrome Tanned Grain Leather; Leather Lined Palm and Welted Seams. Well Padded for instant use. A Large and Serviceable Model..... 3.00
Weight Each about 12 Ounces

Each

No. 29—Full Size, Smoked Indian Buck Grain Leather; Palm Lined with Good Grade Leather; Well Padded with Flexible Felt $2 25
Weight Each about 10 Ounces

No. 27—Large Size Glove of Good Quality, Buff Dressed Sheepskin; Palm Lined with Velvet. Best Felt Padding. A Serviceable Glove..... 1.85
Weight Each about 10 Ounces

Each

No. 37—Full and Roomy. Made of Best Quality Black Glove Leather. The Palm is Full Leather Lined. White Welted Seams. Correctly Padded with Felt to make a Natural Pocket. A Glove that has the right "feel." $2.75
Weight Each about 11 Ounces

Each

No. 17—A Large Size Glove of Black Cordovan; Soft, Flexible Felt Padding arranged to make a ready broke pocket..... $1 35
Weight Each about 10 Ounces

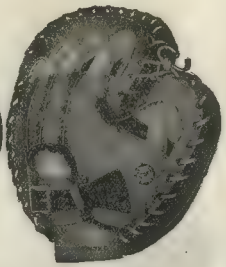
No. 14—A Glove for the Small Boy. Leather Palm, with Canvas Back. Felt Padded 1.00
Weight Each about 10 Ounces

CATCHERS' MITTS

GOLDSMITH'S

PROFESSIONAL MODEL
Designed and Used by Chief Meyers, former famous New York Catcher and many other Catchers in professional Base Ball

Supplied to the
U. S. Government, Y. M. C. A.
K. of C.



View, Showing Goldsmith Patent Finger Grips, Patent Wrist Protector

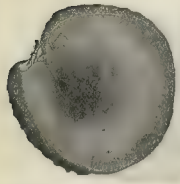
Each

Model CM—Moulded Scoop Shape, Palm of Best Grade Cowhide, Back and Fingers of Selected Mitten Leather; High Grade Felt Pad insuring both lightness and service. Made with the Patented Goldsmith "Hold-Fast" Finger Grips and Patented Wrist Protector. Full Laced Edge, with Rawhide Lacing for Adjusting Padding. Deep, Roomy Pocket. An Exceptionally well constructed mitt . . . $18 00

Weight Each about 2¼ Lbs.

Model WC—Palm made of Choice Tanned Cowhide; Back and Fingers of Best Quality Grain Leather; Thin Edge Scoop Model; Fits the Hand Snugly and is Light in weight. Asbestos Felt Pad; Full Laced Edge; Goldsmith Patented Wrist Protector prevents chafing and keeps the glove from turning 10.00

Weight Each about 2¼ Lbs.



Each

No. 234—A Large, Well Made Mitt, Perfectly Shaped and of Excellent Wearing Qualities. Choice Heavy Black Mitter Stock, with Special Finger Construction, giving a Big Hold Grip. Full Laced Edge, Best Asbestos Layer Felt Pad, Deep, Roomy, Strap-Adjusting, Ready-Broke Pocket . . $8.50

Weight Each about 2½ Lbs.

No. 226—A Mitt for Hard Service. The Palm is Selected Horsehide, Back and Fingers Firm, Strong Sheepskin; Double Stitched; Laced Edge with Waxed Lace for Adjusting Padding; Patented Wrist Protector. A great favorite . . . $7 00

Weight Each about 2½ Lbs.

Each

No. 209—An Attractive, Well-Built Mitt of Best Grade Black Sheepskin; Well Padded to Form a Natural Pocket. Full Laced Edge, with Waxed Lace; Goldsmith Patented Wrist Protector . . . $4 00

Weight Each about 1¾ Lbs.

No. 205—Palm and Fingers made of Good Tan Leather with Best Grade Leatherette Back; Double Stitched; Well Padded, with Full Laced Edge Goldsmith's Patented Wrist Protector . . 3 50

Weight Each about 1¾ Lbs.

BASE BALL BATS

BOTTLE NECK
A Most Attractive Model for Amateur Use

Per Dozen

No. 37—Straight Grained White Ash, Orange Stained, with Flame-Burned Finish, Non-Slip Taped Grip Handle. Assorted Lengths, Weights and Models $8 50
Average Weight about 37 Ounces Each

BOYS' LEAGUE

Per Dozen

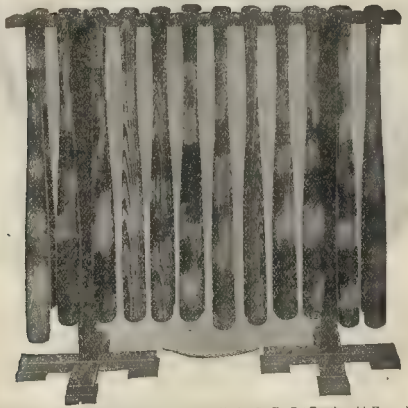
No. 27—Made of Splendid Straight Grained Ash, Light Flame-Burned and Hand Polished; Non-Slip Taped Grip Handle. Length 32 inches. $6.00
Average Weight about 37 Ounces Each

YOUTHS' BAT

Per Dozen

No. 18—A Good Boys' Bat; Good Quality Wood, Flame-Burned Finish Polished; Assorted Lengths $3 60
Average Weight about 35 Ounces Each

BASE BALL BAT DISPLAY RACKS



For Displaying Base Ball Bats in Stores; Made of Hardwood; Very Rigid when Set Up; Put Together with Hanger Bolts and Wing Nuts

Each

No. 42—Capacity, 24 Bats; Weathered Oak; Height 39 in.; Length 39 in. $4.00
Shipped Knocked Down, One in a Crate; Shipping Weight 15 Lbs.

2636

Kelley-How-Thomson Co. of Duluth

BASE BALL UNIFORMS

Our Uniforms are made for us by a Firm who Supplies Many Clubs in Professional Base Ball.
Color Card of Flannels Sent on Request

Philadelphia Style

(IN STOCK FOR IMMEDIATE DELIVERY)

Each Uniform will Consist of CAP, SHIRT, PANTS, LEATHER BELT and HOSE—Attractively Trimmed

SHIRT, Sizes	36	40		42
PANTS, Sizes	34	36		38
CAPS, Sizes	6¾ 7	7⅛	7¼	7⅜

Style SK

	Each
No. 1350—Complete Uniform	$18 00
No. 875—Complete Uniform	11 50

NOTE: Uniforms are Lettered with Initial or Full Name of Club Not Exceeding Ten (10) Letters—Extra Letters, 10c. Each.

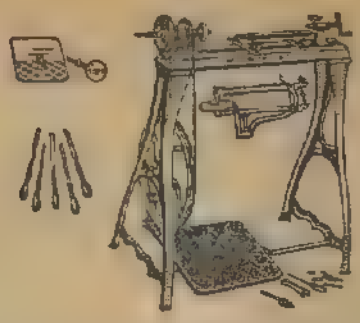
BASE BALL UNIFORMS
MADE TO MEASURE

SHIPPED DIRECT FROM FACTORY
ALLOW TWO WEEKS' TIME

SPECIAL UNIFORM CATALOG
AND PRICES SENT ON REQUEST

LATHE AND SAW ATTACHMENT

GOODELL



Manufactured by Millers Falls Co.

For use of schools, amateurs, etc. Suitable for hardwood and soft metals. Patterned almost exactly after the latest improved lathes. Has two speeds. Lathe head has 2-inch face plate, spur center, screw center for turning cups and a drill chuck holding ⅛ to ¼-inch straight shank twist drills for wood or iron. Has long and short tool rest, five turning tools, wrench, drill points, etc.

The Circular Saw Attachment consists of a table 6x7 inches, a saw three inches in diameter and a saw arbor.

The Scroll Saw Attachment is secured to lathe by a bolt.

Length of bed, 24 inches. Distance between centers, 13½ inches. Swing of lathe, 5 inches. Emery wheel, 4½x⅞ inches. Height, 27½ inches. Floor space, 25x15 inches.

No. 10—Lathe and tools only. Weight, 71 lbs.
Each $28.00

No. 11—Lathe with scroll saw attachment. Weight each, 73 lbs.
Each $35.00

No. 12—Lathe with circular saw attachment. Weight each, 78 lbs.
Each $30.00

No. 13—Lathe with both circular and scroll saw attachment. Weight each, 82 lbs.
Each $36 00

Above are shipping weights.

Lathe and tools, scroll and circular saws packed in separate cases

SCROLL SAWS

Manufactured by Millers Falls Co.

Iron frame work, painted and japanned black. Ornamented with gilt and red stripes. Arbors, etc., of best steel. Selected ash arms and pitman. All parts interchangeable.

[illegible]

With blower and drilling attachment. Eight-inch tilting table. Complete with 12 saw blades, wrench, sheet of designs and 3 drill points.

No. 2—Depth of arms, inch.. 18
Height over all, inch.. . . . . 3(
Shipping weight, lbs.... 45
Each $16 00

BRACKET OR SCROLL SAW BLADES

Tempered spring steel. Natural finish.

Nos.	00 to 6	7	8
Length, inch	5	5	5
Average weight, ozs.	1½	1½	1¾
Per gross	$1.80	2 00	2 30

One gross in a package.

COPING SAWS

F. P. M.

Manufactured by F. P. Maxon.

Adjustable nickel plated steel frame. Polished hardwood handle. Blade can be set at any angle or corner by turning device at the handle.

No.	F.P.M.
Length of blade, inch	6½
Depth of cut, inch	4
Length of handle, inch	4½
Weight per dozen, lbs.	5¾
Per dozen	$10 50
Extra blades	.Per dozen .60

Saws, one-third dozen; blades, one gross in cardboard box.

GRIFFINS

Polished steel wire frame, with ends notched to hold blade faced up or down, or to either side, as desired. With one dozen steel blades.

No.	100
Length of blades, inch	6
Depth of cut, inch	4
Length of handle, inch	4
Weight per dozen, lbs.	5
Per dozen	$4 00
Extra blades	...Per gross 2.25

Saws, one-half dozen; blades, one gross in a cardboard box.

BRACKET SAWS

MILLERS FALLS

These sets are packed one in paper boxes. Contents: Spring steel saw frame, polished and nickel plated, [illegible] inches, patented clamps for holding blades, 3 sheets of designs, 12 saw blades, 1 awl, 1 sheet of impression paper.

No. 2
Weight per dozen, lbs. 14
Per dozen $20 00

Frame rough nickeled, with japanned handle. Box same size and same contents as No. 2.

No. 1
Weight per dozen, lbs. 11½
Per dozen $15.00

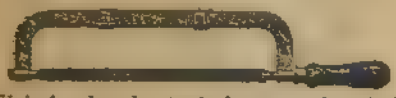
One set in a box.

HACK SAW FRAMES

EXTENSION

Adjustable for 8, 9, 10 and 12-inch blades. Nickel plated steel frame. Perfect hardwood handle.

No.	S 1
Length over all, extended, inch	20
Weight per dozen, lbs.	24
Per dozen	$24 00



Nickel plated steel frame. Cocobolo handle. Adapted to face blades up or down or to either side. Adjustable for 8, 9, 10, or 12-inch blades, with lock screw.

No.	10
Length over all, extended, inch	20¼
Weight per dozen, lbs.	17
Per dozen	$30 00

Above, one-twelfth dozen in a box.

UNION

Solid steel frame. Blade is tightened by turning wing thumb nut. Black enameled hardwood handle.

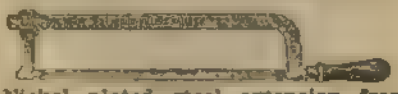
No. 30—		
For Blades, inch	8	9
Length over all, inch	14	15
Weight per dozen, lbs	11	12
Per dozen	$5 50	6 00

MILFORD MASTER GRIP EXTENSION

Heavily nickel plated steel extension frame with finely finished rubberoid handle. Frame is strong and rigid. Can be adjusted to cut at four different angles. Complete with one 8-inch hack saw blade. Adjustable for 8, 9, 10, 11, or 12-inch blade

No.	M4
Length over all, extended, inch	18
Depth of frame, inch	2¾
Weight dozen, lbs.	23
Per dozen	$45.00

One-sixth dozen in a cardboard box.

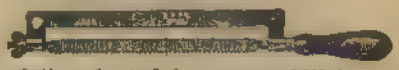


Nickel plated steel extension frame. Ebonized hardwood handle. Blades can be adjusted to any angle. Adjustable for 8, 9, 10 and 12-inch blades.

No.	8
Length over all, extended, inch	20½
Weight per dozen, lbs.	18
Per dozen	$30 00

One-twelfth dozen in cardboard box

DISSTONS



Especially adapted for automobilists use.

Solid steel frame, black handle. Made for 8-inch blades only.

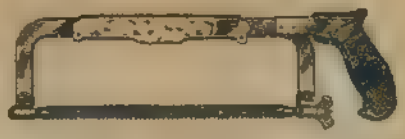
Strong and well made. The low back design of this frame permits use in extremely close quarters and affords better control of the saw.

One inch from tooth edge to inside of back.

No.	200
Length of blade, inch	8
Length over all, inch	15¾
Weight per dozen, lbs.	9
Per dozen	$10.00

One-sixth dozen in a cardboard box.

PISTOL GRIP EXTENSION

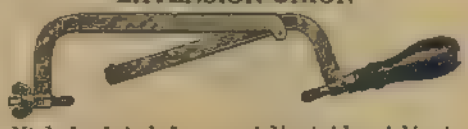


Steel frame, nickel plated reinforced by metal shield. Black composition handle; depth under back, 3¼ inches.

For 8 and 12-inch blades. Frame with one 10-inch blade.

No.	27
Weight per dozen, lbs.	18
Per dozen	$31 00

EXTENSION UNION



Nickel plated frame. Adjustable. Adjustable for blades 8, 9, 10, 11 or 12-inch.

No.	50
Length over all, inch	14
Weight per dozen, lbs.	10
Per dozen	$8.00

One-half dozen in a cardboard box.

RAIL

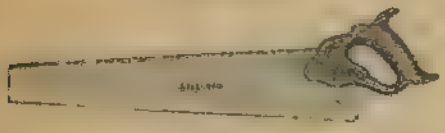
MILLERS FALLS

Heavy forged japanned steel frame, solid sockets. Not adjustable. Beechwood handle, fastened by three nickel plated screws. Blades tightened by thumb screw.

No.	24
Length of blade, inch	12
Length over all, inch	21½
Height, inch	10
Weight per dozen, lbs.	47
Per dozen	$40.00

One-twelfth dozen in a cardboard box.

METAL CUTTING SAWS

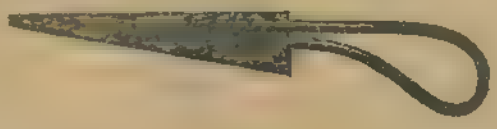


Crucible spring steel blade, polished. Extra fine, hand tempered teeth, filed but not set. Applewood handle. Screw and wing nut for tightening.

No. 99—Length of cut, inch	18	20
Teeth to the inch	15	15
Weight per dozen, lbs.	12	12½
Per dozen	$27 00	34.00

One-half dozen in cardboard box

KIT HAXAW



A double-edged rigid hack saw. Blade made of tungsten steel. Handle made of tool steel. Packed with two extra blades in heavy paper container.

No.	K 10
Weight per dozen, lbs.	3
Per dozen	$18.00

TWINE HOLDERS

Cast Iron. Size, 6 x 4 Ins. Can Be Fastened to Hang.

	Per Dozen
No. 5—Japanned	$7.20
No. 7—Copper Bronzed	$7.20

Half dozen in a box

Black Japanned Cast Iron. Size, 4 x 4½ Ins. Inside

	Per Dozen
No. 131	$17.40

Size, 5 x 5½ Ins

	Per Dozen
No. 151	$30.75

Half dozen in a package

No. 30

Copper Bronzed Cast Iron, Gold Bronzed, Decorated. Size, 4 x 3½ Ins. Diameter of Base, 5 Ins.

	Per Dozen
No. 30	$1.00

One in a package.

	Per Dozen
No. 1 Japanned	$10.80

Half dozen in a package

EXTRA TWINE

2½ Lb. Cones

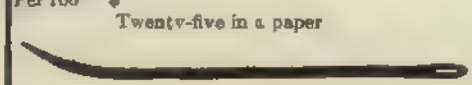
	Per Pound
No. 2½W White	$1.45
No. 2½RB Red and Blue	1.30

One dozen in a package

Harness. Diamond Drilled Eye

Nos.	2/0	1/0	1	2	3	4	5
Per 100	$						

Twenty-five in a paper



Packing

TOBACCO CUTTERS

Japanned Iron. Length, 10¾ Ins. Width, 3 Ins. Height, 7¼ Ins. Prong and Steel Knife Types Plug 4½ Ins. Wide

	Per Dozen
No. 2	$30.00

Wt., Per Doz., 57 Lbs.

ENTERPRISE

Blades are of Tempered Steel, Set in Cutting Have a Draw Cut Movement. Cuts Plug 4½ Ins. Wide

	Each	
No. 6	$2.00	$3.65

One dozen in a crate

GOOD CHEER

It is Elegantly Finished with Rich, Nickel-plated Mountings

	Each	
No. 4—Cuts Plug 4½ Ins. Wide	$3.75	$5.50

ENTERPRISE

Tempered Steel Blades. In Cutting Have a Draw Cut Movement

	Each	
No. 1—Cuts Plug 4½ Ins. Wide	$2.50	$3.00
No. 2E Root Cutter. 4½ Ins. Cutter	3.50	5.00

One dozen in a case

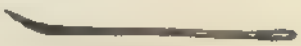
NEEDLES

Prices on Request

Sail

Nos.	4	5
Length, Ins.	2½	2¾
Per 1000	$	

100 in a box



Speying Bent

Length, Ins.	2¼	2½
Per Dozen	$	

One gross in a box

PACKING

John James Best English

Length, Ins.	3	3½	4	4½	5	5½	6	7	8
Per Dozen	$								

One gross in a package.

ROLLER BEARING COASTER WAGONS

BUFFALO AUTO-WHEEL

Prices on Request

REMOVABLE BODY, ROLLER-BEARING, SPEEDY, STURDY AND DURABLE

WHEEL is of the Standard Automobile Type. The **HUB** and **BUSHING** are of Cold Rolled Pressed Steel. The **SPOKES** are of Well-seasoned, Second-growth White Ash, Ovaled, Mitered and Machine Riveted in Hub with Bushing Turned Over the Ends. The **FELLOE** is ¾ x ¾ Inch with Tire of ⅝ x ⅝ Inch Flat Steel, Electrically Welded, and Shrunk on Felloe by Hydraulic Pressure. It Can Never Shrink Loose or Come off and It Also Insures a Perfectly True Wheel. The **BEARINGS** are Hard-drawn Bessemer Steel Rollers Running on Cold Drawn Absolutely True Steel Axles. Specially Designed **CAP** Protects Hub and Bearings from Dust and Grit, and a Special Washer Prevents Sliding Out and Consequent Wear on the Roller Bearings. **COTTER PINS** are Used Instead of Nuts Because They are Equally Efficient and can be More Easily Replaced if Lost. **FINISH** is Two Coats of Bright Vermilion Striped in Black, and Varnished. **KING BOLT** is ⅝ Inch. **IRON PARTS** are All Japanned and Baked. **BOLSTERS** are of Well-seasoned Hard Maple, Handsomely Shaped and Ironed. **BED** is Made of Well-seasoned Second-growth White Ash Finished with Natural Grain Filled and Varnished with the Special Wear-resisting Compound which has Made These Goods Famous as the Most Durably-finished in the Market. Box is Mortised, Glued and Nailed to Insure Strong, Durable Construction as Shown in Illustration and Ornamentation in Bright Vermilion Gives an Unusually Attractive Body. The Whole Body is Thoroughly Braced and can be **EASILY REMOVED.**

		Per Dozen
No. 1—14 x 32 Inches—8-inch Wheels.	Weight, Each, About 25 Pounds	$
No. 2—14 x 34 Inches—10-inch Wheels.	Weight, Each, About 30 Pounds.	
No. 3—16 x 38 Inches—10-inch Wheels.	Weight, Each, About 35 Pounds	
No. 4—18 x 40 Inches—12-inch Wheels.	Weight, Each, About 40 Pounds	

No. 1 Two in a Crate; Others One in a Crate

GOPHER TRAPS

MACABEE

Green enameled steel spring wire. Two prongs. Tinned steel lever. Has large catching surface.

No.	4
Length over all, inch	6
Weight per dozen, lbs.	2½
Per dozen	$3.50

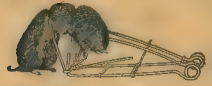
Two dozen in box.

WARDS PATTERN

Coppered steel spring brass jaws. Wrought iron bar.

No.	100
Length over all, inch	6½
Spread at point, inch	1⅝
Weight per dozen, lbs.	3
Per dozen	$3.50

IMPROVED C. V.

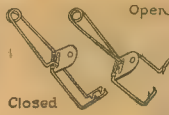


Bright steel spring wire, 4 sharp pointed prongs. Double rings reinforced at top and bottom. Tinned steel lever.

No.	1
Length over all, inch	6
Height of ring, inch	3
Weight per dozen, lbs	3¼
Per dozen	$5.00

Above, one dozen in box.

ROY



Heavy spring wire. Japanned black. Sets automatically by pressing the wires together behind the trigger, therefore it is not necessary to touch the jaws or the dead animal.

No.	Roy
Length over all, inch	8¼
Net weight per dozen, lbs.	2
Per dozen	$3.00

One dozen in a carton. Three gross in a case.

NEWHOUSE

Natural finish spring steel. 3 prongs. Steel wire ring and trigger. Flat steel lever.

No.	5
Length over all, inch	6
Height of ring, inch	3
Weight per dozen, lbs	3
Per dozen	$3.00

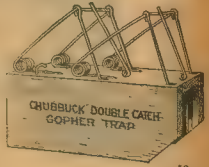
One dozen in box.

BOX

Wood frame, painted red. Coppered wire spring. Galvanized wire catch. Flat galvanized trigger. Has ¼-inch hole in closed end.

No.	44
Size frame, inch	6½x3¾x3
Weight per dozen, lbs.	8½
Per dozen	$4.00

CHUBBUCK DOUBLE SPRING



Wood box, painted green two coppered wire springs.

No.	50
Size, inch	6¾x3¾x3
Weight per dozen, lbs.	7
Per dozen	$9.00

One-half dozen in a case.

MOLE TRAPS

Malleable iron, japanned. No. 4 gauge steel wire spring and trigger. Steel lever. Five teeth in each jaw.

No.	11
Width, inch	5¼
Height, inch	3
Weight per dozen, lbs.	18
Per dozen	$18.00

One-twelfth dozen in box.

REDDICKS

Tinned steel frame, japanned steel coil spring. Six steel prongs 5 inches long. Tinned steel lever.

No.	13
Length over all, inch	24
Width, inch	4
Weight per dozen, lbs	30
Per dozen	$15.00

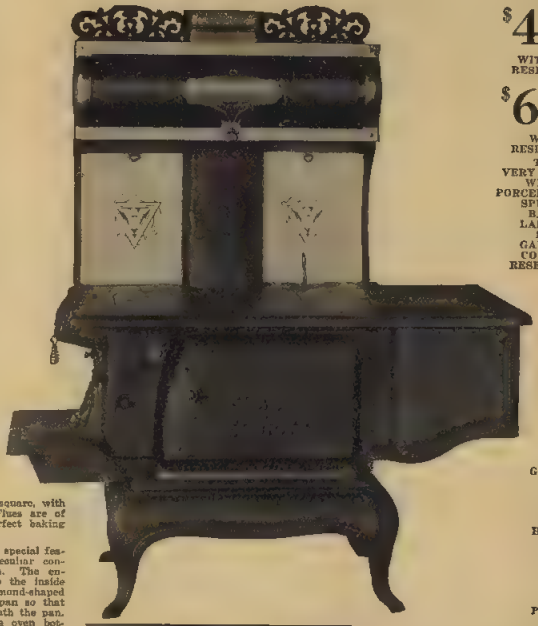
One-half dozen in crate.

GRAND SECURITY CAST RANGE

BEAUTIFUL
NICKELED
HIGH CLOSET

EIGHT-INCH HOLES
LARGE
POUCH FEED
DOOR
DUPLEX
REVERSIBLE
GRATES
LARGE
OVEN
18 X 19 X 11½ INCHES
LARGE RESERVOIR
LARGE
ASH PAN
LARGE
WARMING CLOSET

EASY TO CLEAN
EASY TO OPERATE



$49.95
WITHOUT RESERVOIR

$61.50
WITH RESERVOIR

THE VERY LATEST WHITE PORCELAINIZED SPLASH BACK
LARGE 10 GALLON COPPER RESERVOIR

BURNS
HARD OR SOFT
COAL
COKE OR WOOD
UP-TO-DATE
ECONOMICAL
SANITARY

GUARANTEED
TO BE
STRICTLY
HIGH CLASS
AND TO
BAKE
TO
PERFECTION

OVEN. Extra large nearly square, with even rack 17½x18 inches. Flues are of large capacity, making a perfect baking oven.

OVEN BOTTOM. One of the special features of this stove is the peculiar construction of the oven bottom. The entire upper surface exposed to the inside is covered with small, diamond-shaped points that raise the baking pan so that the heat circulates freely beneath the pan. These points also prevent the oven bottom from warping, or cracking, and increases the radiation into the oven.

TOP PLATES. The main top is cut into four sections, which many years' experience has demonstrated to be the most durable construction. The outer edges, or rim, are extra heavy and have reinforcing ribs that prevent breakage in shipment.

COVERS AND CENTERS. Equipped with two-piece SECURITY COVERS, with reinforced SECURITY CENTERS. Their construction has stood the test of many years' severe usage. We guarantee them not to crack or warp. The SECURITY ANTI-SCORCH HOT BLAST COVERS can be put on if desired.

POUCH FEED. The pouch feed door cuts very low in front so that coal can be put in easily. The lift-up style that forms a shield against the heat from top when putting in fuel and prevents the coal from falling on top of the stove.

FIRE BOX. The linings are made extra heavy and corrugated to increase their durability. The general shape of the fire box is oval which prevents warping. The grate bars are duplex, reversible for burning wood. The front end of the range contains a hot blast draft door, entirely independent of the regular draft door, through which air is admitted into a pocket, or passageway, formed by the inside wall of the front grate and front end of range. In this way, air is made to circulate back of the front grate and around back of both end linings. After becoming intensely heated, the air enters into the fire box through the holes in top of the linings, causing the gases and smoke to be consumed that are wasted in other ranges. This means a large saving of fuel. This circulation of air back of the linings prevents them from becoming overheated and makes them practically indestructible.

DOUBLE END SHELF. This is an entirely new improvement, original with us and very useful. A second shelf is placed just below the top end shelf. A very convenient place in which to put many articles used often about the kitchen stove. Also has a row of heavy cast hooks on extreme edge of top shelf.

RESERVOIR. Very large, ten-gallon, all-copper detachable reservoir.
ASH PAN. Large bailed ash pan of ample capacity, measures 12⅛x 12⅛x4 in. Size of Pipe Collar 7 inches.

All ranges are blackened, polished, securely crated and shipped direct to you from Factory in Northwestern Missouri.

EVERY RANGE IS SOLD WITH OUR BINDING GUARANTEE

Number	Size and No. of Lids	Size of Oven	Size of Top without Reservoir	Size of Top with Reservoir	Weight	Price
S-6014	Six—8-inch	18x19x11½ in	28x36 inches	28x48 inches	355 lbs.	$49.95
S-6015	Six—8-inch	18x19x11½ in.			405 lbs	$61.50

HOME SECURITY CAST RANGE

$69.95

WITHOUT RESERVOIR

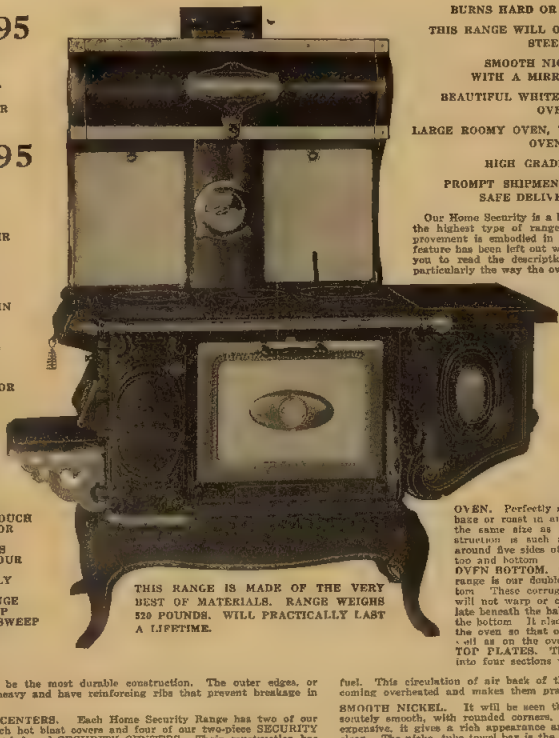
$79.95

WITH RESERVOIR

HAS WHITE PORCELAIN PANELS AND OVEN DOOR

IS EQUIPPED WITH DUPLEX GRATES

NOTICE THE LOW POUCH FEED DOOR IT ENABLES YOU TO POUR COAL IN EASILY AN EASY RANGE TO KEEP CLEAN AND SWEEP UNDER



THIS RANGE IS MADE OF THE VERY BEST OF MATERIALS. RANGE WEIGHS 520 POUNDS. WILL PRACTICALLY LAST A LIFETIME.

BURNS HARD OR SOFT COAL OR WOOD

THIS RANGE WILL OUTLAST THREE OR FOUR STEEL RANGES

SMOOTH NICKEL TRIMMINGS WITH A MIRROR LIKE SURFACE.

BEAUTIFUL WHITE PORCELAIN BACK AND OVEN DOOR.

LARGE ROOMY OVEN, WITH DOUBLE CORRUGATED OVEN BOTTOM.

HIGH GRADE THERMOMETER

PROMPT SHIPMENTS, SATISFACTION AND SAFE DELIVERY GUARANTEED.

Our Home Security is a beautiful and massive Cast Range, the highest type of range construction. Every latest improvement is embodied in the manufacture of same; not a feature has been left out which would improve it. We want you to read the description of this range carefully; note particularly the way the oven is constructed, the anti scorch hot blast covers; the very heavy weight front grate; the extra heavy fire back, which is guaranteed for five years; large ash pan; beam duplex grate; extra large reservoir; the beautiful white porcelain splash backs and oven door; spring balanced oven door; double corrugated oven bottom; in fact, compare it, part for part, with ranges selling from $75.00 to $95.00. This range has every feature of any value that they have and many others. Our low price is made possible by our Direct from Factory selling policy to Co-Operative Members. No one gets a profit on this stove but the manufacturer, and a small selling expense added for ourselves

OVEN. Perfectly square, high and roomy. One can bake or roast in any part of it, the oven rack being the same size as the oven bottom. The flue construction is such as to throw the heat uniformly around five sides of the oven, so that baking is even top and bottom

OVEN BOTTOM. One of the special features of this range is our double corrugated, or ribbed, oven bottom. These corrugations strengthen the plate so it will not warp or crack and allow the heat to circulate beneath the bake pan which prevents burning on the bottom. It also indicates an even heat throughout the oven so that one can bake on the oven rack as well as on the oven bottom.

TOP PLATES. The main top of the range is cut into four sections which many years' experience has demonstrated to be the most durable construction. The outer edges, or rim, are extra heavy and have reinforcing ribs that prevent breakage in shipment.

COVERS AND CENTERS. Each Home Security Range has two of our patent anti-scorch hot blast covers and four of our two-piece SECURITY COVERS, with reinforced SECURITY CENTERS. Their construction has stood the test of many years' severe usage. We guarantee them not to crack or warp.

POUCH FEED. The pouch feed door cuts very low in front so that coal can be poured in easily. The cover has a coking register and lifts up, which forms a shield against the heat and prevents coal from falling on top of the stove.

FIRE BOX. The linings are made extra heavy and corrugated to increase their durability. The general shape of the fire box is oval which prevents warping. The grate bars are duplex reversible for burning wood, and are so constructed that they are easily replaced without removing any other linings.

The front end of the range contains a hot blast draft door, entirely independent of the regular draft door, through which air is admitted into a pocket, or passage way, formed by the inside wall of the front grate and front end of range. In this way air is made to circulate back of the front grate and around back of both end linings. After becoming intensely heated in this way, the air enters into the fire box through holes in the top of the linings, causing the gases and smoke to be consumed that are wasted in other ranges. This means a large saving of fuel. This circulation of air back of the linings prevent them from becoming overheated and makes them practically indestructible.

SMOOTH NICKEL. It will be seen that all nickel plated parts are absolutely smooth, with rounded corners, and highly polished. While more expensive, it gives a rich appearance and is more easily kept bright and clean. The nickel tube towel bar is the patent detachable kind.

WHITE FINISH. The oven door lining and the closet panels on each side of the smoke pipe are made of white porcelainized steel. The closet panels are removable for cleaning. Guaranteed not to change color, or blister from the heat. A very decided improvement in range construction that will appeal to every housewife.

RESERVOIR. Very large cast-iron white enamel lined, with large japanned cover, the lift-up part being 11½x18 inches. The reservoir damper is so arranged that water can be heated while baking is being done

THERMOMETER. The oven door contains a high grade thermometer that accurately indicates the temperature of the oven. Saves opening the oven door which rapidly loses the heat from the oven. No housewife would be without this convenience after using a HOME SECURITY RANGE.

ASH PAN. The peculiar construction of the ash pan door enables us to furnish a very commodious ash pan, it being 7 inches wide, 7 inches deep and 15 inches long. Size of Pipe Collar 7 inches.

All ranges are blackened, polished, securely crated and shipped direct to you from Factory in Northwestern Missouri.

Number	Size and No. of Lids	Size of Oven	Size of Top without Reservoir	Size of Top with Reservoir	Weight	Price
S-6012	Six—8-inch	18x18x12½ in.	27½x41 inches	27½x46 inches	410 lbs.	$69.95
S-6013	Six—8-inch	18x18x12½ in.			520 lbs.	$79.95
	Extra for Water Front					$4.75

EXTRA FINISHED STOVE WARE

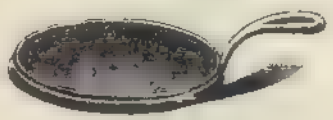
SPIDERS

Nickel Plated

Nos.	6	7	8	9	10
Each	$1 72	1 84	2 00	2 48	2 96
	$2.75	2.95	3.20	4.00	4.75

Polished

Nos.	6	7	8	9	10
Each	$ 90	92	1 00	1 24	1 48
	$1.40	1.50	1.60	2.00	2.40



POLISHED HANDLED GRIDDLES

Nos.	7	8	9
Ins.	8½	9½	10½
Each	$ 80	88	1 04
	$1.30	1.45	1.70

UNPOLISHED LONG GRIDDLES

Nos.	7	8	9
Size	7½x16½	8½x19	9½x2-
Each	$1 40	1 70	2 20
	$2.25	2.75	3.55

POLISHED BAILED GRIDDLES

Nos.	12	14	16
Size.	11½	13½	15½
Each	$1 50	1.90	2.30
	$2.40	3.05	3.70

Loose.

All Above Furnished from Stock. F. O. B. Philadelphia

FRY PANS AND GRIDDLES

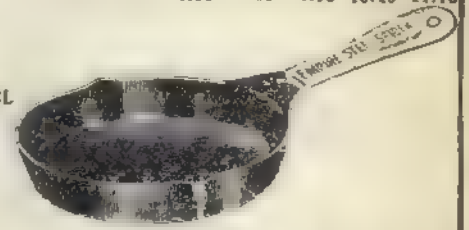
ACME FRY PANS

Cold Handle. Cold Rolled Steel, Polished, Tin Covered.

Nos.	00	0
Diam. Top Ins.	6	8
Per Doz	$2 50	3 00
	$2.00	4.40

Nos.	1	2	3	4	5	6	7
Diam. at Top, Ins.	8½	9	9½	10	11	12	13
Per Doz.	$3 75	4 25	4 75	5 25	6 00	7 00	8 00
	5.20	5.00	6.30	7.40	8.00	10.40	11.70

EMPIRE STEEL SPIDERS



Nos.	7	8	9	10	11
Inches	8	9	10	11	12
Each	$ 85	75	90	1 10	1 30
	$1.15	1.30	1.60	1.90	2.20

BROOKLYN COLD HANDLE SKILLETS

Nos.	7	8	9
Diameter at Bottom, Ins.	8	9	10
Per Dozen	$2 90	3 50	4 00
	$2.00	2.50	3.00

EMPIRE COLD HANDLE GRIDDLES

Nos.	8	9	10
Cooking Surface, Ins.	8½	9½	10½
Each	$ 60	70	80
	$1.10	1.25	1.40

BAILED GRIDDLES

Nos.	12	14	16
Cooking Surface, Ins	12	13	14
Each	$1 00	1 15	1 30
	$2.00	2.40	2.80

Quarter dozen in a bundle.

STEEL HANDY FRYERS

For Frying Potatoes, Oysters, Croquettes, etc.

With Movable Support and Wire Draining Basket

Nos.	Diam. Ins.	Deep Ins.	Each	
108	9	2½	$2 10	$2.95
110	10	2¾	2 40	3.40
112	12	3	2 70	3.80
114	14	3½	3 30	4.65
190	9	5	2 70	3.80
1100	10	5	3 20	4.50
1120	12	5½	4 20	5.90

Loose

Nos.	Diam Ins	Deep Ins	Each	
09	9	2½	$1 00	$1.40
010	10	2¾	1 10	1.55
012	12	3	1.30	1.85
090	9	3½	1 30	1.85
0100	10	4½	1 40	2.00
0120	12	4¾	1 70	2.40

Loose.

Hotel Size. With Mesh Wire Draining Basket

Nos.	Diam Ins	Deep Ins.	Each	
1120½	12	5½	$4 20	$5.90
1130	13	5½	5 30	7.45
1140	14	6	6 60	9.25
1160	17	6½	10 20	14.30
1180	20	8	13.50	18.90

Loose

NATIONAL FIRELESS COOKERS

Simple, Durable, Sanitary and Efficient No Superfluous Parts, Vessels or Tools. Cover Sets Well into Cooker and Seals Tightly, Holding Heat Thoroughly. Outside Japanned in Assorted Colors Light in Weight, Compact and Convenient in Form

Prices on Request

Furnished with Two Royal Granite Enameled Cooking Vessels and One Heating Stone.

15½ Ins. High. 11½ Ins. Diam. Contains Two 4-quart Vessels.

	Each	
No. 40	$	$

16½ Ins. High. 12½ Ins. Diam. Contains Two 6-quart Vessels.

	Each	
No. 60	$	$

18½ Ins. High. 14 Ins. Diam. Contains Two 8-quart Vessels.

	Each	
No. 80	$	$

The Three Vessel Equipment has One Large and Two Small Cooking Vessels

15½ Ins. High. 11½ Ins Diam. Contains One 4-quart, Two 2-quart vessels and One Heating Stone.

	Each	
No. 400	$	$

16½ Ins. High. 12½ Ins. Diam. Contains One 6-quart, Two 3-quart Vessels and One Heating Stone.

	Each	
No. 600	$	$

18½ Ins. High. 14 Ins. Diam. Contains One 8-quart, Two 4-quart Vessels and One Heating Stone.

	Each	
No. 800	$	$

One in a box.

One Full Size Vessel, One Half Size Vessel and One Pie Plate, One Baking Rack Two Soap Stone Heating Plates.

15½ Ins. High. 11½ Ins. Diam. Contains One 4-quart and One 2-quart Vessel Beside Other Equipment as Above

	Each	
No. 410	$	$

16½ Ins. High. 12½ Ins. Diam. Regular Equipment, Including One 6-quart and One 3-quart Cooking Vessel.

	Each	
No. 610	$	$

18½ Ins. High. 14½ Ins. Diam. Regular Equipment, Including One 8-quart and One 4-quart Cooking Vessel

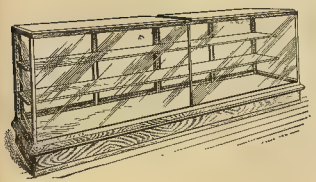
	Each	
No. 810	$	$

SHOW CASES

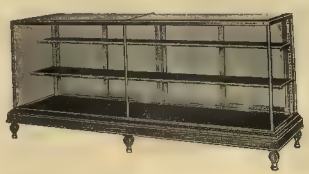
COUNTER

Occident—Combination Case, solid oak, highly polished, plush lined, mirrored door hung on brass spring hinges, double strength glass. Length, 36 in. Width, 25 in. Height, 14½ in. With spaces for thirty-six patterns of Pocket Knives, eight patterns of razors or scissors. Fitted with partitioned drawer to hold duplicate stock. Weight each, 100 lbs.
Each, $35.00
One in a case.

GOMOLL'S UP-TO-DATE FLOOR CASES



No. 1-RB—With Receding Base



No. 1-LB—With Leg Base

Made of best quarter-sawed oak. Two-light, heavy bevel-plate glass top. Front and ends are double-strength American glass. Two shelves, 10 and 14 in. wide, covered with best green felt, and nickel-plated adjustable brackets. Height of case, 42 in. Furnished regularly with clear glass door in back, with ball-bearing rollers running on steel track, but can be furnished with American mirror door in back when so ordered.

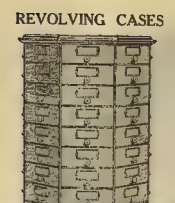
With Receding Base				
No. 1-RB—Length, ft.	4	5	6	8
Weight each, lbs.	160	200	240	320
Each	$60.00	70.00	84.00	104.00

With Leg Base				
No. 1-LB—Length, ft.	4	5	6	8
Weight each, lbs	160	200	240	320
Each	$60.00	70.00	84.00	104.00

For cases with mirror-back doors, add 60 cents net per foot to above prices.

STOCK CASES AND BOXES

REVOLVING CASES

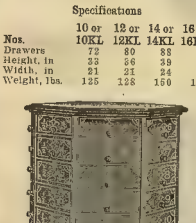


Poplar Wood, Cherry Stained

With Knobs Only	Each	With Knobs and Labels	Each
No. 10	$50.00	No. 10KL	$57 00
No. 12	50 50	No. 12KL	60 00
No. 14	62.00	No. 14KL	65 00
No. 16	66 50	No. 16KL	70 00

Specifications

Nos.	10 or 10KL	12 or 12KL	14 or 14KL	16 or 16KL
Drawers	72	80	88	96
Height, in	33	36	39	42
Width, in	21	21	24	24
Weight, lbs.	125	128	150	160



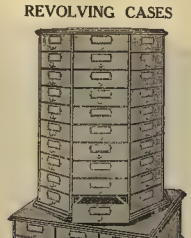
Poplar Wood, Cherry Stained For Screws

	Each		Each
No. 1	$50.00	No. 3	$62 00
No. 2	56.50	No. 4	66 50

Specifications

Nos.	1	2	3	4
Drawers	72	80	88	96
Height, in	33	36	39	42
Width, in	21	21	24	24
Weight, lbs.	125	128	150	160

REVOLVING CASES

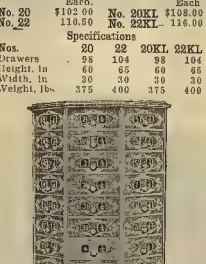


Poplar Wood, Cherry Stained With Knobs Only

	Each		Each
No. 20	$102 00	No. 20KL	$108.00
No. 22	110.50	No. 22KL	116.00

Specifications

Nos.	20	22	20KL	22KL
Drawers	88	104	88	104
Height, in	60	65	60	65
Width, in	30	30	30	30
Weight, lbs.	375	400	375	400



Poplar Wood, Cherry Stained For Bolts

	Each		Each
No. 5	$102 00	No. 6	$110.50

Specifications

Nos.	5	6
Drawers	88	104
Height, in	60	65
Width, in	30	30
Weight, lbs.	375	400

SHELF BOXES

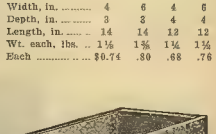
RIVERSIDE

Galvanized Steel

These boxes have oak fronts and pine backs. The sides and bottoms are pressed of one piece of rolled galvanized steel. Fronts are filled and varnished in golden oak, with bronze pull and card-holder

Nos.	100	101	103	125
Width, in	3	4	6	3
Depth, in	3	3	3	3
Length, in.	12	12	12	14
Wt. each, lbs.	1	1	1¼	1
Each	$0.60	.62	.68	72

Nos.	126	128	400	402
Width, in.	4	6	4	6
Depth, in.	3	3	4	4
Length, in.	14	14	12	12
Wt. each, lbs.	1½	1⅝	1¼	1½
Each	$0.74	.80	.68	.76



Nos.	404	425	427	429
Width, in	8	4	6	8
Depth, in	4	4	4	4
Length, in.	12	14	14	14
Wt. each, lbs.	1⅜	1⅜	1⅝	1⅞
Each	$0.88	.80	.92	1.08

Nos.	601	603	626	628
Width, in	6	8	6	8
Depth, in	6	6	6	6
Length, in.	12	12	14	14
Wt. each, lbs.	2¼	2½	2½	2¾
Each	$1.04	1.20	1.24	1.44

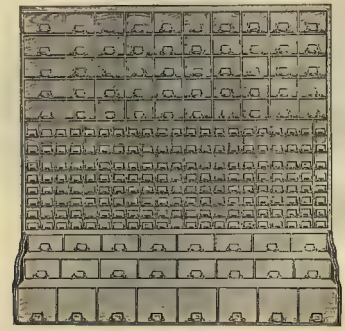
The above are only a few of the numerous sizes that can be furnished from factory. Send for catalogue.

SEATTLE HARDWARE COMPANY

RIVERSIDE CABINETS

Made of oak, well constructed and finely finished. The drawers are sheet steel bottom and sides, with oak front and basswood back.

No. 1—370 drawers, from 10 3/8x2 1/4x1 1/2 in to 19x5x2 1/2 in Height of cabinet, 63 in Length, 64 in. Depth at top, 12 in Depth at base, 20 in. Complete with set of printed labels. Shipping weight, 600 lbs.....Each, $160.00



Made of oak, well constructed and finely finished. Drawers are steel bottom and sides, with oak front and basswood back.

No. 2-B—242 drawers. Height, 62 in. Length, 64 in. Depth at top, 12 in. Depth at base, 20 in. Complete with set of labels. Shipping weight, about 500 lbs.....Each, $150.00

Entire Page Factory Shipment Only.

WRENCHES

HARRIS THIN STEEL

No. 50—With Roll..... Per Set, $2.71

Fitting U. S. Standard Nuts ¼ to ½ in. inclusive; U. S. Standard Cap Screw, ¼, ⅝, ⅜, ⅞, ½ and ⅝ in.; S. A. E. Nuts and Cap Screw Heads ¼ to ⅞ in. inclusive; A. L. A. M. Nuts and Cap Screw Heads ⅜ to ⅞ in. inclusive.

Nos.	11	21	32	33	34
Size opening, in.	⅞ x 1⅛	1⅛ x 1⅜	⅞ x 1⅛	1⅛ x 1⅜	1⅜ x 1⅝
Fits U. S. Std. nuts, in.	x ¼	¼ x ⅜	x ⅝	x ⅞	x 1⅛
Fits U. S. cap screw, in.	¼ x ⅜	⅞ x	⅝ x	⅞ x	1⅛ x ⅝
Fits S A. E. nuts and cap screw heads, in.	¼ x ⅜	⅞ x	⅝ x	⅞ x	1⅛ x ⅞
Fits A. L. A. M. nuts and cap screw heads, in.	x ⅞	⅞ x	⅝ x ⅞	.....	1⅛ x ⅞
Each	$0.34	.44	.56	.56	.56

HARRIS & REED FORD SET

No. 40—With Roll..... Per Set, $2.00

Set consists of the following wrenches:

Nos.	10	16	29	31A	38A
Size opening, in.	⅝ x ⅞	⅞ x 1⅛	⅝ x ¾	⅞ x ⅞	⅝ x ⅝
Fits U. S. Std. nuts, in.	⅜	.....	⅝ x ¾	⅞ x 1⅛	⅞ x ⅞
Fits U. S. Std cap screw heads, in.	⅞ x ¼	⅞ x ⅝	⅞ x ½	⅝	.....
Fits S. A. E. nuts and cap screw heads, in.	¼	⅞ x ⅝	⅞ x ½	⅞	.
Fits A. L. A. M. nuts and cap screw heads, in.	⅜	⅞ x ⅝	.	⅞ x ⅞	

HARRIS' THIN STEEL

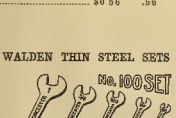
Made of tough high-grade steel, case-hardened; very thin and adapted to use on automobiles, etc.

Nos.	1H	10H	11H	20H
Size opening, in.	¼ x ⅜	⅝ x ⅞	⅞ x 1⅛	1⅛ x ⅞
Fits U. S. Std. nuts, in.	x ⅛	.....	x ¼	¼ x
Fits U. S. cap screws, in.	x ⅛	⅞ x ¼	¼ x ⅞	⅞ x ⅝
Fits S. A. E. nuts and cap screw heads, in.	.....	x ¼	¼ x ⅞	⅞ x ⅝
Fits A. L. A. M. nuts and cap screw heads, in.	⅛ x	x ⅞	⅞ x ⅝	
Each	$0.26	.34	.34	.44

Nos.	21H	30H	31H	32H
Size opening, in.	⅞ x 1	⅝ x ¾	1 x 1⅛	⅞ x 1
Fits U. S. Std. nuts, in.	¼ x ⅞	.....	⅝ x 1⅛	.. .
Fits U. S. cap screws, in.	⅞ x	⅞ x ⅛	...	⅝ x
Fits S. A. E. nuts and cap screw heads, in.	⅞ x	⅞ x ⅛	..	⅝ x
Fits A. L. A. M. nuts and cap screw heads, in.	⅞ x	x 1⅛	⅞ x	⅝ x
Each	$0.44	.56	.56	.56

Nos.	33H	34H	41H	60H
Size opening, in.	⅝ x 1	⅝ x ⅞	⅞ x 1	1⅛ x 1⅜
Fits U. S. Std. nuts, in.	x ⅞	x ⅛	¼ x	⅝ x ⅝
Fits U. S. cap screws, in.	⅛ x	⅛ x ⅝	⅝ x ⅝	x 1
Fits S. A. E. nuts and cap screw heads, in.	⅛ x	¼ x ⅞	⅞ x 1⅛	⅝ x ⅞
Fits A. L. A. M. nuts and cap screw heads, in.	⅛ x	⅞ x 1⅛	⅞ x 1⅛	x ⅞
Each	$0 56	.56	.68	.87

WALDEN THIN STEEL SETS



No. 100..... Per Set, $1.50

We can furnish Harris Thin Steel Wrenches from open stock. Note last column of comparative numbers, also complete description above.

Opening.	Fits U. S. Std Nuts.	Fits U S.Std. Cap Screws	Fits S.A.E. Nuts and Cap Screw.	Fits A.L.A.M. Nuts and Cap Screws.	Compares with Harris Numbers
⅜ x 1	⅛ x	⅝ x ⅜	⅞ x ⅛	⅞ x ⅛	41H
⅝ x ⅜	.....	⅞ x ⅛	⅞ x ⅛	x ⅜	30H
⅛ x ⅞	¼ x	⅞ x ⅜	⅞ x ⅜	⅞ x ⅜	20H
⅜ x ⅞	... .	¼ x	x ¼	¼ x	10H
¼ x ⅞	x ⅛	. . .	.....	.....	1H

SEATTLE HARDWARE COMPANY

WRENCHES

ENGINEERS'. DROP FORGED

Single Head, 15° Angle

No.	Unfinished Each	Semi-Finished Each	Finished Each	For U. S. Std. Nuts Size Bolts	Fits U. S. Std. Cap Screws	Fits S.A.E. Nuts and Cap Screws	Fits A.L.A.M. Nuts and Cap Screws	Openings Milled, Inch	Extreme Length, Inch.	Thickness, Head, Inch
00	$0.09	$0.14	$0.22	1/8	1/8	....	....	1/4	3	3/32
0	.10	.15	.25	5/32	....	....	....	5/32	3 1/2	1/8
1	.12	.18	.28	3/16	3/16	3/16	3/16	1/4	4	3/16
2	.15	.23	.32	7/32	....	....	....	3/8	4 3/4	3/16
3	.18	.26	.38	9/32	....	....	7/32	1/2	5 5/8	1/4
4	.22	.32	.45	5/16	....	....	....	9/16	6 1/2	1/4
5	.26	.38	.54	1/2	5/16	7/16	5/16	5/8	7 1/2	1/4
6	.31	.46	.65	5/8	....	....	....	3/4	8 3/8	5/16
7	.40	.57	.82	3/4	....	3/4	....	1 1/16	9 1/4	1/2
8	.55	.75	1.05	1	....	7/8	7/8	1 1/4	11 1/8	5/16
9	.85	1.15	1.52	7/8	....	....	....	1 1/2	13	3/8
10	1.20	1.60	2.10	1	....	....	....	1 5/8	14 3/4	3/8
11	1.65	2.10	2.80	1 1/8	....	....	....	1 3/4	16 1/2	7/16
12	2.20	2.85	3.70	1 1/4	....	....	....	2	18 1/2	7/16
13	2.80	3.65	4.70	1 3/8	....	....	....	2 1/8	20	1/2
14	3.45	4.60	5.80	1 1/2	....	....	....	2 3/8	22	1 1/16
15	4.15	5.60	7.10	1 5/8	....	....	....	2 5/8	24	1 1/16
16	4.90	6.70	8.50	1 3/4	....	....	....	2 3/4	25 1/2	1 1/16
16A	4.90	6.70	8.50	1 7/8	....	....	....	2 1/2	27	1 1/16
17	7.50	10.25	13.00	2	....	....	....	3 1/8	29 1/2	1 3/8
18	11.50	14.75	18.00	2 1/4	....	....	....	3 1/2	33	1 1/2
19	17.00	21.00	25.00	2 1/2	....	....	....	3 7/8	37	1 5/8
19A	17.00	21.00	25.00	2 3/4	....	....	....	4 1/4	39	1 5/8
20	25.00	31.00	37.00	3	....	....	....	4 5/8	41	1 5/8

Semi-Finished only carried in stock

Double Head, 15° Angle

No.	Unfinished Each	Semi-Finished Each	Finished Each	For U. S. Std. Nuts Size Bolts	Fits U. S. Std. Cap Screws	Fits S.A.E. Nuts and Cap Screws	Fits A.L.A.M. Nuts and Cap Screws	Opening Milled Inch	Extreme Length, Inch.	Thickness Head, Inch
†21	$0.12	$0.17	$0.26	1/4 x 5/16	1/4 x	....	....	5/16 x 1/2	3 1/2	1/8 x 1/8
†23	.14	.21	.32	5/16 x 1/4	x 5/16	x 7/16	x 5/16	1/2 x 9/16	4	1/8 x 1/4
†25	.17	.25	.38	1/4 x 5/16	5/16 x	5/16 x	5/16 x	9/16 x 5/8	4 3/4	1/8 x 5/16
†26	.21	.31	.46	5/16 x 3/8	5/16 x	5/16 x	5/16 x	5/8 x 11/16	5 5/8	1/4 x 5/16
†27	.21	.31	.46	1/4 x 3/8	....	....	x 5/16	9/16 x 11/16	5 1/2	5/16 x 5/16
†27C	.21	.31	.46	3/8 x 7/16	.... x	.	7/16 x	11/16 x 13/16	5 7/8	5/16 x 5/16
†28	.25	.37	.56	7/16 x 1/2	. x	. ....	.....	11/16 x 3/4	6 7/8	3/8 x 3/8
†29	.25	.37	.56	3/8 x 7/16	....	....	7/16 x 1/2	11/16 x 3/4	7 3/4	3/8 x 3/8
†30	.30	.45	.68	1/2 x 9/16	x 5/8	x 5/8	1/2 x 9/16	13/16 x 7/8	7 3/4	3/8 x 3/8
†31	.30	.45	.68	7/16 x 1/2	x 5/8	x 7/8	x 9/16	13/16 x 7/8	7 3/4	3/8 x 3/8
32	.37	.55	.85	1/2 x 5/8	....	.	....	15/16 x 1 1/16	8 3/4	1/2 x 1/2
33	.37	.55	.85	5/8 x 3/4	5/8 x	3/4 x	5/8 x	15/16 x 1 1/16	8 3/4	1/2 x 1/2
†33C	.37	.55	.85	....	5/8 x	5/8 x 3/4	x 1 1/16	1 1/16 x 1 1/4	8 3/4	1/2 x 1/2
34	.46	.68	1.08	3/4 x 5/8	3/4 x	7/8 x 1 1/16	3/4 x	1 1/16 x 1 1/4	9 3/4	5/8 x 5/8
35	.46	.68	1.08	5/8 x 3/4	 x	x 3/4	.....	1 1/16 x 1 1/4	9 3/4	5/8 x 5/8
†37	.66	.96	1.40	3/4 x 7/8	x1	3/4 x 7/8	x 7/8	1 1/4 x 1 1/4	11 1/2	3/4 x 3/4
38	1.00	1.40	1.90	7/8 x 1	1x	7/8 x	. ....	1 3/8 x 1 1/2	13 1/2	3/4 x 3/4
39	1.00	1.40	1.90	1 x 1 1/8	.	1 x	.....	1 1/2 x 1 5/8	13 1/2	3/4 x 3/4
40	1.40	1.90	2.60	1 1/8 x 1	1x	1 1/8 x	.....	1 5/8 x 1 3/4	15 1/2	1 x 1
41	1.40	1.90	2.60	1 1/8 x 1				1 3/4 x 1 7/8	15 1/2	3/4 x 3/4
43	1.90	2.65	3.50	1 x 1 1/8				1 7/8 x 2	17	3/4 x 3/4
44	2.60	3.60	4.70	1 x 1 1/4				1 15/16 x 2	19	3/4 x 3/4
45	2.60	3.60	4.70	1 1/4 x 1 1/4				1 13/16 x 2	19	1 x 1
47	3.80	5.25	6.70	1 1/4 x 1 3/8				2 x 2 1/16	21	1 1/16 x 1
48	5.20	7.00	8.80	1 1/4 x 1 1/2				2 x 2 1/8	23	1 1/16 x 1 1/16
49	5.20	7.00	8.80	1 3/8 x 1 1/2				2 1/16 x 2 3/16	23	1 x 1 1/16
53	9.00	12.00	15.00	1 5/8 x 1 3/4				2 1/16 x 2 3/16	27	1 1/16 x 1 1/16
55	12.00	15.50	19.00	1 3/4 x 2				2 3/4 x 3 1/16	32	1 1/16 x 1 3/16

Carried in Semi-Finished only except such numbers as designated with †. These numbers so designated are popular Automobile Wrenches and we carry them in the finished as well as semi-finished

UNFINISHED CAN BE FURNISHED FROM FACTORY

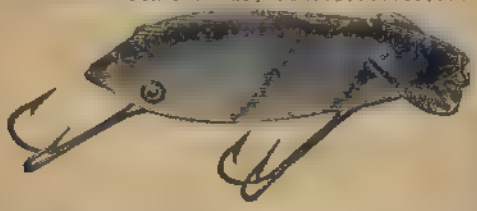
MINNOWS

HEDDON CRAB WIGGLERS

Floats when at rest. Dives and wiggles when retrieved. Two triple hooks.

No. 1800S—White body, red and green spots	Per dozen	$12 00
No. 1802—White body, red head	"	12 00
No. 1809D—Scale finish	"	12 00
No. 1809H—Scale finish, red	"	12.00

BABY CRAB WIGGLERS



A small type of crab wiggler. Has two double hooks, so placed as to be absolutely weedless. A great killer. Wgt. ¾ oz.

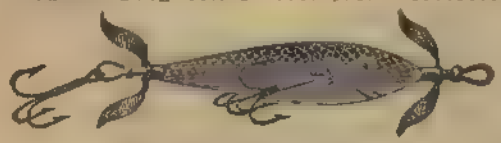
No. 1902—White body, red head	Per dozen	$12.00
No. 1905—Yellow body, green back, green and yellow spots	"	12 00
No. 1909C—Imitation crab	"	12.00
No. 1909D—Scale finish	"	12 00
No. 1909H—Scale finish, red belly	"	12.00

UNDERWATER

No. 150

The standard or non wiggling type of sinking wooden minnow. Superior finish non-cracking enamel. Fitted with two spinners and five strong treble hooks. Length of body, 3¾ inches. Weight, ⅝ oz.

No. 150—Fancy green back, white belly	Per dozen	$12 00
No. 151—Rainbow colored back, white belly	"	12 00
No. 159A—Yellow perch	"	12 00
No. 159B—Frog colors	"	12 00



No. 100

The standard sinking minnow fitted with two spinners and three strong treble hooks. Length, 3½-inch. Weight, ⅝ oz.

No. 100—Fancy green back, white belly	Per dozen	$11 40
No. 101—Rainbow colored back, white belly	"	11.40
No. 102—White with red stripes	"	11.40
No. 109A—Yellow perch	"	11.40
No. 109B—Imitation frog colors	"	11.40

TAD POLLY

Has a wonderful wiggling movement in the water. Floats when it rests. Dives and runs rather deep when retrieved.

PFLEUGERS NEVERFAIL

Cut shows two-thirds actual size.

Made of selected cedar and ballasted to ride "belly down." Heavily coated with indestructible waterproof enamels. Mounted with size 1 best quality bright nickel plated spear point treble ringed hooks.

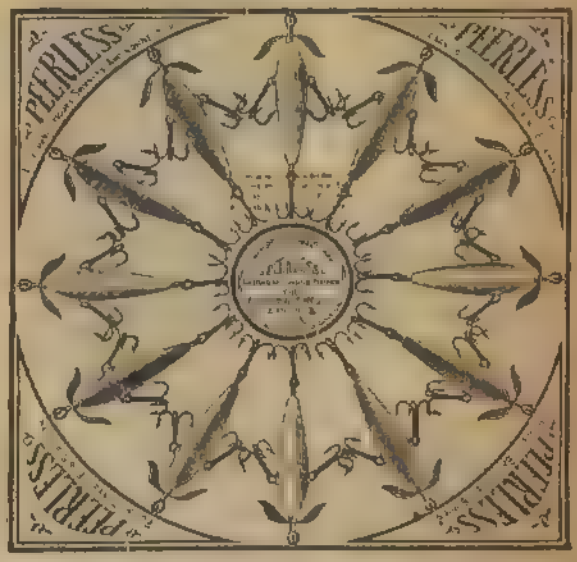
Length, 5⅝ inches. Mounted with 5 treble hooks.

No. 3169—White belly, green and red spotted back	Per doz	$9 00
No. 3173—White belly, rainbow back	"	9 00
No. 3185—White belly, green cracked back	"	9.00

Length, 3 inches. Mounted with 3 treble hooks.

No. 3169—White belly, green and red spotted back	Per doz	$8 00
No. 3173—White belly, rainbow back	"	8 00
No. 3185—White belly, green cracked back	"	8.00

PEERLESS



No. 2 000—Peerless Assortment, consists of twelve 2½-inch wood minnows with white belly, green and red back and all white enamel. Mounted one dozen on card. Weight per dozen, about 1 lb. Per dozen $6.00

Series 5000—Weight, ½ oz. Length, 3⅞-inch.		
No. 5000—Fancy green back	Per dozen	$13 20
No. 5000S—White spotted	"	13 20
No. 5002—White body, red head	"	13 20
No. 5005—Green back, orange spots	"	13 20
No. 5009D—Scale finish	"	13 20
No. 5009H—Scale finish, red belly	"	13.20
Series 6000—Weight, ¾ oz. Length, 4¼-inch.		
No. 6000—Fancy green back	Per dozen	$13 20
No. 6000S—White spotted	"	13 20
No. 6002—White body, red head	"	13 20
No. 6005—Green back, orange spots	"	13 20
No. 6009D—Scale finish	"	13 20
No. 6009H—Scale finish, red belly	"	13.20

Special "Points"

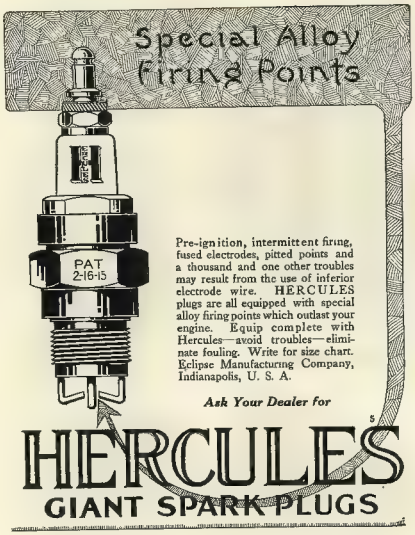
Not only the special alloy firing points make Hercules Giant plugs good—but considerable sales points.

Advertising that reaches practically every car owner in the country—every one instructing the reader:

"Ask Your Dealer for Hercules Plugs." Dealer Helps that form the point of contact between the national advertising and your customers.

It's your fault if these points don't point the way to increased sales. You can handle Hercules—you can use Hercules Dealer Helps. You can build a bigger spark plug business.

Write us today. Get the pointers on the Hercules Dealer's proposition.


Special Alloy
Firing Points
PAT
2-16-15
Pre-ignition, intermittent firing, fused electrodes, pitted points and a thousand and one other troubles may result from the use of inferior electrode wire. HERCULES plugs are all equipped with special alloy firing points which outlast your engine. Equip complete with Hercules—avoid troubles—eliminate fouling. Write for size chart. Eclipse Manufacturing Company, Indianapolis, U. S. A.
Ask Your Dealer for
HERCULES
GIANT SPARK PLUGS

One of the Hercules advertisements that are reaching practically every motorist through the leading national weekly and monthly magazines and farm papers.

ECLIPSE MFG. CO. **Indianapolis, U. S. A.** ***Makers of***

HERCULES
GIANT SPARK PLUGS

"Say, Jim,

since when do you sell oil?"

MR. K., a hardware merchant in a prosperous Illinois town, recently had delivered a shipment of Gargoyle Mobiloils.

It happened that when the oil was delivered Mr. K.'s friend, a building contractor, was in the store.

The following conversation ensued:

"Say, Jim, since when do you sell automobile oil?"

"Why, I've sold Gargoyle Mobiloils for the last five years."

"Well, it's a wonder you wouldn't tell folks about it. My trucks use about 6 barrels of Gargoyle Mobiloils a year. I don't see any reason why you shouldn't sell them to me."

This was an eye-opener to Mr. K. His experience showed him clearly what profits he had lost by selling oil in the old-fashioned way—from a barrel in a dark corner.

Mr. K. now keeps cans of Gargoyle Mobiloils in his window. The Gargoyle flange sign which he hung out has brought him many dollars of profits from passing automobile owners. He does a thriving business in automobile accessories.

Do you keep your Gargoyle Mobiloils out in plain sight, where you can cash in to the fullest on the profitable demand which Gargoyle Mobiloils enjoy?

Is our Chart of Recommendations in a conspicuous place in your store so that people know that you sell the correct oil for every make of passenger car, motor truck, motor-cycle and tractor?

Can you afford to wait until an experience like Mr. K.'s shows you the road to bigger profits.

GARGOYLE
Mobiloils

A grade for each type of motor

Ask our salesman for a Chart of Recommendations for your wall.

VACUUM OIL COMPANY, New York, U. S. A.

Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

Domestic Branches
New York, Boston, Philadelphia, Chicago, Pittsburgh, Detroit, Indianapolis, Minneapolis, Des Moines, Kansas City, Kan.

Chart of Recommendations for AUTOMOBILES

(Abbreviated Edition)

How to Read the Chart

THE Correct Grades of Gargoyle Mobiloils for engine lubrication are specified in the chart below

A means Gargoyle Mobiloil "A"
B means Gargoyle Mobiloil "B"
E means Gargoyle Mobiloil "E"
Arc means Gargoyle Mobiloil Arctic

These recommendations cover all models of both passenger and commercial vehicles unless otherwise specified.

Where different grades of Gargoyle Mobiloils are recommended for summer and winter use, the winter recommendation should be followed during the entire period when freezing temperatures may be experienced.

This Chart is compiled by the Vacuum Oil Company's Board of Automotive Engineers, and constitutes a scientific guide to correct Automobile Lubrication.

If your car is not listed in this partial chart, consult the Chart of Recommendations at your dealer's or send for booklet "Correct Lubrication" which lists the Correct Grades for all cars

NAMES OF AUTOMOBILES AND MOTOR TRUCKS	1920 Summer	1920 Winter	1919 Summer	1919 Winter	1918 Summer	1918 Winter	1917 Summer	1917 Winter	1916 Summer	1916 Winter
Allen	A	Arc	A	Arc	A	Arc	A	Arc	A	A
Ambassador	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Auburn (4 cylinder)	A	A	A	A	A	A	A	A	A	A
" (6 cylinder)	Arc	Arc	Arc	Arc	Arc	Arc	A	Arc	A	A
Autocar									Arc	Arc
" K 2½ Ton with E-Eng.					A	A				
Bay State	Arc	A	Arc	A	Arc	A	A	A	Arc	Arc
Buick	A	A	A	A	A	A	A	A	A	A
" (4 cylinder)									Arc	Arc
" (6 cylinder)									Arc	Arc
All Other Mod.	A	A	A	A	A	A	A	A	A	A
Chandler 6	Arc	Arc	Arc	Arc	Arc	Arc	A	A	A	A
Chevrolet (4 cylinder)	A	A	A	A	A	A	A	A		
" (6 cylinder)	A	A	A	A						
" F.C.B. & 1 Ton	A	Arc								
" 1½ Ton Mod.	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Cleveland	A	A	A	A	A	A	A	A	A	A
Cole (8 cylinder)	A	A	A	A	A	A	A	A	Arc	Arc
" Leverless	A	A	A	A	A	A	A	A	A	A
Cunningham	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Dodge Brothers	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Elcar	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Essex	A	Arc	A	Arc						
Federal (Model 3-D)					A	A	A	A		
" (Special)					A	A	A	A		
All Other Mod.	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Ford	A	A	A	A	A	A	A	A	A	A
Franklin	A	A	A	A	A	A	A	A	A	A
Gardner (4 cylinder)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" (6 cylinder)									Arc	Arc
All Other Mod.	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Hare-Motor Truck	A	A	A	A	A	A	A	A	A	A
Hudson	A	A	A	A	A	A	A	A	A	A
Hupmobile	A	A	A	A	A	A	A	A	A	A
Jordan	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
King (8 cylinder)	A	A	A	A	A	A	A	A	A	A
King-Bee (Model 48)									A	A
" (Model 57)									A	A
All Other Mod.	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Lexington	A	A	A	A	A	A	A	A	A	A
Liberty	A	A	A	A	A	A	A	A	A	A
Lozier Motor	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Maibohm	A	A	A	A	A	A	A	A	E	E
Marmon	A	A	A	A	A	A	A	A	A	A
Maxwell	A	A	A	A	A	A	A	A	A	A
Mercer	A	A	A	A	A	A	A	A	A	A
Mitchell (6 cylinder)	A	A	A	A	A	A	A	A	A	A
" (8 cylinder)	A	A	A	A	A	A	A	A	A	A
Moline-Knight	B	A	B	A	B	A	B	A	A	A
Moon	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Nash Quad	A	A	A	A						
" 6 cylinder					A	A				
" All Other Models					A	A	A	A	A	A
National (4 cylinder)	A	A	A	A	A	A	A	A	A	Arc
" (6 cylinder)									A	Arc
Nelson	A	A	A	A	A	A	A	A	A	A
Oak (8 cylinder)	A	A	A	A	A	A	A	A	A	A
" All Other Models	A	A	A	A	A	A	A	A	A	A
Oldsmobile (4 cylinder)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" (6 cylinder)									Arc	Arc
" (8 cylinder)	A	Arc	A	Arc	A	Arc	A	Arc	Arc	Arc
Overland	A	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Paige	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Paige (6 cylinder)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" (8 cylinder)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" All Other Mod.	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Peerless	A	A	A	A	A	A	A	A	A	A
" (8 cylinder)									A	A
Pierce-Arrow (4 cyl.)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
" (6 cyl.)	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
All Other Mod.	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Pilot	A	A	A	A	A	A	A	A	A	A
Premier	A	A	A	A	A	A	A	A	A	A
Reo	A	A	A	A	A	A	A	A	A	A
Republic	A	A	A	A	A	A	A	A	A	A
Revere	A	A	A	A	A	A	A	A	A	A
Roamer	A	A	A	A	A	A	A	A	A	A
Rolls-Royce	E	E	E	E	E	E	E	E	E	E
Saxon	A	A	A	A	A	A	A	A	A	A
Scripps-Booth (4 cyl.)	A	A	A	A	A	A	A	A	A	A
" (6 cyl.)	A	A	A	A	A	A	A	A	A	A
Service (4 cylinder)	A	A	A	A	A	A	A	A	A	A
" (6 cylinder)	A	A	A	A	A	A	A	A	A	A
Standard	A	A	A	A	A	A	A	A	A	A
Stanley Steamer	A	A	A	A	A	A	A	A	A	A
Stearns-Knight	A	Arc	A	Arc	A	Arc	A	Arc	A	Arc
Stephens	A	A	A	A	A	A	A	A	A	A
Studebaker	A	A	A	A	A	A	A	A	A	A
Stutz	A	A	A	A	A	A	A	A	A	A
Templar	A	A	A	A	A	A	A	A	A	A
Velie (4 cylinder)	A	A								
" (6 cylinder)	A	A								
Wasp	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
" (6 cylinder)	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
White	A	A	A	A	A	A	A	A	A	A
Willys-Knight	B	A	B	A	B	A	B	A	A	A
Willys-Six	A	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc
Winton	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc	Arc

HATCHETS

HICKORY Hand Forged, Non-Rusting

Extra Quality Cast Steel Body; Solid Punched Box Eye; Highest Grade Crucible Forged Steel Bit, Carefully Tempered by a Special Process which Insures Uniformity of Proper Degree: Razor Edge; Specially Hardened Steel Poll; NATURAL HAND FORGED, NON-RUSTING FINISH; Deep Etched; Selected Second Growth Hickory, Shaped Handles, MISSION GREEN FINISH.

BROAD OR BENCH
Single Bevel

Size, Nos.	HFB2	HFB3	HFB4
Width Cut, In.	4½	5	5½
Wt., Each, Lbs.	1¾	2½	2½
Per Dozen	$13.00	15.00	18.50
Size, Nos.	**HFB5**		**HFB6**
Width Cut, In.	6		6½
Weight, Each, Lbs.	2¾		3¾
Per Dozen	$18.50		20.00

FLOORING

Size, Nos.	HFF1	HFF2	HFF3
Width of Cut, In.	3¾	4⅛	4½
Weight, Each, Lbs.	1¼	1⅜	1⅝
Per Dozen	$14.00	15.50	17.00

CLAW

Size, Nos.	HFC1	HFC2	HFC3
Width of Cut, In.	3½	4	4½
Weight, Each, Lbs.	1⅞	1⅞	1⅞
Per Dozen	$10.25	10.75	11.25

SHINGLING

Size, Nos.	HFS1	HFS2	HFS3
Width of Cut, In.	3½	4	4½
Weight, Each, Lbs.	1¼	1⅜	1⅝
Per Dozen	$9.50	9.75	10.25

HALF

Size, Nos	HFH1	HFH2
Width of Cut, In.	3¼	3¾
Weight, Each, Lbs.	¾	1
Per Dozen	$9.75	10.25

LATHING

Size, Nos	HFL1	HFL2
Width of Cut, In.	2½	2¾
Weight, Each, Lbs.	⅝	1
Per Dozen	$8.25	9.75

All Above, Half Dozen in a Paper Box; Weights Given do not Include Handles

HATCHETS

WOODLAND—Painted Blue, Polished Bit

Special Quality, Cast Steel Body; Solid Punched Box Eye; Crucible Forged Steel Bit, Extra Tempered; Sharpened Ready for Use; Hardened Steel Head; **Painted Blue, Polished Bit;** Second Growth Hickory Handle

BROAD OR BENCH

Size, Nos.	WB2	WB3	WB4	WB5
Width of Cut, In.	4⅛	5	5½	6
Weight, Each, Lbs.	1¾	2¼	2⅝	2⅞
Per Dozen	$11.50	13.00	14.50	16.50

CLAW

Size, Nos.	WC1	WC2	WC3
Width of Cut, In.	3⅝	4	4⅛
Weight, Each, Lbs.	1⅜	1⅝	1⅞
Per Dozen	$8.00	9.50	10.00

SHINGLING

Size, Nos.	WS1	WS2	WS3
Width Cut, In.	3½	4	4½
Weight, Each, Lbs.	1¼	1½	1¾
Per Dozen	$8.00	8.50	9.00

HALF

Size, Nos.	WH1	WH2
Width Cut, In.	3¼	3½
Weight, Each, Lbs.	1⅛	1⅜
Per Dozen	$8.50	9.00

LATHING

Size, Nos.	WL1	WL2
Width Cut, In.	2¼	2½
Weight, Each, Lbs.	⅞	1
Per Dozen	$8.00	8.50

All Above, Half Dozen in a Paper Box; Weights Given do not Include Handles

LATHING HATCHETS

HICKORY

Extra Quality, Solid Tool Steel, Carefully Tempered Bit and Head, Full Polished and Stamped; Ground and Sharpened Ready for Use. Selected Second Growth Hickory Handles, Thoroughly Seasoned. Special Care is taken to have Every Hatchet Hung Properly

ADZE EYE, BELL POLL

Round Head, Checks Cut with Milling Machines

No.	105
Width of Cut, In.	2
Number of Scores	13
Weight Each, Oz.	13
Per Dozen	$14.50

PHILADELPHIA PATTERN

64 Points; Milled Head, 1⅛ In. Square

No.	20
Width of Cut, In.	2
Number of Scores	8
Weight Each, Oz.	13
Per Dozen	$16.00

CHICAGO PATTERN

81 Points; Milled Head, 1⅛ In. Square

No.	40
Width of Cut, In.	2½
Number of Scores	9
Weight Each, Oz.	15
Per Dozen	$18.00

Per Dozen

No. 140—Oval Face, Otherwise same as No. 40 $18.00

ST. LOUIS PATTERN

100 Points; Milled Head, 1⅜ In. Square

No.	41
Width of Cut, In.	2½
Number of Scores	10
Weight Each, Oz.	17
Per Dozen	$18.00

Per Dozen

No. 141—Oval Face, Otherwise same as No. 41 $20.00

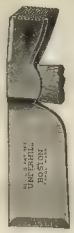
GENUINE UNDERHILL'S BOSTON STAR

Light, Strong and Rightly Balanced

Superior Quality Crucible Steel, Solid Forged Body and Bit, Carefully Tempered, Polished and Etched; Sharpened Ready for Use. Hardened Poll; Extra Full, Selected White Hickory Handles Shaped to Fit the Hand

BELL FACE

No.	U1
Width of Cut, In.	2
Rows of Scores	9
Weight Each, Oz.	19
Per Dozen	$27.00



CHICAGO

No.	U2
Width of Cut, In.	2
Rows of Scores	9
Weight Each, Oz.	20
Per Dozen	$24.75

ST. PAUL

No.	U3
Width of Cut, In.	2
Rows of Scores	9
Weight Each, Oz.	21
Per Dozen	$27.00

ST. LOUIS

No.	U4
Width of Cut, In.	2
Rows of Scores	10
Weight Each, Oz.	23
Per Dozen	$30.00

Half Dozen in a Box

NAIL HAMMERS

HICKORY

Carefully Forged From High Grade Bar Steel, Tempered Individually by Skilled Workmen and Toughened by a Secret Process. Uniform in Shape and Finish; Clear, Straight Grained, Second Growth Hickory Handles.

The Perfect Balance speaks for itself in the hands of a skilled mechanic. The claw will grip the shank of a nail so that it will draw a headless nail or a cement coated nail from the toughest oak

Octagon Neck and Poll, Full Nickel Plated; Mahogonized Hickory Handles

Nos.	4011½H	4012H
Size	1½	2
Weight Each, Oz.	16	13
Wt. Doz. Packed, Lbs.	18	14
Per Dozen	$42.00	31.00

Half-Dozen in a Box

ADZE EYE, CURVED CLAW, BELL FACE
Octagon Neck and Poll, Full Nickel Plated; All White Hickory Handles

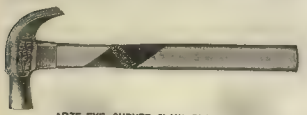
Nos.	4111½H	4112H
Size	1½	2
Weight Each, Oz.	16	13
Wt. Doz. Packed, Lbs.	18	24
Per Dozen	$37.50	27.70

Half-Dozen in a Box

Octagon Neck and Poll, Full Polished; All White Hickory Handles

Nos.	311½FH	32FH
Size	1½	2
Weight Each, Oz.	16	13
Wt. Doz. Packed, Lbs.	18	24
Per Dozen	$33.00	23.50

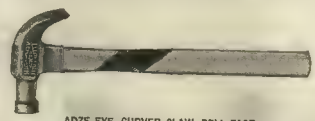
Half-Dozen in a Box



ADZE EYE, CURVED CLAW, PLAIN FACE
Full Polished; All White Hickory Handles

Nos.	0H	1H	1½H	2H
Size	0	1	1½	2
Weight Each, Oz.	28	20	16	13
Weight Dozen, Packed, Lbs.	27	21	18	14
Per Dozen	$27 50	25 00	23.00	22 00

Half-Dozen in a Box



ADZE EYE, CURVED CLAW, BELL FACE
Full Polished, All White Hickory Handles

Nos.	11H	11½H	12H	13H	14H
Size	1	1½	2	3	4
Weight Each, Oz.	20	16	13	7	5
Wt. Doz. Packed, Lbs.	21	18	14	10	6½
Per Dozen	$25 00	23 00	22 00	21.50	21 00

Half-Dozen in a Box

ADZE EYE, RIPPING OR STRAIGHT CLAW, PLAIN FACE
Full Polished; All White Hickory Handles

Nos.	701H	701½H
Size	1	1½
Weight Each, Oz.	20	16
Weight Dozen, Packed, Lbs.	21	18
Per Dozen	$25 00	23 00

Half-Dozen in a Box

ADZE EYE, RIPPING OR STRAIGHT CLAW, BELL FACE
Full Polished; All White Hickory Handles

Nos.	711H	711½H
Size	1	1½
Weight Each, Oz.	20	16
Weight Dozen, Packed, Lbs.	21	18
Per Dozen	$25.00	23.00

Half-Dozen in a Box

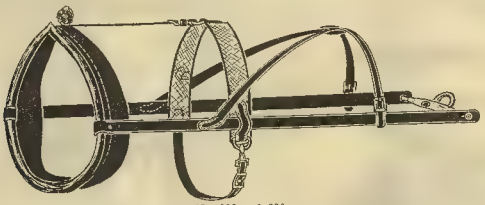
DOG SLEDS AND HARNESS

YUKON SLEDS

Made of Hickory, Well Bound, Mortise Braced, With High Curved Front, Bored for Roping

No. 7S	Full Length 7 ft., Width 16½ in., 1⅝-in. Runners, Steel Shoes, Weight 35 lbs.	Each, $10.00
No. 8S	Full Length 8 ft., Width 16½ in., 1¾-in. Runners, Steel Shoes, Weight 40 lbs.	" 12.00
No. 7B	Full Length 7 ft., Width 16½ in., 1⅝-in. Runners, Brass Shoes, Weight 35 lbs.	"
No. 8B	Full Length 8 ft., Width 16½ in., 1⅝-in. Runners, Brass Shoes, Weight 40 lbs.	"

DOG HARNESS



No. 620 and 630.

Moulton Pattern, With Nome Bamboo Rim Racing Collars

No. 620	1-in. Webb Traces, 1¼-in. Webb Back Band, Leather Couplings, with Hickory Whiffletree; Collar made from Calfskin with Bamboo Rim, extra light and durable	Per Set, $10.00
No. 630	1-in. Special Tanned Leather Traces and 1½-in. Back Band; otherwise same as No. 620	" " 11.00

Nome Style, With Long Traces. Without Crossover

No. 600	All Leather, 1½-in. Trace, Bamboo Rim Collar	Per Set, $11.00
No. 610	All Leather, 1¼-in. Trace, Bamboo Rim Collar	" " 12.00
No. 650	All Leather, 1¼-in. Trace, Iron Rim Collar	" " 8.00

EXTRA COLLARS

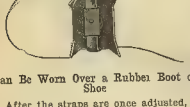
	Nome Racing Style, Bamboo Rim	
No. 111	Best Grade, 6 to 8 in.	Per Dozen, $42.00
No. 121	Best Grade, 8 to 10 in.	" " 48.00

	Iron Rim Style. Calfskin	
No. 181	Small Sizes, 5 to 6 in.	Per Dozen, $18.00
No. 171	Medium Sizes, 6 to 8 in.	" " 24.00
No. 161	Large Sizes, 8 to 10 in.	" " 30.00

In measuring for collars give inches from top to bottom of collar.

ICE CREEPERS

CLIMAX



Can Be Worn Over a Rubber Boot or Shoe

After the straps are once adjusted, a small split rivet should be put through the strap and the hole in the plate to prevent the Creeper from slipping to one side.

Climax . Per Doz., $6 00

ICE KING

Can Be Worn Over a Rubber Boot or Shoe

Thoroughly practical and largely sold in Alaska. Points are ¾ in. long with ⅞ in. shoulder, well riveted into plate.

Ice King.....Per Doz., $9.00

TAKU

This is our Special Design. Made with galvanized steel straps coming up over the edge of the sole, thus doing away with the only cause of complaint against the old Jamestown pattern. Galvanized iron plate, hardened steel points, webbing toe strap, best quality rubber heel band.

No. 1—Size for Men. Doz. Pairs, $15.00
No. 2— " " Women " " 15.00
One dozen pairs in a box. Wt. 4½ lbs.

SEATTLE HARDWARE COMPANY

WHEELBARROWS

TOY GARDEN

Nos.	0	1	2
Size of body, in.	9x12x5	11x14x5½	13x16x6
Diameter of wheel, in.	8	10	12
Handles, in.	30	32	36
Weight per dozen, lbs.	35	45	55
Per dozen	$29.25	37.25	41.75

Sheet steel sides, kiln-dried wood bottom, gears and wheels of steel, body enameled red, stenciled in gold. Gears and wheels, black enameled.

Packed one-half dozen in sealed carton.

VELOCIPEDES

STANDARD

Narow tread, oak tanned leather saddle; square, adjustable saddle post; rigid handle bar; black enameled frame.

Tinned Steel Wheels

Nos.	0	1	2	3
Front wheels, in.	14	16	20	24
Rear wheels, in.	10	12	14	16
Weight per dozen, lbs.	176	192	240	256
Each	$8.00	8.75	10.25	11.75

Tinned Steel Wheels, Rubber Tires

Nos.	1-R	2-R	3-R
Front wheels, in.	16	20	24
Rear wheels, in.	12	14	16
Weight per dozen, lbs.	200	215	240
Each	$15.00	16.25	17.75

Half-inch rubber tire on wheels, otherwise same as Nos. 1, 2 and 3.

One-half dozen in a case.

SLEDS

COASTER

Natural hardwood, varnished; top board painted and decorated, hand-holes on side.

No. 102—Size, 11x17 in. Full round spring shoes. Weight per dozen, 90 lbs. Per dozen, $18.00

No. 105—Size, 11x42 in. Full round spring shoes. Weight per dozen, 100 lbs. Per dozen, $27.00

One-sixth dozen in a bundle.

Spring-shod clipper; tops assorted hardwood and painted, three beams

No. 117—Size, 11½x46 in. Full round spring shoes. Weight per dozen, 150 lbs. Per dozen, $38.00

One sixth dozen in a bundle.

Steel frame and runners, painted red; hardwood top board, painted green.

No. 28 Length, 33 in. Height, 6 in Width, 12 in. Four knees Weight per dozen, 85 lbs. Per dozen, $33.00

No. 32 Length, 37 in. Height, 6 in. Width, 12 in. Four knees. Weight per dozen, 95 lbs. Per dozen, $36.00

One-sixth dozen in a bundle.

FLEETWING STEERING

Steel parts painted red. Tops have natural varnish finish.

No. 96—Length, 32 in. Height, 6 in. Width, 12 in. Weight per dozen, 80 lbs Per dozen, $48.00

No. 98—Length, 34 in. Height, 6 in. Width, 13½ in. Weight per dozen, 85 lbs. Per dozen, $60.00

No. 100—Length, 36 in. Height, 6 in. Width, 13½ in. Weight per dozen, 90 lbs. Per dozen, $60.00

No. 200—Length, 40 in. Height, 6 in. Width, 13½ in. Weight per dozen, 100 lbs. Per dozen, $66.00

One-sixth dozen in a bundle.

No. 300—Length, 45 in. Height, 8½ in. Width, 15 in. Weight per dozen, 145 lbs. Per dozen, $72.00

No. 400—Length, 51 in. Height, 8½ in. Width, 17 in. Weight per dozen, 185 lbs. Per dozen, $84.00

One sixth dozen in a bundle.

HOCKING VALLEY CIDER MILLS

The principle adapted is of the large hydraulic presses to a hand mill. The grinding device consists of a hardwood cylinder, revolving rapidly, with serrated steel knives running lengthwise which break down the juice cells and make a pomace that yields under the press every particle of juice in the fruit. A quart of water will clean it after using. An important feature of the mills is the absence of metal of any kind to rust or impair the quality of the cider. We guarantee them to be entirely satisfactory in every respect, in execution, ease of operation, capacity, in durability and finish.

JUNIOR

The Junior Mill is larger than other Juniors, and is almost equal in capacity to other Medium mills. It is designed especially for family use where it is not intended to make large quantities of cider, but only for use at odd times as convenience and leisure may permit. Furnished with crank and pulley when desired.

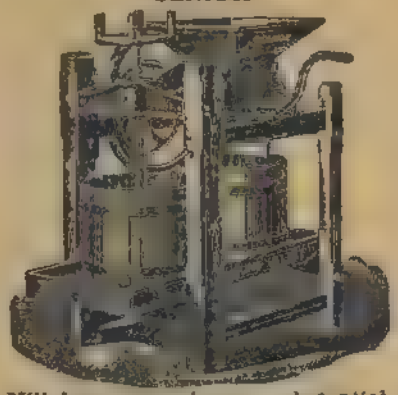
No.	Junior
Height of tubs, inch	12
Inside diameter of tubs, inch	10½
Weight each, lbs	172
Each	$

MEDIUM

The Medium Mill is about half way between our Junior and Senior in size and capacity, and is designed for general family use where something larger than a Junior is desired. It is often economy to have more capacity in a cider mill than actual needs seem to require. Our Medium is a splendid mill in every way, and is destined to become very popular. Furnished with crank and pulley when desired.

No.	Medium
Height of tubs, inch	13½
Inside diameter of tubs, inch	12½
Weight each, lbs	25[illegible]
Each	$
Power pulley for all sizes	Extra

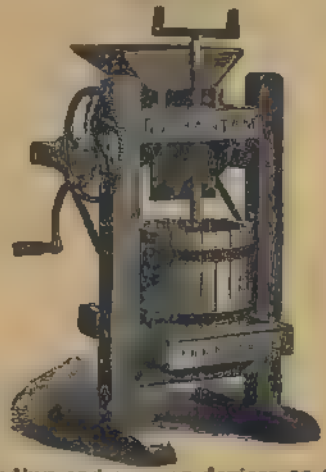
SENIOR



The Senior Mill has a very heavy, substantial frame, a cross head of extra weight and strength and is designed for use where considerable capacity is required. For use in warehouses and large orchards there is nothing made equal to it. It will grind more apples in a given time, and do it easier, and make more cider from the same quantity of apples than any mill offered to the trade. We furnish the Senior Mill with crank and pulley when desired.

No.	Senior
Height of tubs, inch	15
Inside diameter of tubs, inch	15½
Weight each, lbs	367
Each	$

BANTAM



The same grinding and grating devices as used on our larger mills, and the same that is used on all the large hydraulic presses is used in this model. It consists of a hardwood cylinder with serrated steel blades running lengthwise, which revolves rapidly and which breaks down all the juice cells and makes a pomace that yields under the press all the juice in the fruit. A quart of water will clean it after using. Intended for those who have only a small quantity of apples or grapes to work up.

No.	Bantam
Height of tub, inch	10½
Inside diameter of tub, inch	10
Weight each, lbs	113
Each	$
	Extra

CORN SHELLERS

ONE HOLE

This is a right hand one hole sheller with cast balance wheel and wrought spokes. It is well finished, durably made and attractive in appearance. The frame is made of hardwood and shafts of wrought iron. All parts are carefully fitted, they are easy of operation, and all gearing is placed inside, thus preventing accidents and breakage. The adjustable hopper renders it capable of easy adjustment to large or small corn.

One hole with fan table and adjustable hopper; weight, 130 lbs.....Each .....

TWO HOLE

This two hole sheller has a capacity double that of the one hole sheller. It has a cast balance wheel with wrought spokes It is well finished, durably made and attractive in appearance. The frame is made of hardwood and the shafts of wrought iron. All parts are carefully fitted, they are easy of operation and all gearing is placed inside, thus preventing accidents or breakage. The adjustable hopper renders it capable of easy adjustment to large or small corn. It is furnished with a crank and pulley, so that it can be used by power or by hand.

Two-hole with fan table, and driving pulley, without sacking elevator; weight, 201 lbs.. ..... Each .....
Two-hole with fan table, with driving pulley and sacking elevator; weight, 320 lbs.....Each ... .
Sacking elevators; weight, 90 lbs.....Each .....

HOCKING VALLEY FRUIT PRESSES

These presses represent the best that can be produced in this line. They are constructed of strictly high grade hardwood lumber, are thoroughly well made and handsomely finished.

Carried in three sizes: The No. 1 is small in capacity, No. 2 is most generally used, while No. 3 is designed for those having a considerable amount of fruit to crush.

Nos.	1	2	3
Height of tubs, inch...	10½	12	13½
Diameter of tubs, inch.....	8½	10½	12½
Weight, lbs	52	65	105
Each			

RECOIL PADS

No. 3

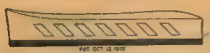
No. 3—Akron. Fine soft leather, to lace, with corrugated rubber pad made to fit. 12, 16 and 20 gauge shotgun. Weight, 3 lbs. ..... Per dozen $36.00

No. 35—Norka. Same style as No. 3 but with cheaper leather covering ..... Per dozen $30.00

SILVERS PATTERN

No. 26—Silvers Pattern. Guttapercha back with red rubber. Medium size, 12 gauge. Small size, 16 and 20 gauge. One in a carton. Weight, 10 ozs. ..... Each $4.00

ANTI-FLINCH



A perfect shock absorber.

No. 27—Anti-Flinch. Gutta percha back with red rubber. Hollow sections in rubber make a perfect shock absorber. One in a box. Weight, 10 ozs. ..... Each $4.50

To fitting Nos. 26 or 27 recoil pads to any gauge shot gun ..... Each $5.00

DUCK STRAPS

No. 249—Plain rawhide. Weight per doz. 2 lbs. . Per dozen $18.00

No. 161—Double leather center, sewed. With rawhide ends. Length, 30¼ inches. Width, 2½ inches. Weight per dozen, 4½ lbs. ..... Per dozen $20.00

DECOY DUCKS' STANDARD MODEL

Standard Model—Solid white cedar decoys. First quality glass eyes. Well painted. Canvas back, mallard, sprig, widgeon, blue-bill and teal. One dozen in a crate—8 male and 4 female. Crates will not be broken. Not less than one dozen of a specie. Weight per crate, about 45 lbs ..... Per dozen $18.00

HOLLOW CANVAS COLLAPSIBLE

Pneumatic and collapsible; hand painted and true to life. The waterproofing used will not permit the canvas to break or crack. Made in both male and female. Mallards, canvas back, sprig, teal and widgeon. Weight, about 4 ozs each.
No. 1 ..... Per dozen $18.00

DUCK CALLS

Cocobolo wood. Nickel tip.

No.	760
Length, inch	4½
Weight, lb	1
Per dozen	$3.00

One dozen in box.

ALLENS

Wood shell. Metal ends.

No.	7
Length, inch	6¼
Weight, lbs	1¼
Per dozen	$12.00

One-half dozen in box.

BROADBILL

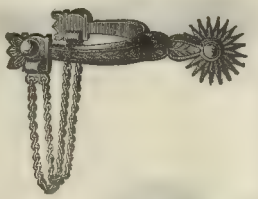
Will successfully imitate all wild ducks, from teal to mallard. Removable reed.

No.	270
Per dozen	$10.00

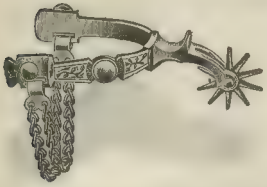
One in box.

SPURS

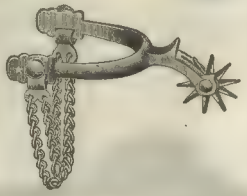
No. 1263—Filed and Chased; 1¾ in. Rowel..... Per Dozen Pairs $4.80



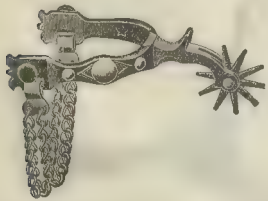
No. 1274—Burnished and Engraved; 1⅝ in. Rowel..... Per Pair $4.80



No. 1264—Gun Metal, with German Silver Spots..... Per Pair $3.70



No. 2262—Burnished..... Per Pair $1.50



No. 1263—Blued, German Silver Spots..... Per Pair $1 50

No. 225—Burnished..... Per Pair $1.40

SADDLE STRINGS AND STIRRUP LEATHERS

Made of California Latigo Leather

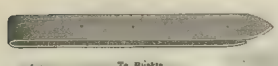
Length, In.	48	60	72
Width, In.	½	⅝	¾
Per Dozen	$5.50	6.30	5.10

Heavy Skirting; Plain Cut and Wheeled

Lined at Ends

No.	37	39
Width, In.	2½	2
Length, ft.	6½	6½
Per Pair	$8.50	11.00

LATIGOES



To Buckle

Made of Skirting Leather

	Per Dozen
No. 2—1¼x36 in.	$17.00

To Tie

Made of Skirting Leather

	Per Dozen
No. 3—1¼ in. x 6½ ft.	$23.20
No. 4—1¼ in. x 6½ ft.	25.00

SADDLE POCKETS

8x8 Inches; Oiled Skirting; Plain Cut and Wheeled, With Buckles and Billets.

	Per Pair
No. 40	$30.00

8x8 Inches; Oiled Skirting, Hand Stamped Basket Border, Buckles and Billets.

	Per Pair
No. 42	$42.00

SPREAD STRAPS

No. 6

No. 4-5

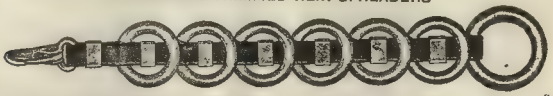
		Per Dozen
No. 6—⅝ in.	Black Strap; Ore 1¾ in. Duranold Ring; 2 Each Red, White and Blue Bone Rings; 7 Metal Loops	$11 40
No. 4—⅝ in.	Black Strap; 1 Each 1⅝, 1⅝, 1½ in. Red, White and Blue Celluloid Rings; 4 Celluloid Loops	18.50
No. 5—¾ in.	Black Strap, 1 Each 1⅞, 1¾, 1⅝ in. White Celluloid Rings; 5 Celluloid Loops	22 00
No. 8—⅞ in.	Black Strap; 1 Each Red, White and Blue Duranold Rings, Leather Slide Loops	7 20

		Per Dozen
No. 1 ⅝ in.	Harness Leather Strap with Sewed Loops; Slide Loops and One 1¾ in. Duranold Ring	$4.00
No. 2—¾ in.	Harness Leather Strap with Sewed Loops; Slide Loops and One 1¾ in. Duranold Ring	6.80
No. 3—⅝ in.	Harness Leather Strap with Sewed Loops; Slide Loops, **No Rings**	3.50

PLAIN SPREAD STRAPS
Two Sewed Loops; Without Ring

Size, In.	⅝x24	⅝x30	⅝x36	¾x24	¾x30	¾x36
Per Dozen	$4.00	5.30	6.00	5.30	5.70	6.30

CELLULOID TRIMMED REIN SPREADERS



		Per Dozen
No. C1—Black Strap; One 1¾ in. and Six 1¼ in. White Rings; 7 White Loops, 15 in. Long Over all		$23 50
No. C2—Red Strap; One 1¾ in. and Six 1⅛ in. White Rings; 7 Red, White and Blue Loops; 15 in. Long Over-all		25.60

		Per Dozen
No. A4—⅝ in.	Red Leather Strap, Five Red, White and Blue Discs, 1⅝ in. White End Ring, Six White Loops; Xo Snap	$18 00
No. A3—¾ in.	Russet Leather Strap; Three Red, White and Blue Discs; 1¾ in. White End Ring; Four White Loops, Xo Snap	$16.70

BRASS AND NICKLE TRIMMED REIN SPREADERS

No. 844

		Per Dozen
No. 844	—Four Assorted Composition Rings, Brass Slide Loops, with Imitation Rubber Snaps	$11.70
No. 844½—	Four Assorted Composition Rings, Nickel Slide Loops, with Imitation Rubber Snaps	11 70

		Per Dozen
No. 874—Brace with 1¼, 1½, 1¾ and 2 inch Brass Ornaments; 7⅞ in. Brass Ring, ⅝ in. Brass Slide Loops and ⅜ in. Brass Snaps		$1.25

HOTPOINT MOTOR OPERATED APPLIANCES

VACUUM CLEANER

MODEL V2

Motor housing, cleaner body and face cast aluminum. Fan is one-piece casting, rubber tired wheels, gear driven brush. Motor air-cooled, high speed, 9500 to 10,000 R. P. M. on 110 to 115 voltage. Motor mounted horizontally. Fan, 4⅜ inches diameter. Operates from lamp socket. Controlled by push button switch in handle. At 10 cents per KWH costs 1.7 cents to operate. Complete with sateen bag, 18 foot cord, oil case and bottle motor oil.

No.	112 V2
Nozzle, inch	12
Fan, inch	4⅜
Volts	110
Watts	170
Net weight each, lbs	13½
Each	$45.00

ATTACHMENTS EXTRA

Standard Voltage—The standard voltage for Vacuum Cleaners is 110. An extra charge of 75 cents net is made on all other voltages. 32 volts is the voltage for farm lighting plants.

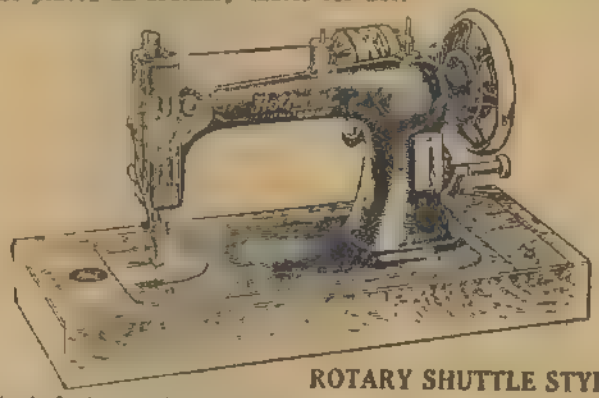
No.	112V2A
Net weight set, lbs	8
Shipping weight each, lbs	12
Per set	$11.00

ATTACHMENTS FOR VACUUM CLEANER

New Nos.	Old Nos.	Name	Model V 2
VC127	1	Steel tube to connect hose and tools	$1 45
VC125	2	Rubber extension hose	4.75
VC160	3	Blowing attachment	
VC260A	3	Blowing attachment	1 45
VC150	4	Radiator cleaner	.70
VC140	5	Clothes or wall cleaner	1 05
VC130	6	Nozzle cap	
VC230	6	Nozzle attachment	1 75
CD361		18-ft cord with attachment plug	2.15

SEWING MACHINES

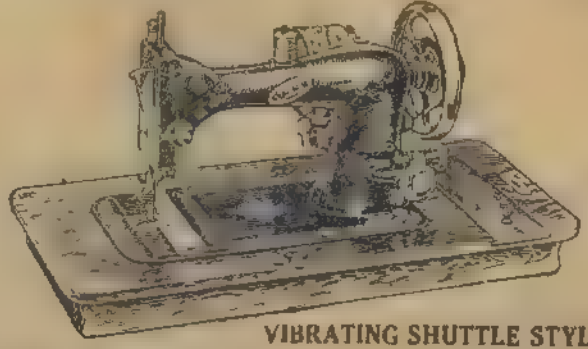
Complete with motor attached. Cord connecting motor to rheostat, and cord with attachment plug to connect rheostat with lamp socket. Woodwork highest quality golden oak. Full set of attachments in base drawer of each machine. Will produce about fifty per cent more stitches per minute than foot power machines, doing the same smoother. Hand grip on top of cover, so machine can be carried about as desired. These machines can be placed on ordinary tables for use.



ROTARY SHUTTLE STYLE

Latest design and best adapted to electric motors, as they will stand the speed developed. Bobbin holds more thread than any other machine. Shuttle and shuttle race housing are machined from one piece of steel. Non-clogging shuttle. Stitch regulator and tension regulator. Universal high speed motor on swinging bracket. Uses either alternating or direct current, and is reversible.

No.	S 16
Length base, inch	21
Width base, inch	9
Height with cover on, inch	14
Net weight, lbs	36
Shipping weight each, lbs	62
Each	$87.00



VIBRATING SHUTTLE STYLE

A standard pattern, known by every user of a sewing machine. To withstand the speed developed by the electric motor, all materials in vibrating shuttle style are of the best. No. 105S15 is termed "Full Head," for heavy work. No. 105S14 is termed "Three Quarter Head," and is standard household size. Bobbin winder on Full Head is positive drive, and on Three Quarter is spring operated. Adjustable tension, released when pressure foot is lifted. Four motion feed; short, self-threading needle; stitch regulator; positive thread take-up; drawn steel pressure bar.

Nos.	S 15	S 14
Length base, inch	22	21
Width base, inch	9	9
Height with cover on, inch	12	11
Net weight, lbs	30	30
Shipping weight each, lbs	65	58
Each	$70.50	62.00

All sewing machines are net prices. Contract prices do not apply.

ELECTRICALLY HEATED APPLIANCES

MAJESTIC HEATERS

Portable stand style. Parabolic reflector of burnished copper. Stand, brown enamel. Elements protected by wire guards. Equipped with 8 feet of cord. No. 7 cord has attachment plugs.

No.	7
Diameter heater, inch	11½
Diameter reflector, inch	9
Height, inch	16
Heating units	1
Watts	615
Amperes	5.8
Net weight, lbs.	
Shipping weight, lbs.	9½
Each	$12.00

Portable stand style. Parabolic reflector of burnished copper. Stand, brown enamel. Elements protected by wire guards. No. 8 requires special wiring. Equipped with 8 feet of cord.

No.	8
Diameter heater, inch	12½
Diameter reflector, in	10
Height, inch	18
Heating units	2
Watts	960
Amperes	9
Net weight, lbs	
Shipping weight, lbs	11
Each	$16.00

Portable stand style. Parabolic reflector of burnished copper. Stand, brown enamel. Elements protected by wire guards. Equipped with 8 feet of cord. No. 11 cord has attachment plugs.

No.	11
Diameter heater, inch	14½
Diameter reflector, inch	
Height, inch	19¼
Heating units	1
Watts	615
Amperes	5 8
Net weight, lbs.	7½
Shipping weight, lbs	10½
Each	$13.50

Portable stove style. Reflector, burnished copper. Front, top and bottom nickel plated iron. Back, Wellsville steel. Elements protected by removable wire guards. One turn starts middle unit. Two turns starts left unit. Three turns starts right unit. Four turns starts all units.

No. 4 may be attached to lamp socket.

No.	4
Size, inch	19x11x7¾
Heating units	1
Volts	110
Watts	615
Amperes	5.8
Net weight, lbs	8
Shipping weight each, lbs.	10
Each	$12.00

No. 5 requires special wiring and has 2 elements and no switch.

No.	5
Size, inch	21½x13¾x9¾
Heating units	2
Volts	110
Watts	960
Amperes	9
Net weight, lbs.	11¼
Ship, weight each, lbs	15½
Each	$15.00

No. 6 requires special wiring. Is furnished with a switch and heat may be regulated by turning on 1, 2 or 3 heating units.

No.	6
Size, inch	25½x17x10
Heating units	3
Volts	110
Watts	1440
Amperes	13 8
Net weight, lbs.	16¼
Ship weight each, lbs	20
Each	$20.00

SCALE WEIGHTS

Prices on Request

	Not Japanned, Per Dozen	German Bronzed, Per Dozen	Cast Brass Each	Quantity in a Box
½ Oz.	$ 23	$ .27	$ 25	3 Dos.
1 Oz	.32	36	.59	3 Dos.
2 Ozs.	.45	54	.81	3 Dos.
4 Ozs.	63	77	1 04	2 Dos.
8 Ozs	1 08	1 35	1.35	2 Dos.
1 Lb.	1 62	2 16	1.62	In Bulk
2 Lb.	2 70	3 51	3.24	In Bulk
4 Lbs.	5.13	6 75	5.67	In Bulk
8 Lbs.	9.72	13 50	9.72	In Bulk.

Weights in Sets	Not Japanned, Per Set	German Bronzed, Per Set	Cast Brass, Per Set	Quantity in a Pkg
½ Oz to 1 Lb.	$ 32	$ .36	$2.93	1 Set.
½ Oz to 2 Lb.	.54	68	5 40	1 Set
½ Oz to 4 Lbs.	99	1 17	9 90	1 Set.
½ Oz to 8 Lbs.	1 80	2 16	18 00	1 Set.

SCALES

HOWE

EVEN BALANCE

Enameled Red Finish Rubber Tipped Forks

Patent Frame and Wts. Complete.

Brass Scoop

	Capacity	Size of Scoop	Each	
No. 366—	½ Oz to 16 Lbs	23 x 12 Ins	$20.00	**$36.00**
No. 370 —	½ Oz to 10 Lbs	20 x 10 Ins	16 80	**30 40**
No. 374—	½ Oz to 6 Lbs	16 x 9 Ins.	13 00	**24.70**
No. 378—	½ Oz to 2 Lbs	13 x 7 Ins	12 00	**24.70**

COUNTER

HOWE VERMONT

Finished in Vermilion and Gold, Highly Ornamented Nickel-plated Double Beam and Sliding Poises Beam Graduated on Both Sides, Upper Bar 1 Oz to 10 Lbs Lower Bar, 8 Ozs to 40 Lbs Can be Used With or Without Scoop Large Platform in Proportion to Counter Room Occupied Beam Can Be Easily Read by Both Merchant and Customer

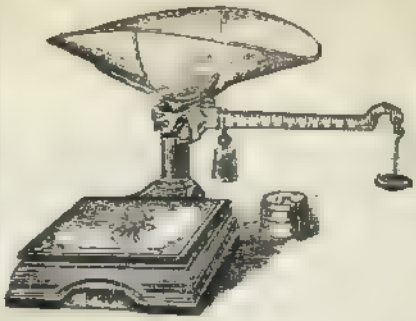
		Each	
No. 594—	With Extra Large Brass Scoop	$38.00	**$72.20**
No. 597 —	Without Scoop	34 00	**64.60**
No. 596—	With Marble Platform. Without Scoop	36.00	**68.40**

One in a box

WE ESPECIALLY SOLICIT AND PAY PARTICULAR ATTENTION TO MAIL ORDERS

PLATFORM SCALES

UNION COUNTER



Capacity, 240 Lbs From ¼ Oz Tin Scoop.

Will Pass the Inspection of the Sealers of Weights and Measures.

SINGLE BEAM

Enameled Red and Decorated

	Each
No. 1123—	**$33.40**

Enameled Black and Decorated

	Each
No. 1124—	**$38.30**

DOUBLE BEAM

	Each
No. 1123B—Enameled Red and Decorated.	**$34.30**
No. 1124B—Enameled Black and Decorated . .	**$1.40**

SINGLE BEAM PATENT FRAME

Beams Graduated as Follows: Upper Row of Figures, for Round Platform, ¼ Oz to 5½ Lbs.; Lower Row of Figures, for Square Platform 4 Ozs to 44 Lbs., Balance of Capacity Made up by Weights Capacity, ¼ Oz to 240 Lbs. Size of Platform, 10 x 14 Ins.

	Each	
No. H324—Brass Scoop . . .	$20.00	**$33.00**

Nos. 18 to 32

HOWE'S

Nos. 18 to 28 have Beams Graduated in ½ Lb. to 100 Lbs. On Other Numbers Beams are Graduated ½ Lb. to 100 Lbs.

Nos.	Old Nos.	Capacity, Pounds	Platform, Inches		Each	
18	4	2500 x ½	26 x 34	. . .	$90 00	**$171.00**
22	5	2000 x ½	23 x 32	. . . .	80 00	**152.00**
24	6	1500 x ½	21 x 30	. . . . .	60 00	**144.00**
28	8	1000 x ½	17 x 26	. . . . .	43 00	**81.70**
30	9	500 x ½	16 x 24	. . . . .	33.00	**62.70**

One in a case.

SCALES

TEA AND COUNTER

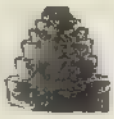
For Family Use Only. Not Guaranteed to Pass the Inspection of the Sealers of Weights and Measures.

With 4-in Plates and Two Forks. Length, Over All, About 10½ Ins. Tin Scoop 11½ x 16½ Ins

BLACK ENAMELED

		Per Dozen
No. 160—Capacity, 2 Lbs.	With 6 Weights	$33.75
No. 161—Capacity, 4 Lbs.	With 7 Weights	35.75

Weights Furnished with Each Scale



BUTCHERS'

WITH FLAT TIN PLATES

Enameled Red and Decorated

		Each
No. 1317—Capacity, 4 Lbs.	Size of Plate, 8 x 10 Ins.	$15.80
No. 1322—Capacity, 8 Lbs.	Size of Plate, 10 x 12 Ins	19.80

WITH FLAT MARBLE PLATES

		Each
No. 1320—Capacity, 4 Lbs.	Size of Plate, 8 x 10 Ins	$19.80

HATCH COUNTER AND MEAT

For Family Use Only

BLACK ENAMELED

8 Lbs. x ¼ Oz. Two Plates. One Balance Weight. 8 Weights.

	Per Dozen
No. 171	$180.00

BUTTER

Will Pass the Sealers of Weights and Measures

Round Porcelain Plates and Brass Side Beam. Strongly Made Graduated in Ounces.

RED ENAMELED

		Each
No. 1421—Plate, 8 Ins.	Capacity, About 4 Lbs.	$21.60
No. 1428—Plate, 10 Ins.	Capacity, About 8 Lbs.	23.80

One in a box.

Will Pass the Inspection of the Sealers of Weights and Measures

STEEL PIVOT

FANCY EVEN BALANCE

Tin Scoop With Adjusted Japanned Weights Black Japanned and Decorated.

			Each
No. 1247—Tea.	Capacity, 4 Lbs.	Medium Size	$9.15
No. 1252—Coffee.	Capacity 6 Lbs	Large Size	15.80
No. 1257—Sugar.	Capacity, 8 Lbs		18.40

PACKAGE

Two Plates Tin Scoop. With Balance Weight. Black Japanned and Decorated.

		Each
No. 1272—Capacity, 4 Lbs.		$15.80
No. 1277—Capacity, 8 Lbs.		19.80

GROCERS' CROWFOOT

WITH WEIGHTS, TIN SCOOP AND STEEL PIVOT

With Fork for Scoop

12 Lbs. x ¼ Oz. Japanned Red and Striped.

	Each
No. 1403	$14.40

12 Lbs. x ¼ Oz. Japanned Black and Striped

	Each
No. 1404	$13.70

No. 1303—26 Lbs. x ¼ Oz. Japanned Red and Striped. Each $15.80

With Plate for Scoop

26 Lbs. x ¼ Oz. Japanned Black and Striped.

	Each
No. 1304	$14.40

36 Lbs. x ¼ Oz. Japanned Red and Striped.

	Each
No. 1230	$17.00

36 Lbs. x ¼ Oz. Japanned Black and Striped.

	Each
No. 1240	$15.80

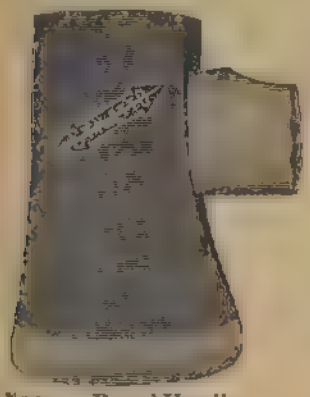
One in a box.

SINGLE BIT AXES

STILETTO

FULLY WARRANTED

Hand hammered, hand tempered and hand whetted. Bits made of highest grade crucible forged steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel bodies with hardened polls Perfect eyes to insure correct hang.



California Ohio Pattern

Rustless Black Finish. Deep Gold Etching

UNHANDLED

No.	Weight, lbs	Base weights Per doz
100	3, 3½, 4, 4½, 5	$38 00

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
100A	—Stiletto—	Oval	$48 50
100B	—Stiletto—	Octagon	48 50
100C	Hand Made	Oval	48 50
100D	Pacific	Oval	48 00
100E	Pacific	Octagon	48.00

Michigan Pattern

Rustless Black Finish. Deep Gold Etching

UNHANDLED

No.	Weights, lbs	Base weights Per doz
103	3, 3½, 4, 4½, 5	$38.00

HANDLED

Nos.	Brand Handle	Shape Handle	Base weigh s Per doz
103A	—Stiletto—	Oval	$48 50
103B	—Stiletto—	Octagon	48 50
103C	Hand Made	Oval	48 50
103D	Pacific	Oval	48 00
103E	Pacific	Octagon	48.00

Michigan Pattern

Gold Bronzed Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weights, lbs	Base weights Per doz
203	3, 3½, 4, 4½, 5	$35.50

HANDLED

Nos	Brand	Shape	Base weights Per doz
203A	—Stiletto—	Oval	$46.00
203B	—Stiletto—	Octagon	46 00
203C	Hand Made	Oval	45.75
203D	Pacific	Oval	45.75
203E	Pacific	Octagon	45.75

HUNTS

FULLY WARRANTED

Bits made of highest grade crucible steel, drawn thin and tempered hard to hold a fine cutting edge Soft steel body and hardened polls.

Michigan Pattern

Black Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weight, lbs	Base weights Per doz
900	3, 3½, 4, 4½, 5	$35.50

HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
900D	Pacific	Oval	$45.00
900S	Sterling	Oval	42 00

HUNTS

California-Ohio Pattern

Black Body. Polished Head and Bit. Labeled.

UNHANDLED

No.	Weight, lbs	Base weights Per doz
903	3, 3½, 4, 4½, 5	$37 00
	6, 7, and assortments	

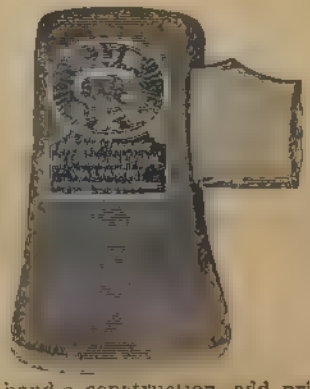
HANDLED

Nos.	Brand Handle	Shape Handle	Base weights Per doz
903D	Pacific	Oval	$46 50
903S	Sterling	Oval	43 50

CUB

FULLY WARRANTED

Hand forged from highest grade crucible steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel body, hardened poll.



Michigan Pattern

Natural Black Finish. Labeled

UNHANDLED

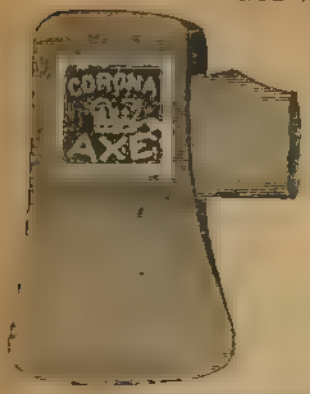
No.	Weight, lbs	Base weights Per doz
653	3, 3½, 4, 4½, 5	35.50
	And assortments	

HANDLED

No.	Brand Handle	Shape Handle	Base weights Per dox
653S	Sterling	Oval	$42.00

For weight of handled axes add 16 lbs per dozen. For other handle construction, add price of handles to price of unhandled axes, plus 75c per dozen for handling. For handles only see page 221.

SINGLE BIT AXES
CORONA
NOT WARRANTED



Made to meet the demand for a satisfactory low priced axe for general household purposes. The bits are tempered to withstand severe usage.

Michigan Pattern
Gold Bronzed Body. Polished Head and Bit. Labeled.

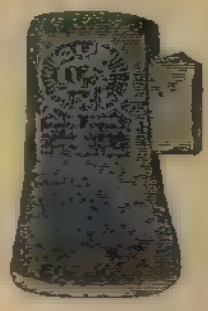
HANDLED

Handled with Rodgers oval handles.

Assorted 3 to 4, 3½ to 4½ and 4 to 5 pounds.

No. 808.....Per dozen $35.00

HOUSEHOLD AXES
CUB
FULLY WARRANTED



Hand forged from the highest grade crucible steel. Tempered bits and polls.

Michigan Pattern. Natural Black Finish. Labeled.

HANDLED

No.	H 703
Sterling handle, inch	18
Weight each, without handles, lbs.	2¼
Per dozen	$25 00

FREIGHTERS AXES
~~Stiletto~~

FULLY WARRANTED

Made from highest grade crucible steel. Same high grade construction as in regular pattern ~~Stiletto~~ axes.

California-Ohio Pattern

Rustless. Black Finish. Deep Gold Etching.

HANDLED

No.	F 100
~~Stiletto~~ handle, inch	32
Weight each, without handle, lbs.	2¾
Per dozen	$27.00

STERLING
FULLY WARRANTED

Special crucible forged steel bits.

California-Ohio Pattern. Labeled

Red Body. Hollow Blued Bevels. Polished Bit.

HANDLED

No.	F 703
Rodgers handle, inch	32
Weight each, without handle, lbs.	2¾
Per dozen	$24.50

BOYS AXES
~~Stiletto~~

FULLY WARRANTED

Made from highest grade crucible steel. Same high grade construction as in regular pattern ~~Stiletto~~ axes.

California-Ohio Pattern

Rustless. Black Finish. Deep Gold Etching.

HANDLED

No.	91
~~Stiletto~~ handle, inch	28
Weight each, without handle, lbs.	2¼
Per dozen	$30 00

CUB

FULLY WARRANTED

Made from high grade steel along same lines of construction as the regular pattern Cub axes.

Michigan Pattern

Natural Black Finish. Labeled.

HANDLED

No.	93
Sterling handles, inch	28
Weight each, without handle, lbs	2¼
Per dozen	$22.00

STERLING
FULLY WARRANTED

Forged steel, tempered bits

California-Ohio Pattern. Labeled.

Red Body. Hollow Blued Bevels. Polished Bit.

HANDLED

No.	94
Rodgers handle, inch	28
Weight each, without handle, lbs.	2¼
Per dozen	$22.00

CORONA
NOT WARRANTED

Made to meet the demand for a satisfactory low priced boys axe. Tempered bits

Michigan Pattern

Gold Bronzed Body. Polished Head and Bit. Labeled

HANDLED

No.	95
Rodgers handles, inch	28
Weight each, without handle, lbs.	2¼
Per dozen	$25 00

All above, about 48 lbs per dozen.
One-half dozen in a case.

ICE BREAKERS OR CUTTING MACHINES

CHANDLER'S IMPROVED

CAST IRON FRAMES AND HOPPERS

Galvanized

Counter Size. Ht., 12½ Ins. Opening, 5½ x 4½ Ins. Takes Up Space 6 x 6½ Ins. Square. Wt., Each, About 10 Lbs.

	Each	
No. 1	$7.00	**$8.40**

Galvanized

With Pan. Family Size. Capacity About 4 Lbs. of Ice. Ht., 14 Ins. Opening, 6½ x 5½ Ins. Takes Up Space 7 x 7½ Ins. Square. Wt., Each, About 19 Lbs.

	Each	
No. 2	$10.00	**$12.00**

Japanned.

With Pan. Hotel Size. Capacity About 12 Lbs. of Ice. Ht., 18 Ins. Takes Up Space 8 x 11 Ins. Square. Japanned Pan. Wt., Each, About 25 Lbs.

	Each	
No. 2½	$16.00	**$19.20**

Confectioner's Size. Capacity About 25 Lbs. of Ice. Ht., 24 Ins. Takes Up Space 15 Ins. Square. Each

No. 3—Wt., Each About 85 Lbs. $40.00 **$48.00**

One in a crate.

ICE AXES

FULL POLISHED. ROUND CUT. 28 INCH SELECTED HANDLES

Bit, 2½ Ins. Lgth. of Head, 10½ Ins.

Per Dozen

No. 150 $16.00 **$28.50**

With Hook

Bit, 2½ Ins. Length, 7½ Ins.

Per Dozen

No. 165 $18.00 **$31.20**

Quarter dozen in a package.

ICE HATCHETS

PHILADELPHIA PATTERN. FULL POLISHED

Tempered Steel Edge and Point. Lgth. 11 Ins. White Hickory, 14-in. Handle.

Per Dozen

No. 163 $23.50

Solid Steel. Tempered. Lgth., 9½ Ins. White Hickory, 12-in. Handle.

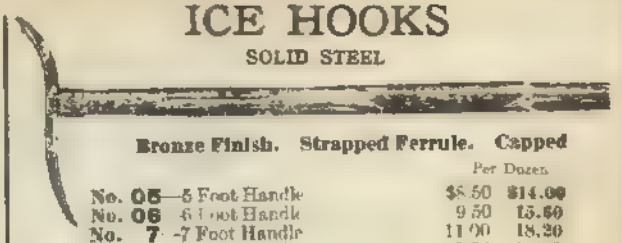
Per Dozen

No. 164—$19.20

Half dozen in a paper box.

ICE HOOKS

SOLID STEEL



Bronze Finish. Strapped Ferrule. Capped	Per Dozen	
No. 05—5 Foot Handle	$8.50	**$14.00**
No. 06—6 Foot Handle	9.50	**15.60**
No. 7—7 Foot Handle	11.00	**18.20**
No. 8—8 Foot Handle	12.50	**20.40**

Loose

ICE PICKS

HURWOOD

Blade, 5½ Ins. ¼-in. Steel. Ebonite Finish Handles. Iron Banded Head.

Per Dozen

No. D—Entire Length, 9½ Ins. $7.25

One dozen in a box.

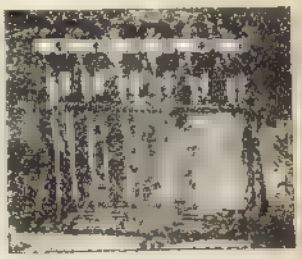
HURWOOD

One Dozen No. D Picks on a Display Stand, 11½ x 4½ x 6½ Ins. Green Mosaic Finish. Wt. Per Doz., Abt. 5 Lbs.

Per Dozen

No. E $7.60

One display in a box.



Entire Length, 10½ Ins. Length of Blade, 5½ Ins.

HURWOOD

Per Dozen

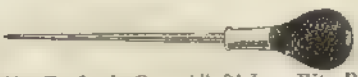
No. A—¼-in. Steel. $4.65

HURWOOD

Per Dozen

No. C—¼-in. Steel. $4.25

Half dozen in a box. Wt., per doz., about 2 lbs.



HURWOOD

Blade, 5½ Ins. ¼-in. Steel. Ebonite Finish Handles. Per Dozen

No. B—Lgth., Over All, 9½ Ins. Wt., Per Doz., Abt. 4 Lbs. $4.65

Half dozen in a box.

Needle Point Blade 5½ Ins. ¼-in. Steel Polished and Nickel Plated Blade and Ferrule. Black Enameled Wood Handle. Lgth., Over All 8½ Ins.

Per Dozen

No. 1100—Wt., Per Doz., Abt. 2 Lbs. $2.85

One dozen in a box.

Needle Point. Blade, 5½ Ins. ¼-in. Steel Polished and Nickel Plated Blade. Black Enamel Handle with Iron Cap.

Per Dozen

No. 1101—Lgth., Over All, 9 Ins. $3.40

Needle Point. Pick 5 ins. long. Polished cherry stained hardwood handle with nickel plated steel cap and ferrule.

Per Dozen

No. 9—Lgth., Over All, 8½ Ins. $2.00

ICE PICKS

NEEDLE POINT

Finest Grade of Steel Extreme Length, 8½ Ins.

Per Dozen

No. 500—Finished in Black Enamel $2.70
No. 502—Head Finished in Full Nickel Plate 3.00
One dozen in a box

Polished Forged Steel Blade, 5¼ Ins. ¼-in. Steel. Hardwood Handle. Malleable Iron Caps

Per Dozen

No. 03—Lgth, Over All, 9 Ins. $4.30
Half dozen in a box.

Polished Wood Handle Tinned Iron Cap. Blade, 4½ Ins.

Per Dozen

No. 02—Lgth, Over All, 7½ Ins. $3.00

DIAMOND POINT

Blade, 5¼ Ins. Polished Wood Handle. Nickel Plated Iron Cap

Per Dozen

No. 5—Lgth, Over All, 9 Ins. $2.20
One dozen in a box

SIX IN ONE

Nickel Plated. Length, Over All, with Point, 5¼ Ins. Length, Closed, 4¼ Ins. Handle Contains Six Points, 1¼ Ins Long. Point Held by Steel Screw. Brass Screw in Handle

Per Dozen

No. 61. . . . . $6.40
One dozen in a display box

SOLID HEAD

Sliding. ¼ In Round Nickel Plated Blade, 4¼ Ins. Long. Closed Length, 7 Ins. Extended, 9½ Ins. Solid Nickel Plated Head. Flat on One Side.

Per Dozen

No. 111—One Dozen in a Box $6.00

SLIDING

¼ In. Round Iron Blade, 8¼ Ins. Long. Length Over All, Closed, 8 Ins. Extended, 12¼ Ins Solid Iron Handle with ¼-in Head.

Per Dozen

No. 901—**Japanned Handle.** Tinned Blade $3.80
No. 1901 **Tinned Handle** 3.85
Half dozen in a box

ICE PICKS

WITH RENEWABLE REMOVABLE POINT

Hardwood Ebonized Handle. Solid Brass Interior. Finest Carbon Tool Steel Points. Renewable Points Very Easy to Replace

Per Dozen

No. 1 . . . . . $7.00
No. EP—Extra Points 3.00

ICE CHISELS

Polished Blade 3½ x 2 Ins. Hardwood Handle with Iron Cap.

Per Dozen

No. 101—Lgth. Over All, 7½ Ins. $3.00
One dozen in a box.

Polished Blade, 4½ x 2½ Ins. Hardwood Handle, with Iron Cap.

Per Dozen

No. 1897 Lgth, Over All, 10 Ins. $4.00
One dozen in a box.

LONG HANDLE

Heavy Steel Blade. Malleable Iron D Handle, Iron Socket. Ash Handle

Per Dozen

No. 42—Lgth, Over All, 42 Ins. $30.00

LIGHTNING

Galvanized Cast Iron Frame Four ⅛-in Tempered Steel Pins with Beveled Cutting Ends. Brass Ferrule. Hardwood Handle, Securely Bolted to Socket. Width of Frame, 2½ Ins. Length, Over All 9½ Ins.

Per Dozen

No. 1L—Wt., Per Doz., About 14 Lbs. $13.50

[illegible]

Galvanized Cast Iron Steel Blade, with 4 Points, Riveted on Brass Ferrule. Hardwood Handle Securely Bolted to Socket. Width of Frame, 2½ Ins.

Per Dozen

No. 1S—Lgth. Over All, 9½ Ins. $13.50

STAR

Heavy Galvanized Iron Handle, 3 Needle Points Width at Shoulder, 1¼ Ins.

Per Dozen

No. 10—Lgth, Over All, 3½ Ins. $4.10
One dozen in a case

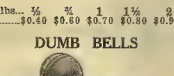
ATHLETIC ACCESSORIES

INDIAN CLUBS

Maple

Weight Each, lbs...	½	¾	1	1½	2	3	4
Per pair	$0.40	$0.60	$0.70	$0.80	$0.90	$1.50	$2.00

DUMB BELLS



Maple

Weight Each, lbs...	½	¾	1	1½	2	3	4
Per pair	$0.40	$0.60	$0.70	$0.80	$0.90	$1.50	$2.00

Japanned

Wt. Each, lb...	2	4	6	8	10	12	15	20
Per pound	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20	$0.20

VAULTING POLES

Spruce

Made of extra light and strong selected spruce. Shod with durable steel spike.

No. 864—16 feet ..... Each, 8 00

Bamboo

No. 306—16 feet. ..... Each, 10 00

IRON SHOT

No. 882—16-pound ..... Each, 3.00

QUOITS

Cast Iron, Japanned

No. 176—1 lb. each ..... Per set of four, $2.00
No. 177—2¼ lbs. each ..... Per set of four, 3.00
No. 178—3¼ lbs. each ..... Per set of four, 4.00

DISCUS

OLYMPIAN

Maple, With Brass Center

No. 173—An exact reproduction of those used in the Olympian games at Athens, guaranteed correct; weight each, 4½ lbs
Each $7.00

No. 318—Malleable iron, same shape and size as No 173.
Each $3 50

IRON HAMMERS

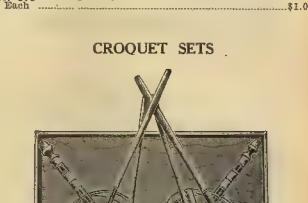
Flanagan Style. Wire Handle

No. 870—12-pound ..... Each, $5 50
No. 872—16-pound ..... " 6 50

HAMMER HANDLES

No. 873—Flanagan style wire handles for above hammers.
Each $1.00

CROQUET SETS



No. 104—Four-Ball Set, rock maple balls and stakes, varnished, beaded mallets, oiled, with maple handles, ten polished iron arches, in dove-tailed wood box with hinged cover. Weight, per set, 15 lbs. ..... Per set, $2.50

No. 108—Eight-Ball Set, rock maple balls and stakes, varnished, beaded mallets, oiled, with maple handles, ten polished iron arches, in dove-tailed wood box, with hinged cover. Weight per set, 23 lbs. ..... Per set, $4.00

No. 128—Eight-Ball Set, all parts varnished, mallets painted, two eight color stakes, ten polished iron arches, in dove-tailed wood box. Weight per set, 25 lbs. ..... Per set, $4.00

No. 138—Eight-Ball Set, eight finely painted mallets, hand turned, 6-in. long turned handles, with nine fancy stripes, highly polished five-striped balls, two large beaded fancy striped eight-color stakes, heavy galvanized arches, in dove-tailed wood box. Weight per set, 30 lbs. ..... Per set, $6.00

No. 144—Four-Ball Set, medium grade professional, full varnished and striped balls, handels and stakes; 8-in. mallets, with short handles, painted and striped; galvanized arches, in dove-tailed wood box. Weight per set, 20 lbs. ..... Set, $4.00

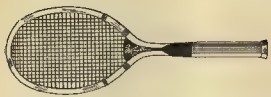
No. 148—Eight-Ball Set, medium grade professional, full varnished and striped balls, handles and stakes; 8-in. mallets, with short handles, painted and striped; galvanized arches, in dove-tailed wood box. Weight per set, 34 lbs. ..... Set, $8.00

No. 164—Special Four Ball set, hand-turned rock maple, with shellac finish; 9-in. ebonized and bronzed mallets, ebonized and bronzed balls and handles. Two large beaded fancy striped and bronzed four-color stakes, with heavy galvanized arches; in dove-tailed wood box. Weight per set, 24 lbs. Per set $7.00

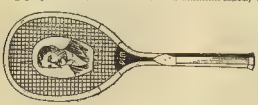
SEATTLE HARDWARE COMPANY

TENNIS RACKETS

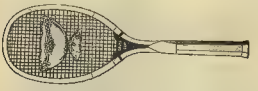
WRIGHT & DITSON



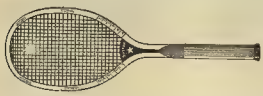
The McLoughlin—Made exactly according to specifications furnished by Mr. Maurice E. McLoughlin. The frame is strongly reinforced at the throat, where the strain comes. Strung with special tournament gun, the finest quality obtainable. The shape is that used almost exclusively by ranking players.....Each, $12.50



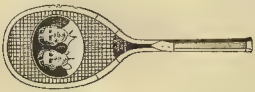
Davis Cup—This Racket is wider across the throat than other models, thus having a greater play surface and greater driving power. This Racket is well made and strung with selected gut.....Each, $12.50



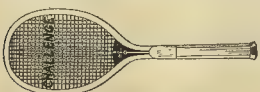
Ward & Wright—Style C—With Extra Center Strings. The strongest Racket made. Will stand restringing better than any other style Racket. Frame is of specially selected ash; the gut is the best imported.....Each, $12.50



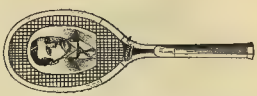
Sutton Star—Has a long, narrow head, with a 5¼-inch handle that does not taper until nearly reaching the throat. Strung with the very best lamb's gut, and in weights 14, 14¼, 14½ and 15 ounces.....Each, $12.50



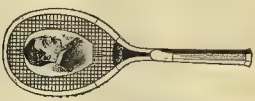
Pim—Is recognized as one of the leading Rackets of the country. The frame is made of lively ash, bound with strong tape near the throat. Strung with best quality lamb's gut, with two extra center strings.....Each, $9.00



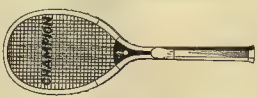
Challenge—This Racket is made of selected gut, the frame being made of a high-grade selected ash.....Each, $7.50



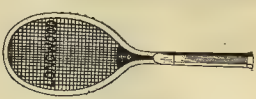
Campbell—This Racket is a new oval shape and has met with great success and popularity among the players. Strung with a fine quality gut.....Each, $7.50



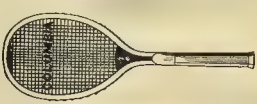
Sears—Latest model, strongest and best playing shape yet introduced in this grade. Strung with fine quality lamb's gut. Extra center strings.....Each, $7.50



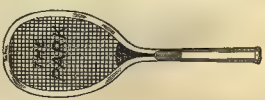
Champion—Made in the new and popular Ward & Wright shape. Strung with an excellent quality of Oriental gut.....Each, $5.00



Longwood—This Racket for a long time has been one of the most popular. Now, with its new shape, it is sure to be more popular than ever.....Each, $5.00



Columbia—Made after the latest and most approved style. Contains extra center strings, and is strung with good quality gut.....Each, $4 00



Park Full size and a very popular shape. Strung with a good quality white gut. Well finished throughout.....Each, $3.00

STORE LADDERS

MYERS

Clear Georgia pine ladder. Varnished. Open panel sides, 5 inches wide. Malleable iron dowel tees support each step on both ends. Fixtures malleable iron. Self-adjusting trolley with 3-inch anti-rattler wheel with cushion rubber tires and turned steel bearings. Double angle steel track suspended from ceiling by lag screws. Complete with clamp, bracket and end stops.

The floor wheel or travelers are 5 inches in diameter, composed of metal sides with cush on rubber tires, clamped in such a position that they cannot become loose. They run on a steel axle without friction or noise.

*Myers Ladder Complete—Width of ladder, 12 inches. Width of steps 5 inches. Average weight each, 50 lbs..... Each $27 00

*Myers Steel Trolley Track—Complete with hangers. Average weight per foot, 2 lbs. .....Per foot $0.40

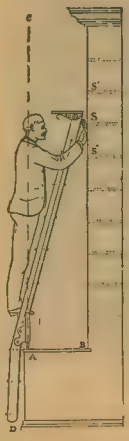
*Rubber Tires for Track and Floor Wheels—Average weight each, ¾ lbs .....Each $0.65

Directions for Ordering Myers Store Ladders.

Give exact height to ceiling and length of each track. If height of ceiling varies give height of ceiling at each end and center of each run of track.

*For shipment from factory only.

*IOWA



No. 5

Bent or Straight for Base Shelf.

Made from selected hardwood, bent or straight, with nickel plated or japanned mountings. Smooth steel track. Accurately turned and deeply grooved wheels. Roller fenders at base shelf are heavily rubber clad and mounted with adjustable bearings, making the operation of ladder smooth and noiseless. Provided with two wide shelves at top of ladder.

No. 5—Shipping weight each, 40 lbs.....Each $20.00

Track for Iowa with japanned mountings. Weight per foot, 1 lb.....Per foot .25

Track for Iowa with nickel plated mountings. Weight per foot, 1 lb.....Per foot .40

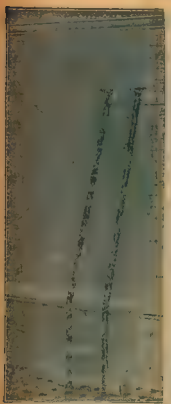
*For shipment from factory only.

HOW TO ORDER BICYCLE OR IOWA LADDERS

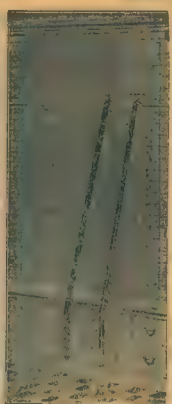
Refer to cut on this page and give the following measurements: D to C; D to A; A to B; B to S; B to S feet and B to S inches. State length of track wanted and the number of uprights of all kinds in the shelving, and say what they are whether solid uprights, partition boards, turned spindles or whether iron brackets are used to support the shelving. Be sure and send both a front view and the end view diagram of your shelving and tell us all you can about it. The more we know of your shelving the better we can serve you.

*For shipment from factory only.

*BICYCLE STORE LADDERS



Bent or Straight for Floor



Bent or Straight for Base Shelf

Bicycle Ladders also made to turn corners, either on base shelf or floor.

Made of oak or yellow pine. Natural finish, with japanned or nickel plated mountings. Noiseless steel track on either base shelf or floor; supports the entire weight of ladder and operator, relieving all liability of ladder falling or shelves sagging. Turned pole at top guides the upper end of ladder in moving it. Top of ladder has two hooks which fit over pole, preventing it from tipping backward. Fitted with extra wide top shelf for convenience in handling stock.

No. 1—Oak. Bent or straight. Base shelf or floor. Shipping weight each, 40 lbs.....Each **$20.00**

Yellow Pine. Bent or straight. Base shelf or floor. Shipping weight each, 35 lbs.....Each **18.00**

Ladders over 12 feet in length.....Extra **2.00**

Ladders for sloping floor..... " **2.00**

No. 3—Oak. Base shelf or floor ladders to turn corners. One section of bent pole is included. Shipping weight each, 40 lbs.....Each **24.00**

Yellow Pine. Base shelf or floor ladders to turn corners. One section of bent pole is included. Shipping weight each, 35 lbs.....Each **22.00**

Additional bent poles..... " **1.00**

*TRACK FOR BICYCLE LADDER BASE SHELF OR FLOOR

Bronzed steel rail and special pole with black japanned brackets. Weight per foot, ½ lb.....Per foot **$0.50**

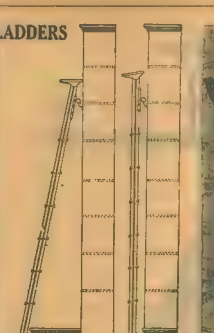
Bronzed steel rail and special pole, with nickel plated brackets. Weight per foot, ½ lb.....Per foot **.60**

Nickel plated rail and special pole with black japanned brackets. Weight per foot, ½ lb.....Per foot **.60**

Nickel plated rail and special pole with nickel plated brackets. Weight per foot, ½ lb.....Per foot **.75**

Track prices quoted include rail for bottom and guide pole for top, complete with all necessary brackets, screws, pole ends, etc., finished ready to put up with a screw driver.

*For shipment from factory only.



No. 1 Auto Straight. For Floor.

No. 9 Chicago Straight. Trolley Type

*AUTO

This ladder used where it is not desirable to have track on the floor. It is guided by upper guide alone. The hooks are arranged to slide in a slot so as to adjust themselves automatically to the position of the pole, permitting the bottom of the ladder to be pulled out from the shelving for easy climbing or to be pushed up close to be out of the way. Adapted for short runs and cramped places where room is limited. Made from selected hardwood. Nickel plated or japanned finished mountings, provided with smooth treads to run on bare floor.

No. 7—Shipping weight each, 46 lbs.....Each **$20.00**

*Guide track or pole for Auto Ladder. Japanned mountings. Weight per foot, 1½ lbs.....Per foot **.50**

Guide track or pole for Auto Ladder. Nickel plated mountings. Weight per foot, 1½ lbs.....Per foot **.60**

*CHICAGO

Made of yellow Georgia pine with plain sides, or natural finish oak with ornamental open work sides. Japanned mountings. Consists of two wheels each at top and bottom. Track is open, permitting the use of large wheels. A special device prevents tipping of ladder, and it cannot possibly get off track.

When so ordered the Chicago Ladders are made to turn corners or follow any crooked or curved track.

No. 9—Yellow Georgia Pine with plain sides. Shipping weight each, 50 lbs.....Each **$20.00**

Natural Oak Finish with ornamental open work sides. Shipping weight each, 50 lbs.....Each **24.00**

For ceilings over 15 feet high, add to above prices.....Extra **2.00**

Double Steel Track for Chicago Ladders, with wood center, complete with hangers, screws, etc. Weight per foot, 1 lb.....Per foot **.50**

Wood ceiling strips..... " **.10**

Curves for track.....Extra **2.00**

To order the Chicago Ladders, give the height of ceiling, length of each track and number of ladders wanted for each run. State whether ceiling is plastered, wooden ceiling or open joists. Ceiling strips will only be sent when expressly ordered. Any suitable strip of wood, five inches wide, will answer the purpose, and can usually be supplied by the customer and saves the freight.

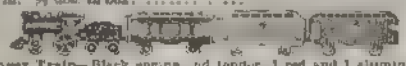
IRON & STEEL TRAINS

In spite of the inflated cost of raw materials we are enabled through some very advantageous quantity contracts to offer you some exceptional values. Sure for size and quality for quality we challenge you to equal these plain printed prices

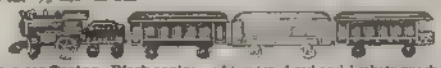
PAINTED IRON TRAINS

1 Coach Passenger Train—Black engine and tender, red coach.
F3155—9½ in. 1 doz. in pkg. Doz. $2.10

2 Coach Passenger Train—Black engine and tender, 2 red coaches.
F3157—13½ in. ½ doz. in box. Doz. $3.25

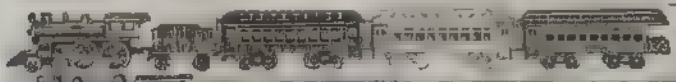


3 Coach Passenger Train—Black engine and tender, 1 red and 1 aluminum coach, blue observation car.
F3159—17 in. ½ doz. in box ....Doz. $4.45

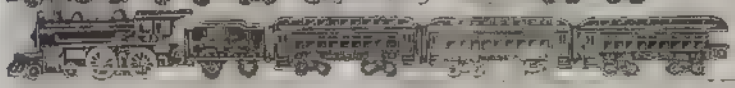


3 Coach Passenger Trains—Black engine and tender, 1 red and 1 white coach, blue observation car, gilt trim.
F3161—9 in. ½ doz. in pkg. Doz. $ 2.40
F3162—13½ in. ½ doz. in box. " 3.90
F3163—17 in. 1 in box. Each 1.15

3 Car Stock Train—Black enameled engine and separate tender, gilt trim, 3 stock cars, sliding doors, red painted caboose, patent couplings.
F3164—32 in. 1 in box. ....Each, Out

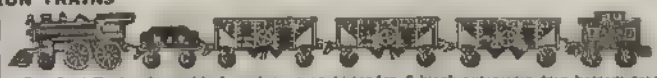


3 Car Coal Train—Black enameled engine and separate tender, gilt trim, 3 coal cars, red painted caboose, patent couplings.
F3165—32 in. 1 in box. ....Each, Out



3 Coach Passenger Train—Extra large black engine with piston rods, separate tender, large red and white coaches, blue observation car, gilt trim, patent couplings.
F3166—40 in. 1 in box. ....Each, $2.75

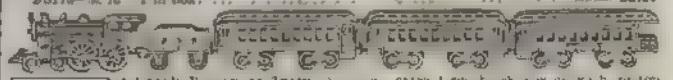
3 Coach Passenger Train—Extra large black engine with piston rods, separate tender, red and white coaches, blue observation car, gilt trim, patent couplings.
F3167—46 in. 1 in box. ....Each, $3.50



4 Car Coal Train—Large black engine, separate tender, 2 black automatic drop bottom coal cars, 1 red caboose, gilt trim, patent couplings.
F3170—32 in. 1 in box ....Each $1.85

3 Coach Passenger Train—Large black engine and separate tender, red and white coaches, blue observation car, gilt trim, patent coupl...
F3172—34 in. 1 in box Each $2.1...

3 Car Coal Train—Extra large black engine with piston rods, separate tender, 2 coal cars, automatic drop bottom coal cars, patent couplings.
F3173—32 in. 1 in box. ....Each, $2.25



STAR VALUE

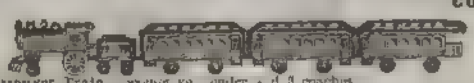
6 Coach Passenger Train—Extra large black engine with piston rods, separate tender, 2 nickel finish coaches, observation car polished and painted, coupl...
F3168—1 in box. ....Each, Out

STAR VALUE

3 Coach Passenger Train—43½ in., extra large black engine with piston rods, separate tender, large red and white coaches, blue observation car, gilt trim, patent couplings.
F3169—1 in box. ....Each, $2.75

3 Coach Passenger Train—Extra large black engine with piston rods, separate tender, red and white coaches, blue observation car, gilt trim, patent couplings.
F3171—46 in. 1 in box .. Each, $3.50

COPPER FINISH TRAINS



6 Coach Passenger Train—Extra large engine, tender and 6 coaches.
F3174—42½ in. ½ doz. in box Doz. T. O. 9.00

3 Coach Passenger Train—Extra large engine with separate tender, 2 coaches and observation car, burnished tops and edges.
F3176—31 in. 1 in box .. Each, $1.85

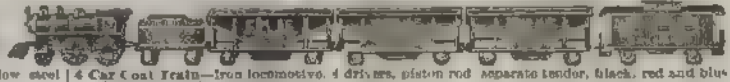
STEEL TRAINS—With Iron Locomotives

Well modeled black enameled iron locomotives, gilt trim, ventilator, moving wheels

2 Coach Passenger Train—Iron locomotive, attached tender, 2 red steel coaches.
F3182—17 in. ½ doz. in box Doz $4.15

3 Coach Passenger Train—Iron locomotive, attached tender, red, white and blue steel coaches.
F3184—31 in. ½ doz. in box $8.50

3 Coach Passenger Train—Iron locomotive, attached tender, red, blue and yellow steel coaches.
F3185—27 in. ½ doz. in box Doz $5.40



4 Car Coal Train—Iron locomotive, 4 drivers, piston rod, separate tender, black, red and blue steel coaches.
F3186—44 in. 1 in box Temp Out

TOY STEEL RANGES

Excellent quality and workmanship. Great care given to details, make real ranges. Hinged lids are removable lids. Fire boxes will burn. Coal, numbers complete with the all steel ... essential of miniature cooking utensils. **All** the following are extra good values. COMPARE GOODS AND PRICES

LATEST TYPE BLACK STEEL TOY RANGES

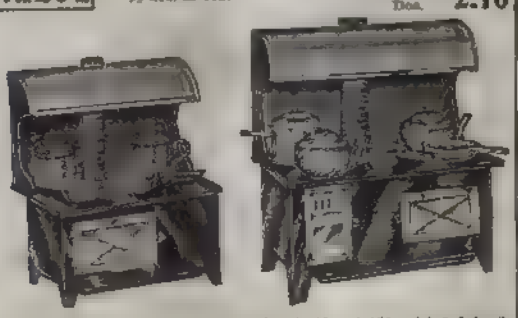
F2836 F2838 F2837

F2836—8¼x4½x2¼, trait, red brick finish, 3 bright metal utensils, 1 doz. in box, 2 doz. in pkg. Temp Out (Total)

F2838—8½x4½x2¼, special black finish with red brick fire box, large overhanging hood, 3 bright metal utensils, 1 doz. in box. Doz. To Arrive

STAR VALUE

F2837—6½x5½x3½, rounded hood, beveled edges, nickeled oven door, 3 small utensils, 1 large utensil with cover. ½ doz. in box. Doz. $2.10



F2830 F2838

F2830—8x8½x4, nickel plated hood and oven door sauce pot, large fry pan, 2 kettles with covers. ½ doz. in box. Doz. $4.50

F2838—10½x8x4¼, nickeled hood, oven door and grate door, 2 extra large fry pans, stew pot and 2 large handled kettles. ½ doz. in box. Doz $9.00

POLISHED STEEL TOY RANGES

F3053 F3054 F3057

STAR VALUE

F3053—3½x3½x4½, 2 hole stamped steel body, stationary lids, skillet black pipe, 4 doz. in pkg. Doz. $2.25

F3054—3½x4½x3, high shelf back, molded lids, ½ doz. in box $2.40

F3057—5x4x6, polished steel body, black pipe, 4 loose lids, hinged door & lifter, ½ doz. in box. Doz. $4.50

F3081—12x5½x9, high shelf back, stove pipe, hearth, reservoir cover, detachable extension sides, 4 loose lids, nickeled hinged door, 4 loose lids, copper finish lifter, kettle, shovel and skillet, 1 in box. Each $2.25

F3058 F3060

F3058—4x4½x5½, black pipe, burnished nickel hinged doors and bezel, 4 loose lids, copper finished lifter, skillet and stove lifter, ½ doz. in box. Doz. $8.90

F3062—8x4½x8¼, high shelf nickel back, hearth, reservoir cover, 4 loose lids, copper finish lifters, skillet and kettle, ½ doz. in box $1.00

F3060—10x4½x9½, high shelf back with stove pipe, hearth, reservoir cover, detachable extension sides, 4 loose lids, copper finish lifter, kettle, kettle, shovel and skillet, burnished nickeled hinged door, 1 in box. Each $1.60

F3062

F3062—14x6½x13, high shelf back stove pipe, water tank with cover, hinged oven with oven door, reversible grates, hearth, 4 large lids, 5 large copper finish lifters, 1 in box. Each $3.25

If you want to be sure of having plenty of TOYS to sell, get your order in at once before the rush begins to break

STEEL TOYS

Showing the best values. No effort has been spared to assemble this complete line of popular priced steel toys. This how a countries only big selling numbers— the well known names that bring repeat orders items. Buy here and be assured that you will receive dependable goods at the lowest possible prices. Order at once.

NOVELTY PULL TOYS

Auto Asst—3 styles, [illegible] and ambulance, litho in colors, pas[illegible]

F2563—Asstd 1 doz. in box ..Doz. $1.20

Aeroplane—[illegible] spread [illegible] 5 [illegible] strong wood propeller [illegible] rubber [illegible] Turns on propeller [illegible] top plane

F2568—1 doz. in box.....Doz. $2.15

F2565

MISCELLANEOUS TOYS

Telephone—Hi[illegible] red & black enameled adjustable mouthpiece, 2¾ in. receiver [illegible] long stripe enameled hook

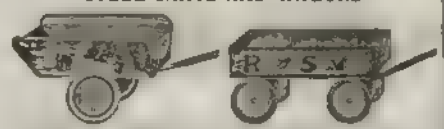
F2561—1 doz. in box..... Doz 95c

Butterfly—Width 9 in., steel, natural litho [illegible] wings, metal pattern in white [illegible] above door, [illegible] in turned wood handle

F2566—9½ " 1 " ... " 2.15

F2565-66

STEEL CARTS AND WAGONS



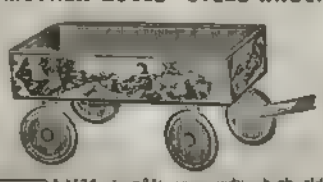
F2532 F[illegible] length 20 in. Sa[illegible] litho body with fluted edge, finished in 6 colors, green inside, 3½ in. red painted disc wheels, wire handle with loop. 1 doz in box, Doz. $1.15

F2531 — Educator wagon, length over all 23 in., 3½x6¾ litho body, alphabet and animal figures, green painted bottom, 2 in., yellow painted solid wheels, free turning front axle, wire handle with loop. 1 doz. in box Doz $1.15

ARTILLERY STEEL TRUCK

F2552 [illegible] dapple gray steel horse, red litho driver and [illegible] green and [illegible] gun, [illegible] spring [illegible] axle, 4 [illegible] to steering [illegible] teeth [illegible] spoke wheels, made in box ½ doz. in pkg Doz $8.85

"MOTHER GOOSE" STEEL WAGON



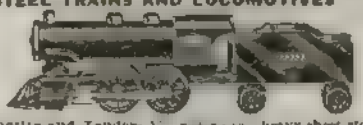
STAR VALUE

F2534 4½x8¾ in. body, [illegible] sides with [illegible] nursery pictures, gay [illegible] Four [illegible] red enameled steel wheels, [illegible] front axle, [illegible] red painted turned [illegible] handle 1 doz in box Doz **$2.25**

STEEL TRAINS AND LOCOMOTIVES

Steel Passenger Train—[illegible] baked red enameled cars, gold striped [illegible] green outlined, each in box

F2557—½ doz. in pkg. Doz. $7.95



Locomotive and Tender—[illegible] heavy sheet steel [illegible] construction, baked red enameled finish gold striped [illegible]

F2558—2 in pkg Total $1.70 Each, 85c

STAR VALUE

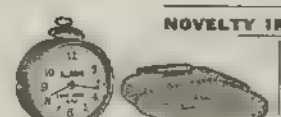
Steel Locomotive—Length 30 in., ht. 8½, red baked enameled steel body, detachable [illegible] open cab, [illegible] moving, open spoke steel wheels and [illegible] rod nickeled gong.

F2560—1 in carton [illegible] Each, **$1.85**

TOY BANKS

Up-to-the-minute novelties. The sale of toy banks is enormous, largely due to the spirit of thrift sweeping through the country. It will pay you to put in a good stock of banks this year. We offer you the biggest values on the market. Compare our prices with what others ask and you will buy here.

NOVELTY IRON BANKS



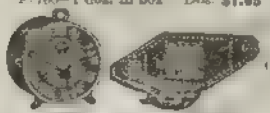
Steel Clock—[illegible] steel body [illegible] alarm [illegible] Dial [illegible] Dozen

Tank—[illegible] steel body [illegible] duck outside [illegible] can be [illegible] Dozen in box Doz. 95c

Safe—[illegible] double strength [illegible] lock and key [illegible] Dozen in box Doz. $1.25

Castle—8½x7¾x3¾ in., silk finish, perforated doors and windows.

F2766—1 doz. in box Doz. $1.65



Clock—[illegible] Dozen

War Tank—[illegible] of [illegible] caterpillar tread [illegible] 4½x8¾x3¾ in., 1 doz in box Doz. $2.10

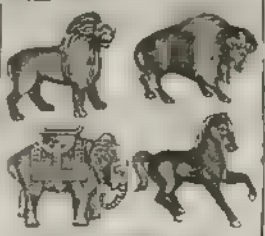
F2[illegible] Dozen in box Doz. $4.25

Building—[illegible] in skyscraper and castle, aluminum finish sides, gilt tops.

F2543—Asstd 1 doz in box Doz. $2.00

Animal Asst—6 styles, [illegible] gilt enamel with painted saddle, donkey, horse, cow, dog and rooster. Doz.

F2745—Asstd ½ doz. in box. $2.25



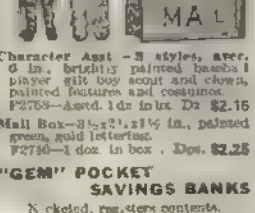
STAR VALUE

Animal Asst—4 styles, [illegible] all [illegible] and white [illegible] and black horse, silvered hoofs

F[illegible] Asstd. 1 doz in box Doz. Tomy Out

Watch Type—8½ in. for 25 dimes, [illegible] gilt finished metal dial face, etched ring for chain, opens automatically. Especially designed [illegible] the [illegible]

F2[illegible] doz in box $2.25



Character Asst—3 styles, asst. 6 in., brightly painted baseball player gilt boy scout and clown, painted features and costumes.

F2758—Asstd. 1 dz in box Dz $2.15

Mail Box—3½x2½x1¾ in., painted green, gold lettering.

F2740—1 doz. in box . Doz. $2.25

"GEM" POCKET SAVINGS BANKS

Nickeled, registers contents.

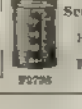
Spring Top—1 doz. in box.

F2730—For 20 nickels. . .Temp. Out

Screw Top—1 doz. in box

F2727—For 50 [illegible] Doz. 95c

F2725—For 50 pennies.. Doz. $1.25



F2725

F2727

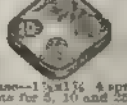
THRIFT BANK

F2730 [illegible] in. [illegible] metal screw [illegible] Dozen

POCKET COIN HOLDERS

Tin Case—[illegible] coin compartment for pennies, nickels and dimes.

F2725—3 doz. in box Doz. 75c



Nickel Case—1¾x1¾, 4 spring compartments for 5, 10 and 25c pieces.

F2731—1 doz. in box.. Doz. $1.75

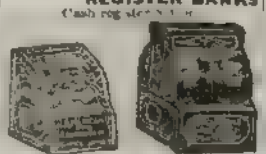
NOVELTY WALL TELEPHONE BANK

Exact copy of the Large wall telephone. Combining the features of a toy and a bank. You can sell this at 10c and realize good profits

F2581 [illegible] high [illegible] litho [illegible] Dozen

REGISTER BANKS

Cash reg[illegible]



F2730 F2731-32

"American"—3¾x3¾x3¾, registers [illegible] [illegible] on [illegible] [illegible] [illegible]

IVER JOHNSON REVOLVERS

SAFETY HAMMER DOUBLE ACTION

22 CALIBRE, RIM FIRE, 7 SHOTS

Nos.	Length of barrel, inch	Finish	Weight each, ounces	Each
JA223N	3	Nickel	12¾	$15 00
JA223B	3	Blued	12¾	15 50
JA225N	5	Nickel	14¼	15 75
JA225B	5	Blued	14¼	16.25

32 S & W CALIBRE, CENTER FIRE, 5 SHOTS

Nos.	Length of barrel, inch	Finish	Weight each, ounces	Each
JA323N	3	Nickel	12¾	$15 00
JA323B	3	Blued	12¾	15.50
JA324N	4	Nickel	13¼	15 50
JA324B	4	Blued	13¼	16 00
JA325B	5	Blued	14¼	16.25

38 S & W CALIBRE, CENTER FIRE, 5 SHOTS

Nos.	Length of barrel, inch	Finish	Weight each, ounces	Each
JA383¼N	3¼	Nickel	18	$15 00
JA383¼B	3¼	Blued	13	15 50
JA384N	4	Nickel	18½	15 50
JA384B	4	Blued	18½	16 00
JA385B	5	Blued	19	16.25

SAFETY HAMMERLESS, DOUBLE ACTION

32 S & W CALIBRE, CENTER FIRE, 5 SHOTS

Nos	Length of barrel, inch	Finish	Weight each, ounces	Each
JH322N	2	Nickel	12¼	$15.75
JH322B	2	Blued	12¼	16.25
JH323N	3	Nickel	12¾	15 75
JH323B	3	Blued	12¾	16.25
JH324N	4	Nickel	13¼	16 25
JH324B	4	Blued	13¼	16 75
JH325B	5	Blued	14¼	17.00

38 S & W CALIBRE, CENTER FIRE, 5 SHOTS

Nos	Length of barrel, inch	Finish	Weight each, ounces	Each
JH383¼N	3¼	Nickel	17¾	$15 75
JH383¼B	3¼	Blued	17¾	16.25
JH384N	4	Nickel	18½	16 25
JH384B	4	Blued	18½	16.75
JH385B	5	Blued	19¼	17.00

SAFETY HAMMER WESTERN GRIP

Fitted with the New Western walnut grip. Checkered square butt stock.

Nos.	Calibre	Length of barrel, in	Finish	Weight each, lbs	Each
JAW324B	32	4	Blued	1	$18.25
JAW325B	32	5	Blued	1⅛	18 50
JAW384B	38	4	Blued	1¼	18 25
JAW385B	38	5	Blued	1¼	18 50

DOUBLE ACTION, BULL DOG PATTERN

RIM FIRE, 7 SHOTS

No.	Calibre	Finish	Length of barrel, in	Each
DA222½N	22	Nickel	2½	$8.00

CENTER FIRE, 5 SHOTS

Nos.	Calibre	Finish	Length of barrel, in	Each
DA322½N	32	Nickel	2½	$8 00
DA322½B	32	Blued	2½	8 50
DA382½N	38	Nickel	2½	8 00
DA382½B	38	Blued	2½	8 50

Weight each, 10 to 14 ozs, according to length and calibre.

HAMMER

Fitted with loading gate and rubber target stocks.

Nos.	Calibre	Finish	Length of barrel, in	Each
LT384½N	38	Nickel	4½	$9 00
LT384½B	38	Blued	4½	9.50

Weight each, 15 ozs.

REVOLVERS
BRANDED U. S.

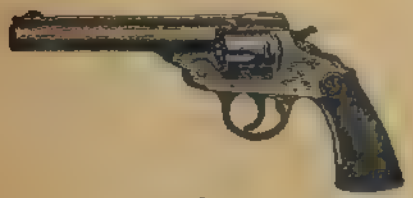
CENTER FIRE. 5 SHOTS

HAMMERLESS

Nos.	Calibre	Finish	Length of barrel, inch	Weight each ounces	Each
U. S. H. 322B	32	Blued	2	10	$13 50
U. S. H. 323N	32	Nickel	3	12	13 00
U. S. H. 323B	32	Blued	3	12	13.50
U. S. H. 383N	38	Nickel	3	15	13.00
U. S. H. 383B	38	Blued	3	15	13.50
U. S. H. 385B	38	Blued	5	21	14.00

HAMMER

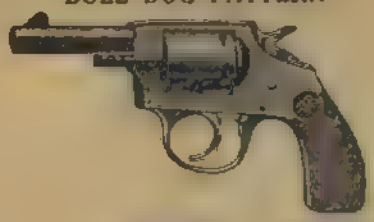
Fitted with perfect grip



Nos.	Calibre	Finish	Length of barrel, inch	Weight each ounces	Each
U. S. G. 385B	38	Blued	5	23	$15.00

Nos.	Calibre	Finish	Length of barrel, inch	Weight each ounces	Each
U. S. A. 322B	32	Blued	2	10	$12.50
U. S. A. 323N	32	Nickel	3	12	12.00
U. S. A. 323B	32	Blued	3	12	12.50
U. S. A. 383N	38	Nickel	3	15	12.00
U. S. A. 383B	38	Blued	3	15	12.50

DOUBLE-ACTION
BULL DOG PATTERN



RIM FIRE. 7 SHOTS

Nos.	Calibre	Finish	barrel, in	Each
U. S. DA 22 2½ N	22	Nickel	2½	$6 00
U. S. DA 22 2½ B	22	Blued	2½	6.50

CENTER FIRE. 5 SHOTS

Nos.	Calibre	Finish	Length of barrel, in	Each
U. S. DA 32 2½ N	32	Nickel	2½	$6.00
U. S. DA 32 2½ B	32	Blued	2½	6 50
U. S. DA 38 2½ N	38	Nickel	2½	6.00
U. S. DA 38 2½ B	38	Blued	2½	6.50

Weight each, 12 to 14 ounces, according to length and calibre.

HARRINGTON & RICHARDSON

Automatic double action

CENTER FIRE. 5 SHOTS

HAMMERLESS

Nos.	Calibre	Finish	Length of barrel, inch	Weight each ounces	Each
H. R. H. 322N	32	Nickel	2	12	$13 00
H. R. H. 322B	32	Blued	2	12	13 50
H. R. H. 323N	32	Nickel	3	12¾	13 00
H. R. H. 323B	32	Blued	3	12¾	13 50
H. R. H. 382½N	38	Nickel	2	12¾	13 00
H. R. H. 382½B	38	Blued	2	12¾	13 50
H. R. H. 383¼N	38	Nickel	3¼	18½	13 00
H. R. H. 383¼B	38	Blued	3¼	18½	13.50

HAMMER

Nos.	Calibre	Finish	Length of barrel, inch	Weight each ounces	Each
H. R. A. 322B	32	Blued	2	12	$12 50
H. R. A. 323N	32	Nickel	3	12¾	12 00
H. R. A. 323B	32	Blued	3	12¾	12 50
H. R. A. 382½B	38	Blued	2	16	12 50
H. R. A. 383¼N	38	Nickel	3¼	18	12 00
H. R. A. 383¼B	38	Blued	3¼	18	12.50

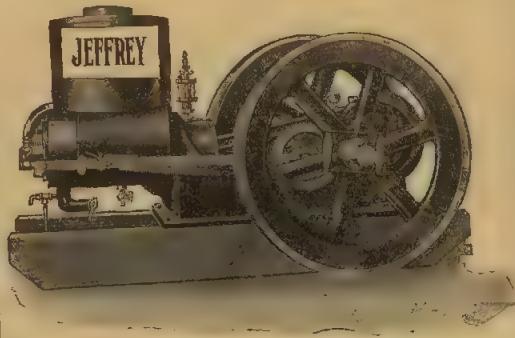
JEFFREY GASOLINE AND KEROSENE ENGINES

30 DAY FREE TRIAL
FIVE YEAR BINDING GUARANTEE

We guarantee every Jeffrey engine we sell to be made of the very best material and workmanship and to be free from flaws or imperfections of any kind. Any part showing defect within a period of five years will be replaced free of charge. We guarantee that every engine will develop 15 per cent more than its rated horse power and be as economical in fuel consumption, either gasoline or kerosene, as any engine made. We guarantee it will reach you safely and complete in every way and when given water, fuel and oil will start and run satisfactorily, pulling 15 per cent more than its rated horse power.

Furthermore, we agree that you are to have the privilege of testing engine for 30 days and should it not please you in every particular, you are to have the privilege of returning it at the end of thirty days, and all money and transportation charges will be refunded. We, however, must be notified before engine is returned, and same must be shipped direct to the manufacturer—not to us.

HOLMES CO-OPERATIVE COMPANY.



Jeffrey Gasoline and Kerosene Engines are constructed of the best of materials; by skilled gasoline engine workmen in one of the largest, most complete and up-to-date factories in the United States. Every late, modern, up-to-date improvement, which is of any special benefit to gasoline or kerosene engines, is embodied in the Jeffrey's, making it the most economical fuel burning engine on the market. Each and every engine is covered by our binding, written guarantee, which is backed by the factory manufacturing this engine, also by ourselves, so in buying a Jeffrey engine you are sure of getting an engine that is constructed properly; an engine that is really 15 per cent larger than its rated horsepower; an engine that will start easy; run right and give you the service and satisfaction possible to obtain from any gasoline engine built, regardless of the price.

Jeffrey Engines are shipped Direct to you from Factory and sold to Co-Operative Members at Factory Prices. No Jobber, Wholesaler, or Retailer gets a profit on the Jeffrey Engine. Compare our prices with your dealers. You will find that we save you from 40 to 60 per cent.

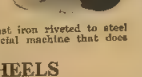
CYLINDER AND BED

The Jeffrey Engine Cylinder and Bed is cast in one solid piece. Notice illustration carefully as to the massiveness of its construction. Observe the size and shape of main bearings. The bed is designed for strength and safety and eliminates any danger of parts slipping, becoming loose or getting out of alignment. This also means that the mechanism operates in perfect harmony. It prevents the possibility of ill fitting joints and bearings furthermore it decreases the great power absorbant friction, thus producing a quiet and smooth running engine. The cylinder is carefully bored, reamed and faced by special machines insuring a perfect fit with piston. Troublesome and unsealed for packings have been eliminated in its entire construction by building the cylinder head and cylinder in one piece.

CYLINDER HEAD AND VALVES

The head of the Jeffrey is like the cylinder, is water cooled in all sizes except the 1¼ and 2 H. P. In these small sizes there is not enough heat generated to require it.

Jeffrey Valves are of extra large dimensions, allowing the incoming charge to completely fill the cylinder and the exhaust to be expelled freely without back pressure. The heads are made of cast iron riveted to steel stems, and are ground into their seats on a special machine that does it perfectly.



THE IGNITOR

Jeffrey Engines are regularly equipped with the make-and-break system of ignition, so called by reason of the way it works. It consists of one stationary insulated electrode and one movable one, called the hammer both fitted with special points. When the proper time to fire the charge occurs the hammer is tripped and both points of the electrodes brought in contact. This closes the electric circuit for an instant and as they fly apart a good hot spark is generated. It is a very simple, reliable system, easy to understand and rarely ever causes trouble.

FLY-WHEELS

While it may seem that fly-wheels are not of much consequence, they are really quite an important part of an engine. It is a favorite place for manufacturers who wish to cheapen their engine to cut out weight. It would be almost impossible to get a ½ wheel too heavy. Its function is to store up energy and to carry the engine over the idle stroke. This is a dimension the careful buyer will look into critically in selecting an engine. The Jeffrey fly wheels are large, carefully machined, perfectly balanced, and of large dimensions and ample weight.

PISTON RINGS AND CONNECTING ROD

Both piston and rings are made of the best close grained iron, accurately machined and finished in special machines. Piston is the extra long trunk type ground to fit cylinder perfectly. Connecting rod is of the "I" beam section made of material that positively will not crystalize. It is fitted with bronze bearings at piston and special hearts at crank end, with provision for taking up wear at both places. Piston pin is steel ground and hardened. Rings are made then locked in a special machine, returned and ground, insuring a perfectly gas-tight piston.

CRANK SHAFT

Crank shafts in the Jeffrey Engines are of ample size, of full length, the pulley is keyed directly to the shaft instead of being bolted to the fly-wheel. This makes it possible for you to use any pulley that will fit the shaft.

Cranks are forged from a solid piece of special high carbon steel, turned and ground absolutely true.

The size of the crank is an excellent criterion of the quality of an engine. It is to the engine what legs are to a horse. Don't buy any engine without knowing the diameter of the crank shaft.

CARBURETOR

Carburetor is of our special design suction feed from fuel tank located in base of engine. It is simple, fool-proof and absolutely reliable, has an air shutter for easy starting and will not leak gasoline even if valve is left open. It is so constructed that the fuel is mixed automatically with the proper amount of air to produce a perfect explosion.

THE GOVERNOR

The governor of the Jeffrey is very simple, positive in action, and will regulate the speed of the engine to a nicety whether the engine is running light or on full load. It consists of two weights straddling the fly-wheel hub and hinged to a collar fastened to the hub. This is an old and thoroughly tried type of governor and never gives any trouble. There is also provision for changing the speed of the engine while running.

WEBSTER-OCILLATING MAGNETO

A Webster Oscillating Magneto, which we can supply on all Jeffrey Engines (see prices), makes the engine exceedingly easy to start, summer or winter; no batteries, coil or switch are required. It makes a big hot spark on the first turn of the fly wheels. WATER, OIL AND DIRT PROOF. Guaranteed to furnish a satisfactory spark as long as the engine lasts.

COMBINATION ANVIL, VISE AND DRILL

$4.45

Made of cast iron and steel, japanned black. This is a thoroughly good serviceable tool, and particularly suited to the home and farm, and small mechanics. Just the tool to have in the garage, nothing on the market to equal it for the price; one of our best sellers and guaranteed to give satisfaction. It can be converted from a vise to a drill instantly and takes the place of several high priced tools. Main body and jaws made of cast iron, sliding draw bar, vise handle and drill mandrel of high carbon steel, cutting off handle of high grade tool steel. Anvil face and jaws are ground, polished and lacquered, all other parts nicely japanned in black. Shipped from factory at Kansas City.

B-2085—Combination Anvil Vise and Drill **$4.45**

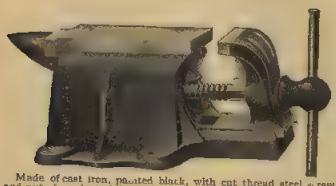
EVERY FARMER SHOULD HAVE ONE

CAST IRON ANVILS

These Anvils are made of a special very tough cast iron or semi steel, painted black. Faces are ground, polished and lacquered and well proportioned, and, while not recommended for regular blacksmith's work, makes a good serviceable anvil for the farm and small machine shop. Shipped from factory in Northern Missouri or Illinois.

B-2086—Weight, 50 lbs. **$3.45**
B-2087—Weight, 70 lbs. **5.20**
B-2088—Weight, 100 lbs. **6.60**

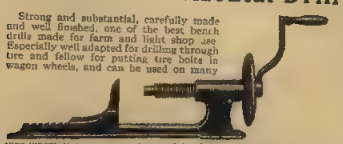
ANVIL AND VISE



Made of cast iron, painted black, with cut thread steel screw and nut, forged steel handle. A splendid seller and big value for the money. While not intended for heavy work, is just the thing for the man who wants to do tinkering and for small machine shops and garages. The anvil face and jaws are polished and lacquered, jaws 3 inches wide, open 5 inches, also provided with special jaws for holding pipe. Weight, 25 lbs. Shipped from factory at Kansas City or Northern Illinois

B-2089—Combination Anvil and Vise **$1.90**

Blacksmith Horizontal Drill

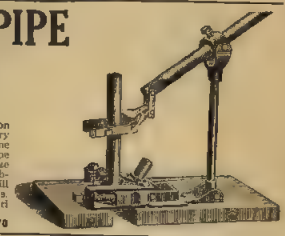


Strong and substantial, carefully made and well finished, one of the best bench drills made for farm and light shop use. Especially well adapted for drilling through tire and fellow for putting tire bolts in wagon wheels, and can be used on many jobs where even an expensive upright drill cannot be used.

Chuck furnished regularly takes standard square shank drills. Can also be furnished to take standard half round when ordered. Length, 20 inches; adjustment, 12 inches; weight, 28 lbs. Shipped from factory at Kansas City or Northern Illinois.

B-2090—Blacksmith's Horizontal Drill .....

BABCOCK PIPE LIFTER



Made of cast iron and steel, mounted on a 2-inch plank, painted black. Very simple and rapid in action, the best machine ever invented for raising or lowering pipe in wells of any depth, will handle any size pipe up to and including 2 inches, substantially made, and with fair usage will last a lifetime. Weight, 45 pounds. Shipped from factory in Northern Missouri or Illinois.

B-2091—Babcock Pipe Lifter **$8.70**

Giant Pipe Holder

Made of cast iron, mounted on 2-inch plank, painted black, adjustable to handle pipe up to and including 2 inches; has a chilled hardened concave pipe jaw, which will hold wet or greasy pipe, yet will not crush or damage it, nothing better for holding pipe when lowering or lifting it out of a well. Length, 2 ft.; width, 8 inches; weight, 30 lbs. Shipped from factory in Northern Missouri or Illinois

B-2092 Giant Pipe Holder **$3.00**

SELF LOCKING PIPE VISE

One of the most useful tools a farmer can buy. It is strongly constructed; the base has lugs on both sides so that the latch may hang on either side; only the highest grade material is used in the construction of the frame. The jaws are of high grade hardened carefully tempered steel; the screw is perfectly constructed; all parts are strongly connected and it can be easily taken apart so any section may be easily replaced.

No stock man, farmer, mechanic, pump dealer, well driller or any one using rods, pipes or pumps can afford to be without this economical durable pipe vise, it will save its cost within a very short time by your being able to do your own repair work. Shipped from Western Illinois factory

B-2093—Pipe Vise, capacity pipe, ⅛ to 2½ in. **$3.10**
B-2094—Pipe Vise, capacity pipe, ⅛ to 3½ in. **4.85**
B-2095—Pipe Vise, capacity pipe, ⅛ to 4½ in.

Specifications and Prices Jeffrey Gasoline Engines

FOR PRICES ON KEROSENE ENGINES SEE FOLLOWING PAGES

$39.50 1½ Horse Power Engine
30 DAYS FREE TRIAL
5 YEAR GUARANTEE

1½ HORSEPOWER JEFFREY ENGINE—Our 1½ horsepower Jeffrey Engines are made exactly like our large engines, with the exception that the head is air cooled. The balance of the cylinder is water cooled. This engine is a handy chore boy and can be used for a large number of small jobs. For running cream separator, churn, washing machine, small corn sheller, small grist mill, millstone, fanning mill, for pumping water and in many other useful ways, as a time and money saver it cannot be equalled. Our 1½ horsepower Jeffrey Engine is sold on our 30 Day Free Trial Plan and is covered by our binding five-year guarantee.

SPECIFICATIONS AND PRICES—BORE 3½ inches. STROKE 4 inches. Speed, 500 revolutions per minute. Diameter Crank Shaft, 1½ inches. Diameter Fly Wheels, 15½ inches. Weight Fly Wheels, 120 pounds. Pulley size 4 inch diameter, 4 inch face. Floor space, 18x35 inches. Weight on Iron Sub-Base, 250 pounds. Weight on Wood Skids, 200 pounds. Furnished on Wood Skids, or on Iron Base. Note prices. Shipped direct to you from factory in Iowa.

B-2209—Jeffrey 1½ H. P. Engine on Wood Skids, with Battery Equipment **$39.50**

B-2210—Extra for engine equipped with Webster Magneto..... **7.95**

For prices on 1½ H.P Engines mounted on hand portable truck, see following pages.

$49.50 2 Horse Power Engine
30 DAYS FREE TRIAL
5 YEAR GUARANTEE

2 HORSEPOWER JEFFREY ENGINE—Our 2 horsepower engine can be used for running light machinery. Any machine that can be turned by hand can be run by the engine. For pumping, it is the ideal engine. It will operate almost any ordinary pump and have enough reserve power for forcing water to any reasonable distance. It will operate a No. 3 centrifugal pump with 10 feet or under, total head. It can be used for light wood sawing with a small saw. Each 2 horsepower Jeffrey Engine is sold on our 30 Day Free Trial Plan and is covered by our binding five-year guarantee.

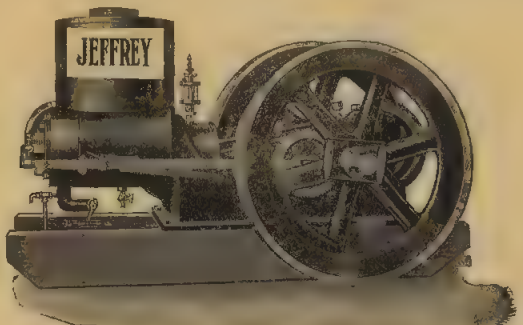
SPECIFICATIONS AND PRICES—BORE 4 inches. Stroke 5 inches. Speed, 450 Revolutions per minute. Diameter Crank Shaft, 1¾ inches. Diameter Fly Wheels, 18 inches. Weight Fly Wheels, 165 pounds. Pulley Size, 4 in. diameter, 4 inch face. Floor Space, 22x42 inches. Weight on Iron Sub Base, 375 pounds. Weight on Wood Skids, 325 pounds. Furnished on Wood Skids, or Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory.

B-2211—Jeffrey 2 H. P. Engine on Wood Skids with Battary Equipment **$49.50**

B-2212—Extra for engine equipped with Webster Magneto **8.75**

B-2213—If engine is wanted on iron base in place of wood skids, add..... **2.30**

WEBSTER MAGNETO'S START YOUR ENGINE UNDER ANY AND ALL CONDITIONS



JEFFREY ENGINES ARE GUARANTEED FOR FIVE YEARS

FURNISHED WITH WOOD SKIDS OR IRON BASE

$67.00 3 Horse Power Engine
30 DAYS FREE TRIAL
5 YEAR GUARANTEE

3 HORSEPOWER JEFFREY ENGINE—This is a very good size to order if you want an engine just a little larger than a 2 horse power and do not want to order a 5 horse power. However, do not make the mistake that so many do and order an engine too small for your needs. It is far better to order an engine larger than you need at the present time as the longer you have an engine, the more work you will find for it to do. Our 3 horsepower engine, as well as all of our engines, is sold on our 30 Day Free Trial Plan and guaranteed for five years. Read guarantee carefully.

SPECIFICATIONS AND PRICES—Bore 4½ inches. Stroke 6 inches. Speed, 425 Revolutions per minute. Diameter Crank Shaft, 1¼ inches. Diameter Fly Wheels, 24 inches. Weight Fly Wheels, 180 pounds. Pulley Size, 8 in. diameter, 5 in. face. Floor Space, 24x48 inches. Weight on Iron Sub-Base, 580 pounds. Weight on Wood Skids, 500 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa.

B-2214—Jeffrey 3 H. P. Engine on Wood Skids with Battery Equipment **$67.00**

B-2215—Jeffrey 3 H. P. Engine on Wood Skids, Webster Magneto..... **75.75**

B-2216—If engine is wanted on Iron Base in place of Wood Skids add **3.50**

For prices on 3 horsepower engines mounted on hand portable trucks, see following pages.

$97.50 5 Horse Power Engine
30 DAYS FREE TRIAL
5 YEAR GUARANTEE

5 HORSEPOWER JEFFREY ENGINE—Our 5 H. P. Jeffrey Engine is a good size for all around light farm work. It will do all the work that can be done by a smaller engine, using only as much fuel as the power used calls for, and it will run small feed grinders, corn shellers, shredders, light ensilage cutters. It will handle a saw up to 28 inches, sawing as fast as the wood can be handled. On a line shaft it will run several small machines at once. Bear in mind when buying an engine that you can do any light work with a large engine, but cannot do a large engine's work with a small engine. Sold on 30 Days Free Trial and with our binding 5 year guarantee.

SPECIFICATIONS AND PRICES—Bore 5 inches. Stroke 9 inches. Speed, 375 Revolutions per minute. Diameter Crank Shaft, 1 13/16 inches. Diameter Fly Wheels, 36 inches. Weight Fly Wheels, 320 pounds. Pulley Size, 10 inch diameter, 6 inch face. Floor Space, 30x60 inches. Weight on Iron Sub-Base, 880 pounds. Weight on Wood Skids, 750 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa

B-2217—Jeffrey 5 H. P. Engine on Wood Skids whit Battery Equipment **$97.50**

B-2218—Jeffrey 5 H. P. Engine on Wood Skids with Webster Magneto **107.75**

B-2219—If engine is wanted on iron base in place of wood skids add **5.75**

For prices on 5 H. P. engines mounted on hand portable, all steel horse portable trucks, or all steel portable saw outfit, see following pages.

FOR PRICES ON JEFFREY THROTTLE GOVERNOR KEROSENE ENGINES SEE FOLLOWING PAGES.

JEFFREY GASOLINE ENGINES

7-Horse Power Engines

$129.95

30 DAYS FREE TRIAL
5 YEAR GUARANTEE

7 HORSE POWER JEFFREY ENGINE—Our 7-horse power Jeffrey Engine is especially desirable for running a feed grinder, irrigation pump, drainage pump, ensilage cutter and elevator, husker, shredder, concrete mixer, hay press, etc. It has plenty of power and is very economical in the use of fuel. This engine is made very heavy and will stand up and give the best of service. Shipped on our 30 Day Free Trial Plan and our binding five-year guarantee.

SPECIFICATIONS AND PRICES—Bore 6 inches. Stroke 10 inches. Speed, 350 Revolutions per minute. Diameter Crank Shaft, 2 inches. Diameter Fly Wheels, 30 inches Weight Fly Wheels, 450 pounds. Pulley Size, 14 in. diameter, 6 inch face. Floor Space, 32x66 inches. Weight on Iron Sub-Base, 1,225. Weight on Wood Skids, 1,100 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa.

B-2220—Jeffrey 7 H. P. Engine on Wood Skids with Battery Equipment $129.95

B-2221—Jeffrey 7 H. P. Engine on Wood Skids with Webster Magneto 139.95

B-2222—If you desire engine on iron base in [illegible] of wood skids, add 7.15

For prices on 7 H. P. engines mounted on all steel horse portable trucks, or an all steel portable saw outfit, see following pages

10-Horse Power Engines

$212.50

30 DAYS FREE TRIAL
5 YEAR GUARANTEE

10 HORSE POWER JEFFREY ENGINE—Our 10 horse power Jeffrey is a powerful, well built engine and is suitable for running large ensilage cutters and blowers, heavy feed grinders, husker and shredders, hay presses, irrigation pumps, etc. All of our engines are sold on a very close margin of profit and we know we can easily save you from 10 to 20 per cent. You run no risk in buying this engine, as it is sold on our 30 Day Free Trial Plan with a binding five-year guarantee.

SPECIFICATIONS AND PRICES—Bore 6½ inches. Stroke 12 inches. Speed, 325 revolutions per minute. Diameter Crank Shaft, 2¾ inches. Diameter Fly Wheels, 36 inches. Weight Fly Wheels, 630 pounds. Pulley Size, 18 in. diameter, 10 inch face. Floor Space, 37x89 inches. Weight on Iron Sub-Base, 1,725 pounds. Weight on Wood Skids, 1,550 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa.

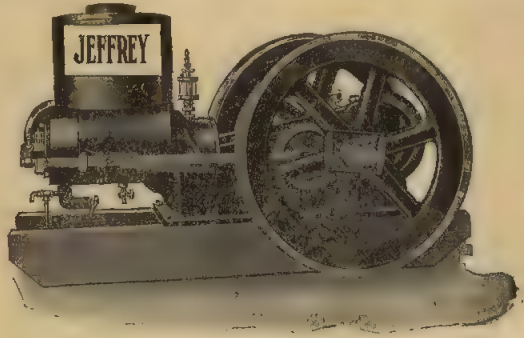
B-2223—Jeffrey 10 H. P. Engine on Wood Skids with Battery Equipment ..... 212.

B-2224—Jeffrey H. P. Engine on Wood Skids with Webster Magneto 223 00

B-2225—If engine is desired on iron base in place of wood skids add 8.45

For prices on 7 H. P. engines mounted on all steel horse portable trucks, or an all steel portable saw outfit, see following pages:

JEFFREY ENGINES HAVE THE BORE STROKE AND POWER THEREFORE ARE DURABLE AND ECONOMICAL ON FUEL AND POWER



MADE OF HIGHEST QUALITY MATERIALS PERFECT WORKMANSHIP FULL POWER FULL WEIGHT SMOOTH RUNNING LONG LIFE FULLY GUARANTEED

13-Horse Power Engines

$278.00

30 DAYS FREE TRIAL
5 YEAR GUARANTEE

13 HORSE POWER JEFFREY ENGINE—Our 13 horse power Jeffrey engine is built extra heavy and extra strong, will run a 16 or 20 inch ensilage cutter with blower, a 20 or 24 inch French burr mill, a 16x18 or 17x22 inch hay baler, six hole corn sheller, a 36 or 38 inch cut off saw and threshing machine with 22x36 or 16x30 inch cylinders. Engines are shipped on our 30 Day Free Trial offer and with a binding five-year guarantee.

SPECIFICATIONS AND PRICES—Bore 7½ inches. Stroke 14 in. Speed, 275 Revolutions per minute. Diameter Crank Shaft, 2¾ inches. Diameter Fly Wheels, 42 inches. Weight Fly Wheels, 770. Pulley Size, 16 inch diameter, 12 inch face. Floor space, 42x90 inches. Weight on Iron Sub-Base, 2,460 pounds. Weight on Wood Skids, 2,200 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa.

B-2226—Jeffrey [illegible] H. P. Engine on Wood Skids with Battery Equipment $278.00

B-2227—Jeffrey 13 H. P. Engine on Wood Skids with Webster Magneto 290.00

B-2228—If engine is desired on iron base in place of wood skids add 12.00

For prices on 13 H. P. engines mounted on all steel horse portable trucks, or for an all steel portable saw outfit see following pages:

15-Horse Power Engines

$360.00

30 DAYS FREE TRIAL
5 YEAR GUARANTEE

15 HORSE POWER JEFFREY ENGINE—These engines are built for heavy work, such as running threshing machines, pumping plants, filling big silos, clover hullers, in fact, for any kind of work where lots of power is required. They are especially powerful, yet very economical in the use of fuel. Sold on our 30 Day Free Trial Plan and with our binding 5 year guarantee.

SPECIFICATIONS AND PRICES—Bore 7¾ inches. Stroke 15 inches. Speed, 275 Revolutions per minute. Diameter Crank Shaft, 2¾ inches. Diameter Fly Wheels, 46 inches. Weight Fly Wheels, 940 pounds. Pulley Size, 18 inch diameter, 12 inch face. Floor Space, 42x95 inches. Weight on Iron Sub Base, 2,700 pounds. Weight on Wood Skids, 2,450 pounds. Furnished on Wood Skids or on Iron Base and with or without Webster Magneto. Note prices. Shipped direct to you from factory in Iowa.

B-2229—Jeffrey 15 H. P. Engine on Wood Skids with Battery Equipment ..... [illegible]

B-2230—Jeffrey 15 H. P. Engine on Wood Skids with Webster Magneto $373.00

B-2231—If engine is desired on iron base in place of wood skids add 13.50

For prices on H. P. engines mounted on all steel horse portable trucks, or for an all steel portable saw outfit, see following pages:

FOR PRICES ON JEFFREY THROTTLE GOVERNOR KEROSENE ENGINES, SEE FOLLOWING PAGES

ATHLETIC SUPPORTERS

No. 200

No. 204

Each

No. 200—3 in. Wide Elastic Waists, with 2 in. Wide Leg Bands and Jersey Pouch; Excellent for Swimmers $0 75

No. 204—Flesh Colored Elastic Pouch and Leg Straps. Has Sateen-pieced Front and 3 in. Wide Elastic Waistband 85

No. 208

No. 218

Each

No. 208—Elastic Waist with Pouch of Linen Mesh, with Elastic along the Edge. Extremely Durable and Satisfactory in every respect $1 00

No. 218—Made on the Pastor Model; Heavy 6 in. Navy Elastic Waist Band, with Jersey Pouch, A Strong, Firm Supporter 1.50

ANKLE SUPPORTS

For Athletes; Will Relieve Pain, Strengthen and Prevent Turning of the Ankle.

Per Dozen

No. 3—Soft Pliable Tan Colored Leather, Lace Front, Hockey Pattern $6.00

WRIST SUPPORTS

Invaluable to Base Ball, Tennis, Cricket Players, or When Any Strain is on the Wrist

Per Dozen

No. 2—Soft Pliable Calf Skin; One Buckle 2 in. Wide $3.00

BELTS

Each

No. 230—Special Base Ball Belt; 2½ in. Wide; Leather Lined and Mounted, Large Nickel Buckle $1.50

Each

No. 206—Gymnasium Web Belt; 2½ in. Wide, Leather Mounted, 2 Leather Covered Buckles $1.00

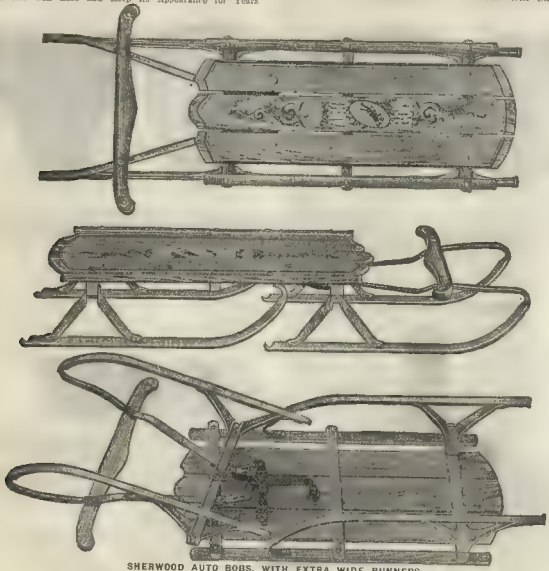
Each

No. 700—Russet Leather, 1¼ in. Wide; Nickel Buckle, 1 Loop $0.75

SLEDS

SHERWOOD AUTO BOBS

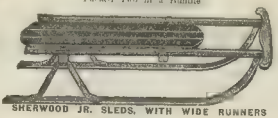
All Metal is of the Best Grade—the Wood is Selected Well Seasoned Straight Grain Ash, Nicely Painted, Decorated and Finished with the Most Durable Varnish. No Expense has been spared to make it a Perfect Bob. One that Will Stand Hard Knocks, and will Last and Keep its Appearance for Years.



SHERWOOD AUTO BOBS, WITH EXTRA WIDE RUNNERS

Nos.			
Length, In	36	42	48	54
Height, In	36	42	48	54
Width, In	6	6¾	6¾	6¾
Weight Each, Lbs	12	13	14¾	11¾
Each	8	10¼	15	17
	$2.20	2.90	3.80	4.60

Packed Two in a Bundle



SHERWOOD JR. SLEDS, WITH WIDE RUNNERS

Sherwood Jr.—Length 28 in., Height 6 in., Width 11 in., Weight 5 Lbs. Each $1 90
Packed Two in a Bundle

DUCK AND GOOSE CALLS

No. 50—Mascot Duck Call. May be tuned to suit the user. Per dozen, $12.00

No. 55—Reynolds Double Wood Duck Call.....Per dozen, $9.00
No. 60—Reynolds Double Hard Rubber Duck Call. .....Per dozen, $12.00
One-half dozen in a box.

No. 80—Fuller's Goose Call.....Per dozen, $24.00
One-half dozen in a box.

RECOIL PADS

RED RUBBER

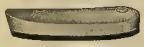
No. 25—10, 12, 16 and 20 gauge..... Per dozen, $18.00

RECOIL PADS

RUSSET LEATHER

No. 500—To lace .....Per dozen, $20.00

HARD RUBBER BACK



No. HRB—Soft cushion. Screws to stock and can be buffed to fit any gun. Size, 5½ in. long, 1¾ in. wide....Dozen, $42.00

SILVER PATTERN

Air Cushion—Soft red rubber cushion and hard black rubber base plate. Hollow cushion, chamber extending from toe to heel. Thickness, ⅞ in.....Per dozen, $36.00

SPONGE RUBBER

These are the softest pads on the market. Made of high-grade rubber in two and three ply. At the base there is a strip of red sheet rubber, which is tacked and cemented to the stock and the sponge rubber in turn is cemented to the red strip. Between the layers of sponge there are strips of red gasket rubber. Special tacks and instructions for attaching furnished with each pad.

2 Ply—1 in. thick.....Per dozen, $24.00
3 Ply—1½ in. thick..... " " 30.00

ANTI-FLINCH

Made of best grade red rubber, vulcanized on black hard rubber base plate. Oblong holes through soft rubber, slanting at an angle of 45 degrees in line with stock, eliminates upward whip of muzzle and takes up the recoil.

Anti-Flinch—1 in. thick. .....Per dozen, $39.00

TARGETS

WHITE FLYER OR BLUE ROCK

White Flyer or Blue Rock—500 in a barrel. Weight per barrel, 140 lbs.. ..... Per 1000, $10.00

TARGET TRAPS

WESTERN AUTOMATIC

Western Automatic—Simple, durable and easy of operation. Each, $50.00
Double Attachment—Extra " 20.00

DECOYS

JOHNSON'S FOLDING PAPER

Johnson's..... Per dozen, $6.00
Packed one dozen in a heavy manila envelope. Assorted half male and half female. Weight per dozen complete, 4½ lbs.

The Decoy is printed on a heavy grade of jute cardboard, a very tough stock put through a water-proofing process which makes it impossible to absorb moisture. This is made to float by inserting a quarter-inch spruce board, which is dyed water color and is also water-proof. The Decoy is made to retain its upright position in the water by a pendulum weight weighing about an ounce which is attached to the float by means of a 10 in. shiff wire. A string and anchor is attached to one float in each carton as a suggestion.

DECOYS

WOOD

Mallard, Teal, Widgeon and Canvas-Back

No. 1—White cedar, kiln dried, painted eye....Per dozen, $12.00
No. 1-C—Challenge. Solid, white cedar, kiln dried, glass eye, perfect coloring.....Per dozen, $20.00
No. 1-P—Premier. White cedar, flat bottom, hollow, perfect coloring, glass eye, finest wood decoys made....Dozen, $30.00
No. 1-PB Premier. Brant; otherwise same as No 1-P. ....Per dozen, $40.00

WHISTLES AND CALLS

ECHO CALL

No. 120..... Per dozen, $3.00
One dozen in a box

No. 14—Horn. Medium size... Per dozen, $7.00

No. 112—Universal, with chain. Small size... Per dozen, $3.00
No. 114—Universal, with chain. Large size.... " " 4.50
One dozen in a box.

DUCK CALLS

No 72-N Duck Call. Cocobolo, with nickel up.. Dozen, $3 75

No. 70—Allen's Duck Call. Wood shell, metal case. .Per dozen, $9.00
One-half dozen in a box.

AUTOMOBILE ACCESSORIES

SHIPPED FROM MINNEAPOLIS OR KANSAS CITY

SINGLE AND DOUBLE BULB ELECTRIC HEADLIGHTS

Those desiring large, powerful and attractive headlights will find that a pair of these lamps more than fulfill their wants. Shell is of heavy gauge material, finished in baked black enamel, provided with hingeless bayonet type doors, nickel plated rims. Highly polished and silvered parabolic spun reflectors. They also have the outside adjustable focusing device. Single bulb type supplied with 15 c. p. bulb for headlight purposes only. The double bulb type had a 4 c. p. lamp for use when powerful light is not required. Bulbs furnished in voltages as per your specifications. Shipping weight, per pair, 10 lbs.

SINGLE BULB

No.	Model	Diam. Face	Finish	Prop Center		Price
A-705	183	9¼″	All Black	7¼″	Per pair	$5.90
A-706	183	9¼″	Black-Nickel	7¼″	Per pair	5.90
A-707	184	10¼″	All Black	8¼″	Per pair	6.90
A-708	184	10¼″	Black-Nickel	8¼″	Per pair	6.90
A-709	185	11¼″	All Black	9¼″	Per pair	6.90
A-710	185	11¼″	Black-Nickel	9¼″	Per pair	7.90

DOUBLE BULB

A-711	183	9¼″	All Black	7¼″	Per pair	$6.90
A-712	183	9¼″	Black-Nickel	7¼″	Per pair	6.90
A-713	184	10¼″	All Black	8¼″	Per pair	7.90
A-714	184	10¼″	Black-Nickel	8¼″	Per pair	7.90
A-715	185	11¼″	All Black	9¼″	Per pair	8.95
A-716	185	11¼″	Black-Nickel	9¼″	Per pair	8.95

COMBINATION OIL AND ELECTRIC SIDE LAMPS

Attractive high grade side lamps, small and light weight, but strongly built. Suitable for any size car. Guaranteed not to blow out or jar out. Shipping weight 7 lbs. per pair

Model 52 for Oil Only

A-724—All black finish, per pair **$3.87**

Model 53 Combination Oil and Electric

Fitted with 6 volt 4 c. p. Tungsten double wire bulb unless otherwise ordered.

A-725—All black finish, per pair **$4.77**

COMBINATION OIL AND ELECTRIC TAIL LAMP

Size 9 inches high 4½ inches in diameter. Safety catch door Down draft burner; 3½ inch white and 3 inch ruby lens. This is an exceptionally good lamp.

Model 50 for Oil only

A-717—All black finish, each **$2.58**

Model 51 Combination Oil and Electric

Fitted with 6 volt, 4 c. p. Tungsten double wire bulb unless otherwise ordered.

A-718—All Black Finish, each **$3.20**

ROLL DOOR GAS HEADLIGHT

The Roll Door Gas Headlight is the very latest in lamp manufacture. The side sockets are fastened to the side with invisible rivets so as to support the lamp firmly. It is fitted with the very best Mangin mirror and the extremely short focus gives a very powerful light. Finished in black enamel and the door, hood and trimmings are of polished nickel. Average shipping weight 6 lbs.

No.	Diam. Door	Prop Center	Price
A-721	10¼″	8¼″	$8.25
A-722	11¼″	8¼″	9.65

ELECTRIC SIDE LAMP

Made of very heavy material. Lamp door held in position by patented 3-spring joint fasteners. Furnished with Ediswan socket and 6 volt lamp. Furnished in black and nickel only

Size of face 5¼ inches. Shipping weight per pair 4 lbs.

A-726—Side Lamp **$3.47**

ELECTRIC TAIL LAMP

Small, neat design. Finished in black enamel with 3¼ inch ruby lens, complete with bulb. Has universal bracket. Finished in black. Shipping weight 20 ounces.

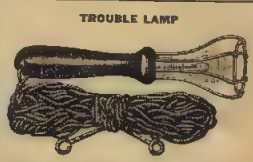
A-719—Tail Lamp **79c**

ELECTRIC SPOTLIGHT WITH MIRROR

A high grade lamp with 21 c. p. nitrogen bulb, attached to windshield by bracket containing universal swivel which permits light to be turned instantly in any direction. Has self-contained switch, and light may be turned on or off instantly. Diameter of door 6½ inches. Shipping weight, 5 lbs.

A-723—Electric Spotlight **$3.69**

TROUBLE LAMP



Furnished with imitation ebony handle, 6 volt 4 c. p. bulb, protected by heavy wire guard, and ten feet of flexible lamp cord with standard copper terminals. May be attached to any storage battery or four dry cells.

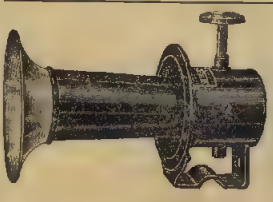
A-727—Trouble Lamp **72c**

DASH LAMP

This lamp is superior in design, quality and workmanship to any lamp on the market. It has a straight shank and measures 2½ inches from the face of the flange to the center of the opening in the shade. A feature that makes this lamp especially desirable is the self-contained switch which eliminates the necessity of purchasing a switch and does away with the attendant trouble of wiring. Lamp is finely nickel plated and furnished with a 2 c. p. bulb in any standard voltage

A-720—Dash Lamp **$ .93**

JUBILEE HAND HORN



This is a good substantial built horn, has a heavy tone, plenty of volume, good bearings and well put together. Will outlast many of the higher priced horns. Furnished in black and nickel.

A-728—Horn **$3.10**

If you are in need of Automobile Supplies not quoted in our Catalogue, write and tell us what you need and will quote you prices.

OILS AND GREASES
See Page 34

WAGONS WOOD & STEEL

A variety of wood and steel wagons that emphasizes the efficiency and power of our buying organization. Because we are able to buy in such quantities and because of contracts placed long ago we are enabled to quote these extremely low prices

JUNIOR SIZE WOOD WAGONS

Hardwood body and gearing, natural varnish finish, fancy solid turned wood wheels, red trim on body and wheels

Bo-Peep ... 16x9 ½ in., wheels 4 in. ... Each $1.75
(Total $ ...)

"Humpty Dumpty"—Body 21x11, wheels 6 in. F77—2 in crate ... Each $2.00
(Total $ ...)

"Junior Coaster"—Body 24x11, wheels 7 in. F78—2 in crate ... Each $2.35
(Total $ ...)

WOOD BODY EXPRESS WAGON

F47—12x7 varnished body, long handle stenciled, 4½ in. wheels, steel tires ... doz. ... Doz. $4.25

WOOD CARTS—Long Handles

F40—Box, painted red and stenciled box cart body, ... wheels ... doz. in crate ... lbs ... Each $2.10
(Total $ ...)

F39—13x7 stained hay cart body, 8 slat, open sides, tin capped wheels ... doz. in crate ... lbs ... Each $2.25
(Total $ ...)

TOY TRAILER CAR

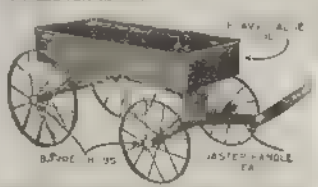
F3734—Length 17 in., ht. 6 in., ... wheels ... wagon ... Doz. $5.90

"IRONCLAD" STEEL BODY EXPRESS BODY

F83—Body ... gauge steel, ... to wood ... and gears ... wheels, ... Doz. $14.90

"VICTORY" STEEL COASTER WAGON

... for selling steel ... has ... gear, ... dipped ... view and satisfaction



F135—Steel body, 17x... green enameled, ... sides, red steel ... wheels, ... below, ... axles, ... master with wood ... and ... for ... handle, heavy steel axles, ... wood ... body, ... gray ... and ... gear. ... lbs. ... $3.25

HANDY UTILITY CAR

Will haul an unusually big and heavy load with very little effort

F908—Box 25x16 in., depth 12 in., extra strong, 14 in. all steel wheels, steel rest on handle holds cart level when standing, handle in two parts for compact packing. 1 in crate, 45 lbs ... Each, $7.00

SLED RUNNERS FOR WAGONS

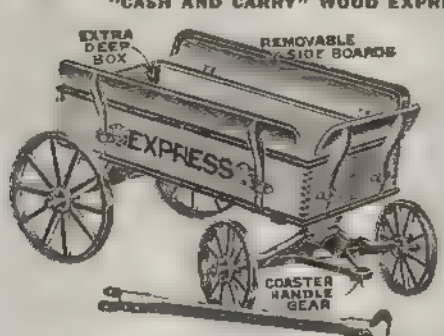
Transforms a wagon into an easy running "Bob," for pulling loads or coasting.

F1496—Length 23 in., made from tough stock, red with black striping, each bolted for use with rope, round spring steel shoes, fits any wagon with axles not over ¾ in. diameter. Bolt holes not less than ... in. larger hub width adjustable with washers. 1 set of 4 in pkg ... Set, $2.00

"SHOOT THE CHUTES"

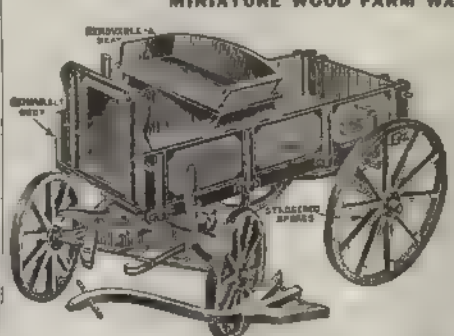
F838—Length 14 ft., width 11 in., ht. frame 16 in. Parts jointed with strong steel hinges, so as to fold to small space. Car 10x24 in., nicely ornamented, all parts painted in bright colors. 1 in crate ... Each, $5.50

"CASH AND CARRY" WOOD EXPRESS WAGON



F75—Body 17x34, depth 6½ in., varnished natural wood, red trim, black name stencil, removable side boards and dash, wheels ... and 14 in., wheel spacers ... flat welded ... shrunk on, ... and steel axles, rod for hand gear box, and wheels painted bright red with black striping, ... total ... good as any ... wagon ... in crate, 50 lbs ... Each $7.25

MINIATURE WOOD FARM WAGON



Goat or Dog Shaft

F70—For ... farm wagon ... 17, painted ... Black ... ed. ... pkg ... lbs ... Each, $1.00

F87—Body 18x36 in., hardwood frame, seat and dashboard, removable ornamented sides and ends, wheels 14 and 20 in., heavy welded tires, malleable iron hub caps and handle, strongly ... and beared, ... in. round steel axles, heavy handle ... in crate, 67 lbs ... Each $10.25

TRICYCLES STEEL AND RUBBER TIRES

You will find it exceedingly difficult to equal these values elsewhere. The variety we offer is large enough to meet the demands of any class of trade. First-class workmanship and materials predominate from the lowest to the highest priced items. You will find our prices right.

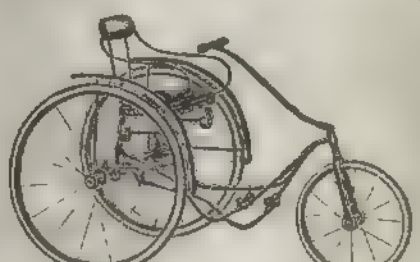
"CLIPPER" TRICYCLES

Leatherette upholstered ... enameled frame, ... gear, ... new suspension springs, ... Pressed steel ... bar, ... Full ... steel ... bar, ... Heavy steel tires ... in wood ... Each $8.75

... in rubber tires, ... Each $9.75

... in rubber tires, 30 and ... Each $11.75

... in rubber tires, ... and 14 in. wheels, ... lbs. ... Each $15.00

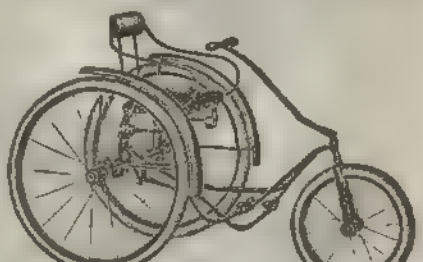


"Clipper Special"—Baked carmine enamel frame and wheels, ... bronze ... head lamp, ... adjustable seat, full ... upholstered in leatherette, suspension springs, ... nickel steering handle, leather wound grips.

F182—... in. rubber tires, 18 and 10 in. wheels, 2 to 5 yrs., ... lbs. 1 in crate ... Each, $12.50

F184—4½ in. rubber tires, 30 and 12 in. wheels, 3 to 8 yrs., 40 lbs. 1 in crate ... Each, $14.75

HIGH GRADE BALL-BEARING TRICYCLES



Maroon ... enameled frame, gold bronze striped fenders, Ball-Bearing throughout, suspension spring seats, nickel plated bent steering handles, leather wound grips

F190—... in. rubber tires, 18 and 10 in. wheels, ... lbs., 40 lbs. 1 in crate ... Each $13.75

F191—... in. rubber tires, wheels 20 ... 40 lbs. 1 in crate ... Each, $17.50

F192—... in. rubber tires, 28 and 14 in. wheels, ... lbs., 60 lbs. 1 in crate ... Each $20.00

VELOCIPEDES

A representative showing of high grade velocipedes. We show only those numbers that are in popular demand and require no effort to sell. **The prices we quote allow you greater** margins of profit than you can secure elsewhere. You can't go wrong in sending us your order for your holiday needs. Compare the prices.

"CLIPPER" VELOCIPEDES

Distributed Exclusively by Butler Brothers

STEEL TIRES—Adjustable heavy fiber seat on patented spring, red enameled steel wheels, baked black enameled frame and brass ferrule grips, 1 pc. fork with adjustable catch doing away with screws and bolts for setting up.

	Wheels	Size	Crate	Lbs	Each
F153	14 in.	Small	3	40	$2.35
F154	14 in.	5 to 7 yrs.	3	44	2.85
F155	14 in.	7 to 9 yrs.	3	52	3.35
F156	16 in.	7 to 11	3	60	3.85

F157—Asst. contains 1 only F153, F154 and 1 only F155. Asstd. 3 in crate. 156 lbs. Asst. $12.50

RUBBER TIRES—Adjustable heavy fiber seat on patented spring, red enameled steel wheels, baked black enameled frame and brass ferrule grips, 1 pc. fork with adjustable catch, no screws and bolts for setting up.

¾ In. Rubber Tires

F167—Mfrs. OR Wheels, 14 and 10 in. Size 1 Small children. 3 in crate 18 lbs. Each, $3.85

F168—Mfrs. 1R Wheels, 16 and 12 in. Size 1 to 7 yrs. 3 in crate, 17 lbs. Each $4.35

Regular In Front Rubber Tires

F161—Mfrs. 2R Wheels 26 and 14 in. Size 7 to 11 yrs. 3 in crate, 21 lbs. Each $4.90

F165—Mfrs. 1R Wheels 24 and 16 in. Size 7 to 11 yrs. 2 in crate, 25 lbs. Each, $5.50

F166—Asst. contains 1 only F163, 1 only F164 and 1 only F165. Asstd. 3 in crate. Asst. $17.50

CLIPPER "SPECIAL," RUBBER TIRES—Red enameled steel frame and wheels extra strong, 1 pc. sprocket, 1 red leather bicycle saddle with nickel plated double spring, 1 pc. fork, 1 pc. steel handle bar with leather wound grips.

¾ in. Rubber Tires

	Wheels	Size	In Crate	Lbs	Each
F168	14 and 10 in.	3 to 5 yrs.	1	27	$7.75
F169	20 in.	5 to 6	1	25	8.50
F170	24 in.	7 to 11	1	31	9.00

WE ARE HEADQUARTERS FOR WHEEL TOYS

TRIANGLE TRUSS FRAME PLAIN-BEARING VELOCIPEDES

Extra well made and finished triangle truss frame gives great strength to backbone and rear axle also acts as mounting step. Triangle truss frame red enameled with gold striping, wide axle, bicycle head, padded leather bicycle saddle, double coil nickel plated springs, nickel plated adjustable handle bars, leather grips, ¾ in. rubber tires, hub caps.

F140—	Wheels	16 and 12 in.	reach adjustable	17½ to 20½ in.	1 in crate	26 lbs.	Each,	$8.25
F141—	"	20 " 14 "	"	"	19½ " 23½ "	1 "	"	28 "	"	$9.10
F142—	"	24 " 16 "	"	"	21½ " 24½ "	1 "	"	30 "	"	$10.25

SQUARE TRUSS FRAME BALL-BEARING VELOCIPEDES

Superior construction and finish, heavy marine frame, gold striped mud guards on front wheel, ball-bearing front wheel and pedals, roller-bearing rear wheels, ¾ in. rubber tires, large hub caps, new style square truss frame, wide axle, bicycle head, nickel plated adjustable bars with red leather grips, padded bicycle saddle, nickel plated ball, double coil nickel plated spring, nickel plated drop forged crank, rat trap, ball-bearing pedals.

F175—	Wheels	16 and 12 in.	reach adjustable	17½ to 20½ in.	1 in crate	30 lbs.	Each,	$13.25
F176—	"	20 " 14 "	"	"	19½ " 22½ "	1 "	"	35 "	"	14.50
F177—	"	24 " 16 "	"	"	21½ " 24½ "	1 "	"	40 "	"	15.50

JUSTRITE MINERS LAMPS

CAP LAMP

Polished brass.

Lever feed. 16.7 candle power. 2¼-inch reflector. Equipped with No. 66 lava tips. Lighter attachment.

No. 85, with No. 77 carbide can.
Per dozen $19.00

No. 57, with No. 68 extra bottom.
Per dozen $20.00

No. 407, lamp only $18.00

Burns 4½ hours

LIBERTY FEED WITH DOUBLE SEAMED BOTTOM

Polished brass. Liberty valve stem feed. Designed to give a liberal flow of water through inside of valve stem. 16.7 candle power, 2¼-inch reflector. Equipped with No. 66 lava tips. Lighter attachment.

No. 907—

Lamps only.....Per doz $21.00

Burns 4½ hours.

HALF SHIFT

Polished brass

Lever feed, 18 candle power. 2⅝-in reflector. Equipped with No. 28 tips and No. 35 candlestick. Lighter attachment.

No. 108
With No. 76 carbide can.....Per dozen $25 00
No. 101
Lamp only .....Per dozen $27.00

Burns 4½ hours.

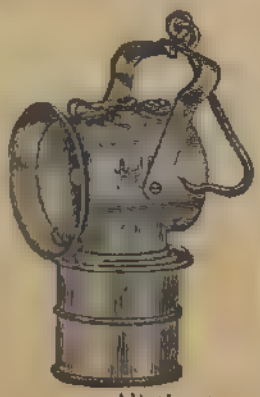
ANACONDA SPECIAL

Lever feed. 18 candle power. 3-inch reflector. Equipped with bail and hook and No. 191 burner with No. 28 jewel tips. Lighter attachment.

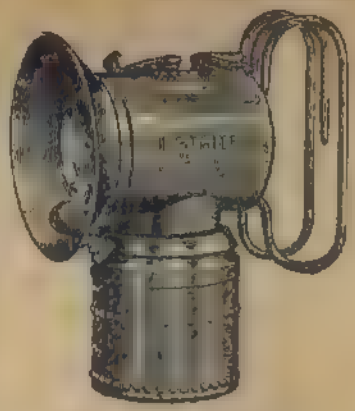
No. 88—Polished brass.

Per dozen $45.00

Burns 5 hours.



SUPERINTENDENTS HAND LAMPS



Folding Handle and Hook

Lever feed. 18 Candle power. Equipped with No. 28 tips. Lighter attachment.

No. 95, nickel plated with 77 carbide can and 3-inch reflector, ...
Per dozen $36.00

Burns 4 hours

Folding Handle and Hook

Nickel plated. Adjustable reflector hood. Extra carbide container. Folding handles.

Lever feed. Equipped with No. 28 tips. Lighter attachment.

No. 100
Height, inch 4
Width, inch 2
Weight per dozen, lbs 9
Per dozen $18.00

Burns 3½ to 4 hours.

LITTLE GIANT

Spiral Feed 18 Candle Power

Made of ⅛-inch seamless aluminum in one size only—6-hour capacity. Reflector is part of the lamp, can not be broken off. Equipped with steel bail and hook and has large screw threads for fastening the top and bottom together. It is wonderfully simple, sturdily constructed and easy to operate. Has only a few extra parts which makes the maintenance cost much less than other large lamps.

No. 110—Seamless aluminum
Per dozen $32.00

Burns 6 hours.

CARBIDE LANTERN

Made of brass throughout, nickel plated and polished. Two-inch polished nickel silver removable reflector, round, airtight metal carbide container holds nine ounces. Gives twenty candle power light. Burns five to six hours. Suitable for mine superintendents, inspectors, mining engineers, watchmen, campers and sportsmen. Packed in strong round metal case.

No. 10
Height, inch 9½
Net weight each, lbs..... 2
Each $7.00
No. 70—Globes to fit No 10 lanterns..Each .40
Bails to fit No 10 lanterns... " 25
Carbide tanks to fit No. 10 lanterns.... " 1.50

All above, one in paper carton.

JUSTRITE MINERS LAMPS

UNCLE SAM

Seamless aluminum. Spiral feed. Detachable reflector. Equipped with No. 354 tips.

Nos.	306	308
Capacity, hours	6	8
Per dozen	$80.00	85.00

LAMP OUTFITS

NO. 2

Contents: 6 dozen rubber gaskets, 3 dozen burner tips, 1 dozen felt holders, 3 dozen pieces felt packing, 1 dozen cleaning wires, ⅛ dozen valve stems.

No.	2
Size of box, inch	14½x10
Weight of box, lbs	1¼
Per box	$8.00

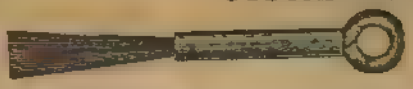
NO. 3

100 only No.	60 Gaskets	12 only No.	177 Sparkers
100 only No.	62 Felts	72 only No.	16 Wires
12 only No.	64 Felts	9 only No.	78 Valve Stems
144 only No.	66 Tips	12 only No.	173 Springs
100 only No.	28 Tips	12 only No.	174 Screw Caps
24 only No.	74 Tip Cleaners	12 only No.	176 Fork and Nuts
24 only No.	22 Tip Cleaners	12 only No.	181 Water Caps
24 only No.	37 Tip Cleaners	12 only No.	182 Hexagon Nuts
72 only No.	143 Reamers	4 only No.	113 Valve Stems

Per Outfit ..... **Each $36.00**

Metal case, white enamel finish, glass cover, sliding drawer opening from back.

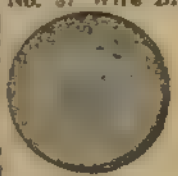
ACCESSORIES AND REPAIR PARTS FOR JUSTRITE LAMPS



No. 22 Tip Cleaner.

No. 24 Tip

No. 37 Wire Brush Tip Cleaner.



No. 62 Felt.

No. 64 Felt Holder.

No. 60 Gasket.

		Per Dozen
16	Cleaning Wire	$0 40
22	Wire Brush Tip Cleaner	.90
24	Aluminum Tips	4 50
25	3-inch Aluminum Reflectors	4.50
26	Brass and Lava Burner Tips	.80
35	Candlesticks	4.50
37	Wire Brush Tip Cleaner	1.60
60	Rubber Gaskets	.40
62	Felt Packing	.40
64	B Felt Holder	.60
66	Lava Tips	.40
67	Lava Tips	.60
68	Brass Bottoms (Small)	4.00
69	Brass Bottoms	4.50
70	Globes—No. 10 Lantern	4.00
76	Carbide Cans	1.66
77	Carbide Cans	1.70
78	Valve Stems	4 50
172	Flints	.80
173	Springs	.40
174	Caps	.80
177	Lighter, complete	1.50
182	Nuts	.40
316	Gaskets	1.60
318	Gaskets	2.10
334	Tip Protector	4.00
336	Screens	2.50
338	Screens	3.60
344	Screens	4.00
354	Tip	3.00
		Each
366	Carbide Tank	$3.50
368	Carbide Tank	3.50

MINERS SUPPLIES

CARBIDE

Packed in Gray Cans with Blue Bands Capacity 2 lbs.

For use in Justrite and similar make lamps or lanterns.

2-lb can. Packed 24 in case..... Each $0.30
10-lb can. Packed 6 in case..... " .60
*25-lb drum. Packed 4 drums in case. Case $2 50
*100-lb drum. Packed 1 in case..... " 7.50

*For factory warehouse shipment only in case lots.

KALAMAZOO STEERING SLEDS

The Kalamazoo will Steer Perfectly at a Greater Rate of Speed, Further to Either Side and with Less Exertion than Any Other Sled.

Runners are Stretch High Carbon Spring Steel Carefully Formed to Shape without destroying the carbon, which gives them greater flexibilty; Runners are Turned up at the toe, to permit of the sled Running Backwards; Knees are Pressed Steel, Extra Heavy. Woodwork is Carefully Selected, and the Entire Sled put together with Rivets and Screws; The Decorations are Unique, Tasty and Perfectly Executed.

Four Knees

Per Dozen

No. 00—32 in. Long, 11½ in. Wide, 6 in. High $24 00
Weight, Each, About 7½ Lbs.

Four Knees

Per Dozen

No. 01—36 in. Long, 12½ in. Wide, 6 in. High $27 50
Weight, Each, About 8½ Lbs.

Four Knees

Per Dozen

No. 02—40 in. Long, 13½ in. Wide, 6 in. High $32 00
Weight, Each, About 9¼ Lbs.

Four Knees

Per Dozen

No. 03—45 in. Long, 14½ in. Wide, 6 in. High $38 00
Weight, Each, About 10¾ Lbs.

Six Knees

Per Dozen

No. 03X 50 in. Long, 13¼ in. Wide, 6¼ in. High..... ..... $45 00
Weight, Each, About 12½ Lbs.

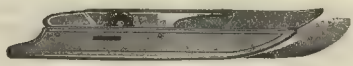
KALAMAZOO RACER
Six Knees

Per Dozen

No. 06—56 in. Long, 14½ in. Wide, 6 in. High; Weight, Each, About 13½ Lbs $53.00

All Above, Two in a Bundle

WOOD COASTERS



Best Michigan Hardwood, Handsomely Finished, Very Attractive

FLAT SHOES
Two Hand Holes

Per Dozen

No. 1—Length, 30 in ; Width, 10 in ; Top Neatly Ornamented with Animals and Scrolls..... $6.25
Weight, per Dozen, 53 Lbs.

ROUND SPRING SHOES
Two Hand Holes

Per Dozen

No. 2—Length, 30 in ; Width, 10 in ; Top Neatly Ornamented with Animals and Scrolls..... $8.75
Weight, per Dozen, 60 Lbs.

OVAL SHOES
Four Hand Holes

Per Dozen

No. 7—Length, 36 in.; Width, 11 in.; Top Neatly Ornamented with Animals and Scrolls.....$8.00
Weight, per Dozen, 78 Lbs.

Packed, One-half Dozen in a Crate

Best Michigan Hardwood, Free from Defects and Perfectly Machined; Handsomely Painted and Decorated

ROUND SPRING SHOES
Four Hand Holes

Per Dozen

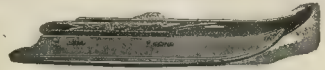
No. 10—Length, 36 in ; Width, 11 in ; Gear Finished on the Wood; Top Painted and Decorated.....$9.00
Weight, per Dozen, 85 Lbs.

ROUND SPRING SHOES
Four Hand Holes

Per Dozen

No. 12—Length, 42 in.; Width, 12 in ; Gear Finished on the Wood; Top Painted and Decorated with Animals.....$13.50
Weight, per Dozen, 113 Lbs.

Packed Two or More Varieties of Decorations in Each Crate of Six Sleds



Selected Hardwood; Curved Runners; Tops Painted Bright Colors and Ornamented by Hand with Landscapes, Flowers, etc.

Per Dozen

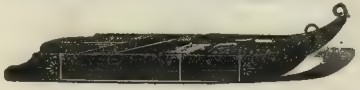
No. 16—Length, 42 in ; Width, 12 in ; Round Spring Shoes.....$18.00

Packed, One-half Dozen in a Crate; Weight, per Dozen, 111 Lbs.

Bent High Running Gear Coupled with a Strong, Round Shoe, without any welds, Extending over the Joints of the Runners. Each Runner is Made of Two Bent Pieces Securely Fastened Together by Suitable Means; All Sleds are Braced by Four Forged Angle Irons on the Inside. Three Cross Seams.

Per Dozen

No. 25—Length, 40 in.; Width, 12 in.; Weight, per Dozen, 107 Lbs.....$27.00



Selected Hardwood, Hand Finished, in Four Colors of Fine Enamel—White, Red, Blue and Black; Beautifully Ornamented, and with the Names Black Bird, Blue Bird, Red Bird and Snow Bird across Each Top of the Respective Colors in a Highly Artistic Manner. Round Shoes, are Scrolled at Point, Nicely Tinned at Both Point and Heel, and Securely Fastened to Runners by a patent method. Each Sled Braced with Four Angle Braces on inside.

Per Dozen

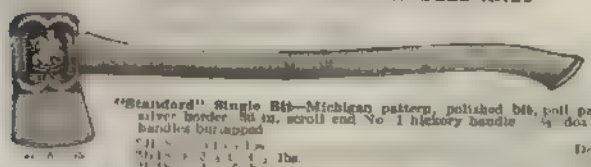
No. 27—Length, 48 in.; Width, 12 in.....$48.00

Packed Four in a Crate, One of Each Color; Weight, per Dozen, 190 Lbs.

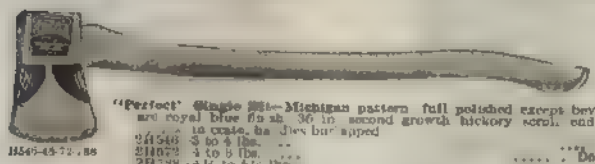
POPULAR AXES

Well known brands whose prestige has been achieved through the grade of materials used, expert workmanship and finish. Axes that give genuine satisfaction. No better quality on the market at these prices. Compare

KELLY AXE MFG. CO'S HANDLED AXES

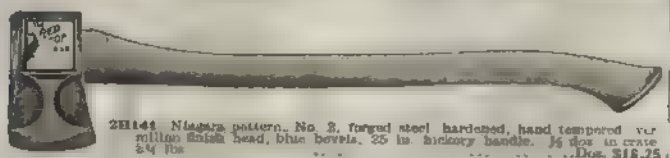


"Standard" Single Bit—Michigan pattern, polished bit, poll painted red silver border 8½ in. scroll end No. 1 hickory handle ... handles burlapped
... Doz $23.85
... 22.15
... Doz $24.25



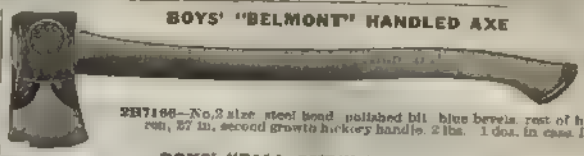
"Perfect" Single Bit—Michigan pattern full polished except bevels which are royal blue 8½ in. 36 in. second growth hickory scroll end handles ... in crate, handles burlapped
... Out
... Doz $26.00
... 26.28

BOYS' "RED TOP" HANDLED AXE



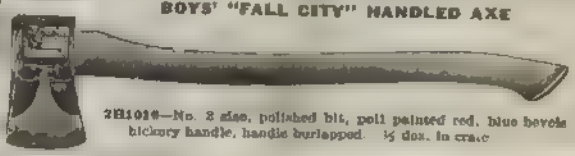
2H141 Niagara pattern, No. 2, forged steel hardened, hand tempered vermilion finish head, blue bevels, 25 in. hickory handle, ½ doz in crate 5¼ lbs ... Doz. $16.25

BOYS' "BELMONT" HANDLED AXE



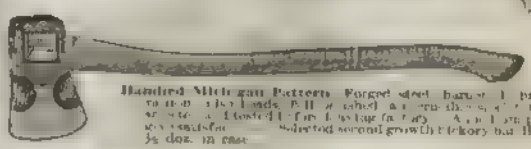
2H7166—No. 2 size steel head polished bit blue bevels rest of head painted red, 27 in. second growth hickory handle. 2 lbs. 1 doz. in case. Doz $12.00

BOYS' "FALL CITY" HANDLED AXE



2H1016—No. 2 size, polished bit, poll painted red, blue bevels 28 in. No. 1 hickory handle, handle burlapped. ½ doz. in crate Doz $16.25

"RED TOP" AXES



Handled Michigan Pattern. Forged steel, hardened, hand tempered, vermilion finish heads, polished and ... bevels, blue ... Each carefully ... Selected second growth hickory handles ... ½ doz. in case

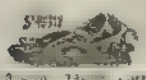
2H7170—3½ lbs., 35 in. handle	Doz $24.00
2H7171—4 " 36 "	24.50
2H7 7 4½ " 36 "	24.85
2H7167 Assrd. 2 to 4 lbs., 35 in. handle	24.00
2H7168—Assrd. 3½ to 4½ lbs., 36 in. handle	24.50
2H7169—Assrd. 4 to 5 lbs., 36 in. handle	24.85

STANLEY PLANES

Standard grade, well known and well made goods every merchant should keep in stock. The national advertising done by the manufacturer is a splendid selling aid. Take advantage of our quotations and order your needs now.

STANLEY BLOCK PLANES

Both adjustable and non-adjustable styles. Smooth bottoms and well sharpened cutters



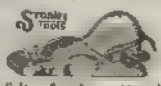
2H162 3 in., 1¾ in. cutter, plain, ... adjustable, japanned sides, ¾ lb. 1 in box Each 95c

2H80 5 in. long, 1 in. cutter, low ... adjustable and ... throat, ... nickel plated trim 1 in box. Each, $2.83

2H18 6 in. long, 1 in. cutter, knuckle ... adjustable and ... like trimmings 1½ lbs. 1 in box Each $2.85

2H110—7¼ in., 1¾ in. cutter, non-adjustable, ground sides 1¾ lbs. 1 in box Each $1.75

2H94 6 in. 1¾ in. cutter, adjustable end and side, japanned trimmings 1½ lbs. 1 in box Each $2.28

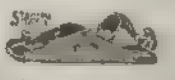


2H19—7 in., 1 ... in. cutter, knuckle joint, adjustable end, nickeled trim ... wide, 1¾ lbs. 1 in box. Each $2.95

STANLEY DOUBLE SPOKE SHAVE

2H151 ... in. ... in. cutter with lever capped fastening cutter to ... pressure on the cutting edge, 3 knurled adjustable set screws, raised handles, plate and cap polished, frame and handles ... Each, ... Doz. Out

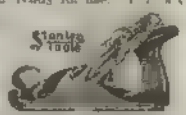
2H230—7¼ in., 1¾ in. cutter, screw ad justment ground sides 1¼ lbs. 1 in box Each, $1.85



2H85½—7 in. 1¾ in. cutter, low angle, adjustable end, nickeled trimmings 1¾ lbs. 1 in box Each $2.56

STANLEY "BAILEY" ADJUSTABLE IRON PLANES

Smooth and corrugated bottoms, hard close grained gray iron ..., rosewood handle and knob, finest English steel cutter tempered, ground and honed ready for use. ...



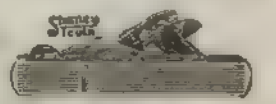
2H1 Smooth, 9 ... long, ¾ in. cutter, 4½ lbs. ... box Each $4.40

2H4C Smooth, ... long, 2 in. cutter, 3½ lbs. 1 in box Each $5.00

2H3C Smooth, 8 in. long, 1¾ in. cutter, 3½ lbs. 1 in box Temp Out

2H5—Jack, 14 in. long, 2 in. cutter, 4¾ lbs. 1 in box ... Each $5.40

2H4—Smooth, 9 in. long, 2 in. cutter, ... box Temp Out

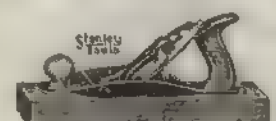


2H6C—Jack, ... long, 2 in. cutter, 7½ lbs. 1 in box Each $5.75

STANLEY "BAILEY" ADJUSTABLE WOOD PLANES

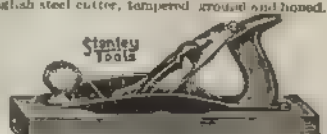
'Bailey' cast in the bottom and 'Stanley' stamped on cutter. Adjustable both end and side. Beech bottom, handle & knob finest quality English steel cutter, tempered, ground and honed.

2H24 Smooth, 8 in. long, 2 in. cutter, 8¾ lbs. 1 in box, ... Each, $2.86



2H5585 Jack, 15 in. long, 2 in. cutter, 8½ lbs. 1 in box ... Each. $3.20

2H85 Smooth, 9 in. long, 2 in. cutter, 3½ lbs. 1 in box, ... Each $4.05

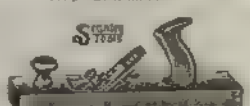


2H95 Fore, 18 in. long 2¾ in. cutter 6½ lbs. 1 in box Each, $4.05

STANLEY GENUINE "GAGE" PLANES

Those old and well established planes are now being manufactured by the Stanley Rule & Level Co. Made of selected applewood. Inserted metal cantlipiece patented adjustment which locks cutter and prevents chattering, carbon steel blades, hardened, all tempered and hand honed, cutter polished, rest of metal parts black japanned, ebony finish handle.

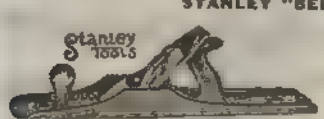
2HG25—Smooth, 10 in. long, 2 in. cutter 1 in box ... Each, $4.05



2HG26—Jack, 14 in. long, 2 in. cutter 1 in box ... Each, Out

2H856—Jointer, 22 in. long, 2 in. cutter 1 in box Each Out

STANLEY "BED ROCK" PLANE

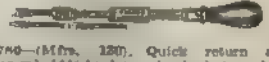


2H007—Jointer, 22 in. long, 2⅜ in. cutter, 8½ lbs. selected hard grain gray iron body, cutter, frog and bottom designed and machined, making practically 1 solid piece, crucible steel cutters, specially hardened and tempered, rosewood hand and knob, plain bottom. 1 in box Each Out

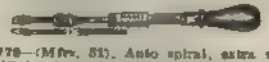
"YANKEE" SCREW DRIVERS AND DRILLS

SPIRAL SCREW DRIVERS

2H506—(Mfrs. 30), Auto spiral, standard size, draws or screws by reciprocating ratchet movement, 3 tempered bits. 1 in box ... Each, $2.35



2H780—(Mfrs. 130), Quick return auto spiral 14¼ in. long, standard sizes draws or screws by reciprocating ratchet movement heavy spring in handle, causing bolt to automatically come back for next push 1 in box ... Temp Out



2H770—(Mfrs. 51), Auto spiral, extra size 17 in. long including bit when closed draws or screws with reciprocating ratchet movement. 1 in box ... Each $2.95

SPIRAL DRILL

2H761—(Mfrs. 44) 9 in. long, adjustable tension for spring strength can be regulated to split large or small drills, hard or soft wood, polished nickel steel handled head 3 assrd. drill points in tool 1 in box Temp Out

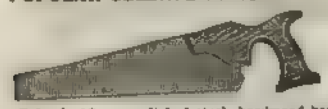
RATCHET DRILLS

2H870—Single speed, 3 jaw tool steel chuck, heavy malleable frame, drill black finish, gears right and left hand, also continuous ratchet movement, easily adjusted, 1 in box ... Each, $4.10

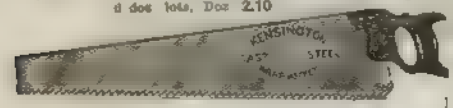
SAWS BLADES AND MISCELLANIES

Keen cutting, tempered steel blades, strong easy grip handles, produced by experts. Saws for every use, excellent sellers at prices that are interesting. Every saw shown represents a value that assures satisfaction. Carefully study this line and you will buy these REAL VALUES

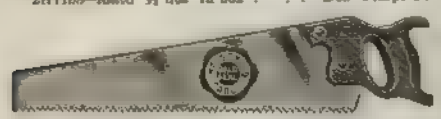
POPULAR SELLING HAND SAWS



Popular Priced—12 in., polished steel, hardwood handle
2H303—1 doz. in box . . . . . Doz **$2.25**
4 doz. lots, Doz **2.10**



Asst—3 each 22, 24 and 26 in., polished steel, varnished hardwood handle
2H7153—Asstd ½ doz. in box . . . Doz Temp. Out



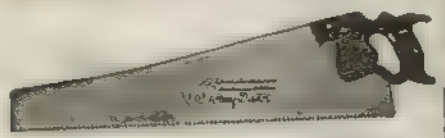
Asst—3 each 14 and 16 in., crucible steel, ground, tempered and polished, tool filed and set, hardwood handle varnished grip, brassed screws.
2H7408—Asstd ½ doz. in box. . . . . Doz **$7.25**

Solid Sizes—"Gold Seal," crucible steel ground, tempered and polished, teeth filed and set, hardwood handle and varnished grip.

2H662—14 in.	1 doz.	in box	Doz **$7.75**
2H663—16 "	1 "	"	" 8.25
2H664—18 "	½ "	"	" 9.50
2H665—20 "	½ "	"	" 9.85
2H667—22 "	½ "	"	" 10.50
2H668—24 "	½ "	"	" 11.25

HENRY DISSTON & SONS' SAWS

Warranted crucible steel, specially tempered, extra well finished, tapered ground edges, selected polished beech handles with brass screws.



Panel—(Mfrs D8', applewood handle. Asstd 9 to 11 points. ½ doz. in box
2H383—24 in. . . . . Doz. Out
Hand—(Mfrs D8) 26 in., applewood handle, 5 brass screws. 1 in pkg.
2H2050—7 points . . . . . Doz. **$36.00**

SIMONDS' HAND SAWS

Warranted Special Crucible Steel

Simonds' patent tempered, full polished tapered ground edges polished beech handle, 4 brass screws.

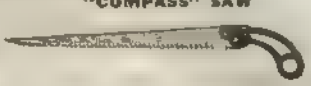
Hand Saws—½ doz. in box.

2H400—	(Mfrs 10½),	26 in.	points		Doz	Temp. Out	
2H418—	(" 10½)	26 "	8	"	Doz	**$3.10**	
2H419—	(" 10½)	26 "	8	"		3.10	
2H6403—	(" 372),	26 "	8	"	}	Temp. Out	
2H6404—	(" 372),	26 "	8	"			
2H6695—	(" 372),	26 "	8	"			

Rip Saws—½ doz. in box

H435—	Mfrs. 10½,	26 in.	5½ points.	}	Doz
2H438—	(" 10½),	26 "	6 "	}	Out

"COMPASS" SAW



2H9290—8 in., polished steel blade "Handigrip" black japanned iron handle, securely riveted
2 doz. lots Doz Temp. Out

ADJUSTABLE HANDLE HOUSEHOLD SAW SET

2H333—4 adjustable blades, 18 in. crosscut, 18 in. rip, 14 in. compass and 12 in. keyhole, crucible steel, oil hardened and tempered, polished adjustable applewood handle. 1 set in box
SET 4 pcs. **$3.25**

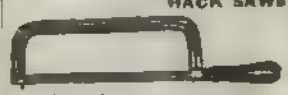
MEAT SAWS

2H312—14 in. tempered steel blade, spring round steel frame, applewood handle. ½ doz. in box Dz **$4.65**

2H9309—13½ in. crucible tempered steel blade, heavy ½ in. polished flat frame shaped varnished beech handle. ½ doz. in box . Dozen **$5.25**

2H3510—[illegible] spring blade ¾in forged flat steel frame, polished shaped beechwood handle, 3 nickel screws. ½ doz. in box Doz Out

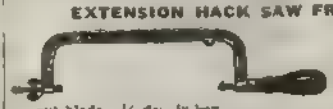
HACK SAWS



2H8928—[illegible] in. bright nickeled heavy steel frame, blued blade, [illegible] and adjustable, rod, complete with 8 in. high grade hack saw blade. 1 doz. in box Doz **$3.50**

2H322—Extends 8 to 12 in., strike pinned maple cork frame, hack cut wood handle with adjustable blade. ½ doz. in box. . . . Doz **$17.85**

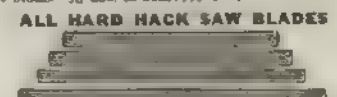
EXTENSION HACK SAW FRAME



2H329—Steel frame, nickeled and polished extends 8 to 12 in., cherry finished handle with. Doz **4.25**

[illegible] blade. ½ doz. in box. . . . .

ALL HARD HACK SAW BLADES



"Gold Seal" Blades—Special crucible steel, annealed and tempered by secret process. Acknowledged by users to be exceptional blades for all around use. All hard blades.

H396—8 in.	2 doz. lots	H401—10 in.	2 doz. lots
(Total $1.04)	Doz. **52c**	(Total $1.[illegible])	Doz **58c**
H397—9 in.	2 doz. lots	H410—12 in.	doz. lots
(Total $1.16)	Doz. **58c**	Total $1.[illegible]	Doz **68c**

FLEXIBLE BACK HACK SAW BLADES

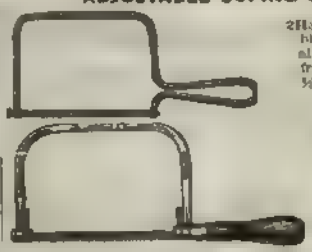
"Gold Seal" Blades—Special crucible steel, hardened and tempered by secret process, particularly adapted for all around use. Flexible back or hard edge blades. 1 doz. in box.

2H420—8 in.	Doz **48c**	2H423—10 in.	Doz **68c**
	Gro. **$5.50**		Gro. **$7.75**
2H421—9 in.	Doz. **56c**	2H424—12 in.	Doz. **65c**
	Gro **$6.50**		Gro **$7.50**

Simonds' Blades—Highest grade steel, flexible, tempered on edge, fast cutting, practically impossible to break, 18 teeth to inch. 1 doz. in coil

2H1184—8 in.	Doz. **72c**	2H1185—10 in.	Doz **78c**
	Gro. **$8.40**		Gro **$9.00**
2H1186—12 in.			Doz **68c**
			Gro **$5.50**

ADJUSTABLE COPING SAWS



2H315—6in. tempered blade 10 in. over all, nickeled steel frame, adjustable. ½ doz. in box Doz. **$1.75**

2H316—6½ in. cut, nickel plated heavy steel frame, patented cutting handles inside of frame 4½ in., black rubberoid handle. ½ doz. in box Doz. Out

BUTCHER SAW BLADE

2H937—Tempered spring steel, filed and set. Can be cut to any size wanted. 25 ft. coil in box. . Each, **$4.80**

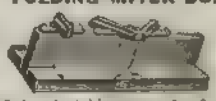
BUCK SAWS

"Master Mechanic"—30 in. clock spring blade tempered and blued, 1¼ in. wide thin back, filed and set, assid mission green bige enameled and mahogany finish frames, patent duplex retained rod.
2H376—Asstd ½ doz. in case 38 lbs. . . . Doz **$12.75**

"Master Mechanic"—30 in. hardwood frame, red stained and varnished, double breasted with retained zipper rod, warranted. ½ doz. in case
2H7510—1½ in. blue steel blade . Doz **$12.50**

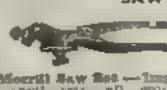
"Simond's"—Mfrs. 104), double braced and double riveted natural wood varnished frame, extra heavy retained rod, 30 in. crucible steel thin back blade 2¼ in. wide.
2H6678—½ doz. in box . . . . . Doz **$16.45**

FOLDING MITER BOX



2H636—14x3x5½ adaptable to any hand or back saw, takes mouldings up to 5½ in., hardwood varnished frame, nickeled guides. 1 in box. . . . . Each **$2.25**

SAW MISCELLANIES

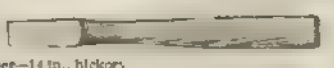


Morrill Saw Set—Improved anvil, [illegible] cross point, polished
2H727—½ doz. in box Doz. **$5.95**

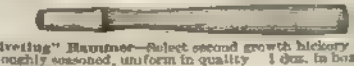
Saw Clamp—For filing saws [illegible] long, japanned finish
2H608—1 in pkg. Each **68c**
(Total $2.04)

TOOL HANDLES

Seasoned timber correctly cut and shaped, well finished. Be sure your stock contains the right variety so as not to miss any sales. This line merits your attention if you desire to purchase reliable goods at low prices



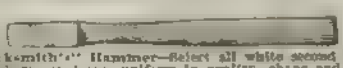
Hammer—14 in., hickory
2H961—1 doz. in box Gro. **$9.00** Doz. **78c**



"Riveting" Hammer—Select second growth hickory, thoroughly seasoned, uniform in quality. 1 doz. in box
2H[illegible] 12 in. } Doz.
2H9416—16 " } **$1.35**
Gro. **$15.50**

"Machinist" Hammer—Select all white second growth hickory, oval eye, uniform in quality, shape and finish. 1 doz. in box.

	in.	} Doz.
2H9349—18	"	} **$1.75**
2H9350—20	"	
2H9351—22	"	

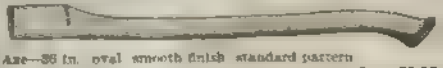


Blacksmith's" Hammer—Select all white second growth hickory, oval eye, uniform in quality, shape and finish. 1 doz. in box

3H6452—14 in.		} Doz.
2H9353—16 "		} [illegible]
2H[illegible]—20 "		

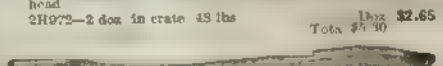
Hatchet—14 in., hickory
2H905—2 doz. lots . . . . . Doz **80c**
Gro. **$9.40**

Hatchet—Master Mechanic—14 in., second growth hickory hand split, each labeled and wrapped
2H967—1 doz. in carton Doz **$1.36**
Gro. **$15.00**



Axe—36 in., oval smooth finish, standard pattern
2H971—2 doz. in crate 41 lbs. . . . Doz. **$2.25**
Total $4.50

Axe—"Exhibition" 36 in., oval, good grade hickory, plain head
2H972—2 doz. in crate 43 lbs. Doz **$2.65**
Total $5.30



Axe—36 in., octagon hand shaved, plain head.
2H977—2 doz. in crate 47 lbs Doz **$3.50**
Total $7.00

HANDLED SINGLE BIT AXES

CRESENT

RED PAINTED BODY. POLISHED BIT AND POLL.

Special Crucible Forged Steel Carefully Tempered Each Axe Bears an Attractive "Crescent" Black and Gold Label.

PHILADELPHIA JERSEY PATTERN
Bent Oval Handles No. 2

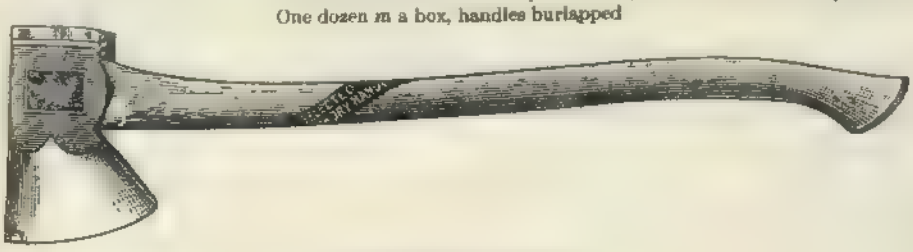
Weights, Heads, Assorted, Lbs.	2 to 2½	2½ to 3	3 to 3½
Length of Handles	32	32	32
Per Dozen	**$35.00**	**35.00**	**35.00**

One dozen in a box, handles burlapped.

BALTIMORE JERSEY PATTERN
Bent Oval Handles No. 2

Weights, Heads, Assorted, Lbs.	3½ to 4½	4 to 5	4½ to 6
Length of Handles	34	36	36
Per Dozen	**$35.50**	**36.00**	**36.50**

One dozen in a box, handles burlapped



ROCKAWAY PATTERN
Bent Oval Handles No. 2

Weights, Heads, Assorted, Lbs.	3½ to 4
Length of Handles	34
Per Dozen	**$35.50**

One dozen in a box, handles burlapped.

SOUTHERN KENTUCKY PATTERN
Bent Oval Handles No. 2

Weights, Heads, Assorted, Lbs.	3½ to 4½	4 to 5	4½ to 6
Length of Handles	36	36	36
Per Dozen	**$35.50**	**36.00**	**36.50**

One dozen in a box, handles burlapped

HANDLED SINGLE BIT AXES

KELLY'S PERFECT

BLUE PAINTED PHANTOM BEVELS. POLISHED BIT AND HEAD

Solid Steel Poll Crucible Forged Steel Bit Tempered With Natural Gas Sharpened Ready for Use The Patented Bevels Prevent the Axe from Binding in the Wood and Make it Easier to Sharpen Each Axe Bears an Attractive White and Black Embossed Label

SOUTHERN KENTUCKY PATTERN

Extra Bent Oval Handles

Weights, Heads, Assorted, Lbs	2½ to 4½	4 to 5	4½ to 6
Length of Handles	36	36	36
Per Dozen	$46.00	40.20	40.70

BALTIMORE KENTUCKY PATTERN

Extra Bent Oval Handles

Weights, Heads, Assorted, Lbs.	3½ to 4½	4 to 5	4½ to 5½
Length of Handles	36	36	36
Per Dozen	$46.00	40.20	40.70

PHILADELPHIA JERSEY PATTERN

Extra Bent Oval Handles

Weights, Heads, Assorted, Lbs	2 to 2½	2½ to 3	3 to 3½
Length of Handles	32	32	32
Per Dozen	$38.20	38.20	38.20

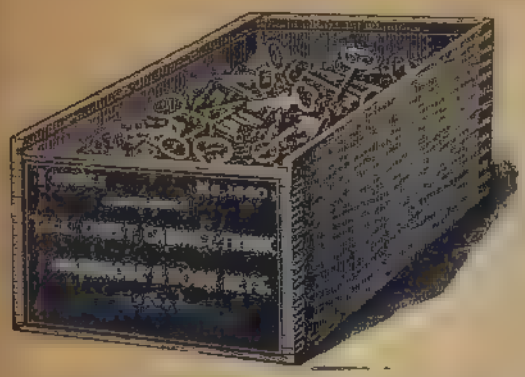
BALTIMORE JERSEY PATTERN

Extra Bent Oval Handles

Weights, Heads, Assorted, Lbs.	3½ to 4½	4 to 5	4½ to 5½
Length of Handle	34	36	36
Per Dozen	$40.80	40.20	40.70

Large and Complete Stock of Automobile Accessories—Write for Separate Catalog.

KEY CHESTS AND DRAWERS



Assortment containing till, chest, cabinet trunk, wardrobe, malleable iron mortise and rim keys.

No. 1000
Weight, lbs 4
Per box $6 50

One gross in box

Assortment containing till, chest, cabinet, trunk and wardrobe keys, malleable iron brass plated, mortise and rim keys and blanks.
Cabinet 14x11⅛x4½ inches.

CONTENTS

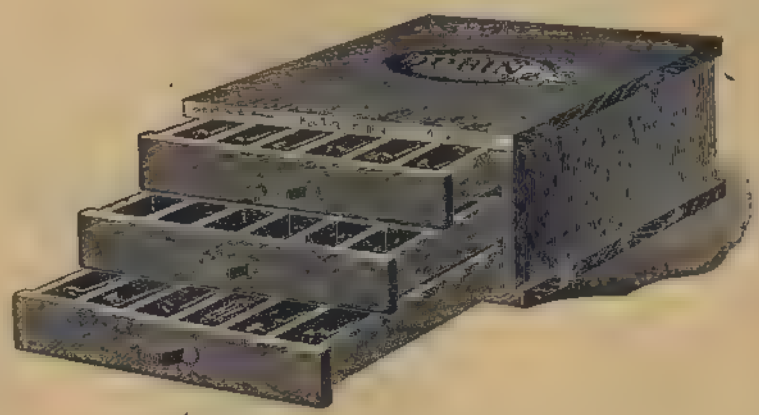
Drawer No. 1—½ dozen each: 1, T1 to 5, B10, 11, E28 to 31, 407, 421, 622, 625½, 626, 626½, 631, 633, 634½, 700, 702, 704, 1134, 1411, 4126, 4153, 5028, 5030, 5031, 5048, 5216, 5537, 5549¼, 5591, 5806.

Drawer No. 2—½ dozen each: 4120B, 4141B, 5537, 5585, 7631, 7675½, 7761, 7762, 7765, 7784, 7791, 7792, 7792½, 7792½A, 7793, 7795, 7797, 7798, 7837, 7903, 7906, 7911, 8460, 8487.

Drawer No. 3—½ dozen each: 7724, 7732, 7768, 7769, 7771, 7780, 7790, 7799, 7946, 8135, 8154, 8163, 8427, 8428, 8476, 8486, 9013, 9016.

No. ..... 106 A
Weight each, lbs. 9½
Each $20.25

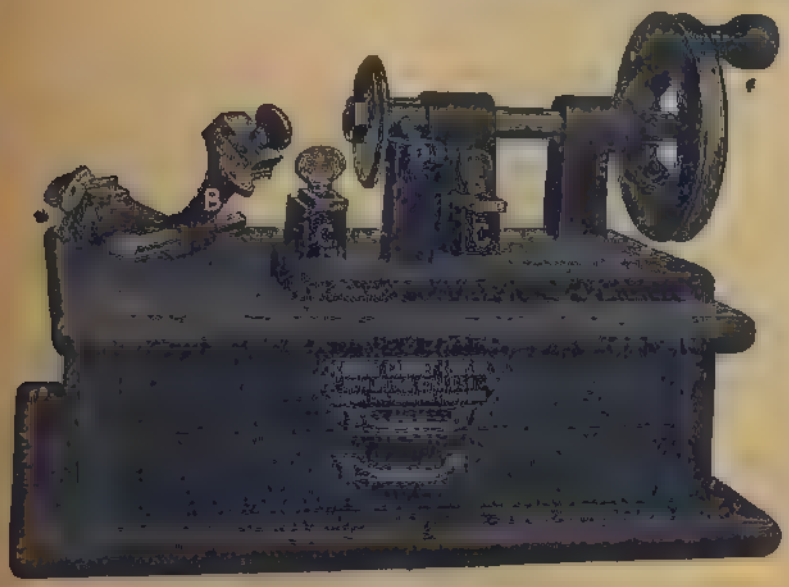
Three gross in box.



Assortment consists of cabinet and 3 gross of till, chest, trunk and wardrobe keys, nickel silver blanks, malleable iron, nickel plated door keys and blanks.

No. 106
Size of cabinet, inch. 14x11½x5
Weight, complete assortment, lbs. 11¼
Each $24 00

CORBIN AUTOMATIC KEY DUPLICATING MACHINE
WITH KEY BLANK ASSORTMENT
FOR HAND OR POWER



Consists of one key-bitting machine with file cutter, one oak cabinet, and one gross assorted pin tumbler blanks.

CONTENTS

2 dozen Yale
2 dozen Lockwood
2 dozen Corbin
½ dozen Barrows
1 dozen Russell & Erwin
¼ dozen Eagle cabinet, each 5010 and 5040
1 dozen Sargent
1 dozen Reading
1 dozen Norwalk
½ dozen Penn
½ dozen Chicago

No. 9101—Packed in case complete. Weight each, 38 lbs.
Each $85 00

No. 9102—Key bitting machine only. Weight each, 23 lbs.
Each $63.00

No. 9108—Key machine and cabinet, without keys. Weight each, 15 lbs.
[redacted] $75.00

Extra Cutters—For No. 9102 machine.
Each—Weight each, ⅛ lb. $6 00

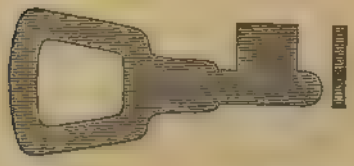
KEY BLANKS

Illustrations full size

PADLOCK

No. 5549
Per dozen $0 50

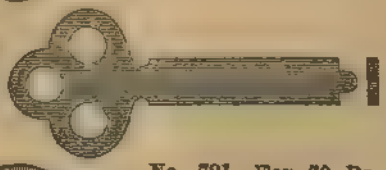
No. 5586
Per dozen $0.50



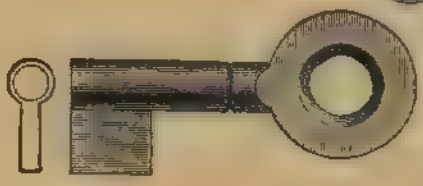
No. 5588
Per dozen $0.50

No. 5549½
Per doz ... $0.75

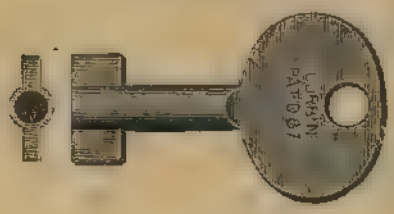
No. 5549¼
Per dozen $0.75



No. 5549¼
Per dozen $0.75



No. 791—For 79 Bohannan padlock.
Per dozen $3 00
No. 851—For 85 Bahannan padlock.
Per dozen $3.00
Cut to fit 79 and 85 padlocks, which are keyed alike.



No. 5586
Per dozen $1.50

No. .....5586 A
Per dozen $1.50

Average weight, ¼ lb. Three dozen in a box.

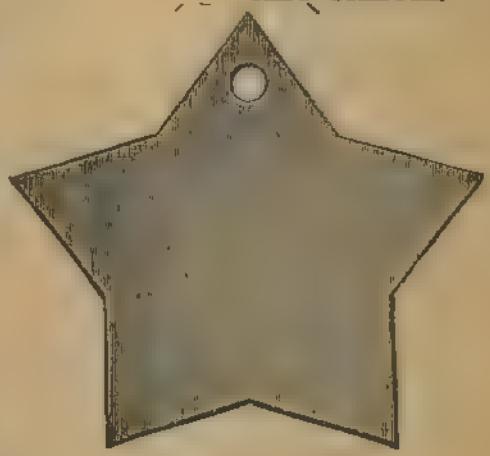
SLIDING DOOR

No. 105—Solid brass. Weight per dozen, ¾ lb.
Per dozen $12.00
Three dozen in box

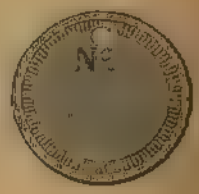
TELEPHONE SLUGS

No. 100B—Brass. Weight per 100, 2½ lbs. .....Per 100 $1.25
No. 100S—Steel. Weight per 100, 2 lbs. ..... " .90
Loose.

KEY CHECKS



No. 18—Brass.
28 to 1 pound.
Per 100 ....$4.50



No. 2—Brass. 115 to 1 pound.
Per 100 .....$1.50

No. 12—Brass. 45 to 1 pound.
Per 100 .....$2.25

No. 4—Brass. 110 to 1 pound.
Per 100 .....$1.50

No. 03925—350 to 1 pound.....Per 100 $3 00
Loose.

WHEEL GOODS

KIDDIE KARS

Made in five different sizes. The seat is made of carefully seasoned selected basswood. The wheels made of crowned rock maple, sanded to a glossy finish.

Nos.	1	2	3	4	5
Height to top of seat, inch	7	8½	10	11½	12¾
Length, inch	15	17	18	20	22
Number in a crate, dozen	3	2	2	1	1
Weight per crate, lbs.	100	120	160	110	120
Per dozen	$18.00	27.00	36.00	42.00	48.00

Basswood body, with box 7x12 inches; 4½-inch crowned hard maple wheels. Trailers

Height, inch	10½
Weight per crate, lbs.	110
Per dozen	$18.00

Two dozen in a crate

HORSIE-TODDLERS

Body and hind quarters are one piece thick Arizona pine. The head and fore legs are of one piece also. The two parts are joined at the shoulder by a swivel bearing that allows the Horsie-Toddler to be steered in any direction. This swivel is oversize and will never wear out. The Horsie-Toddler has four wheels, with metal bushings throughout. The saddle is full shaped and provides an easy and comfortable seat. Life-like decorations in four colors. Finish has appearance of baked enamel. Made in four sizes.

Nos.	2	3	4	5
Age years	1-1½	1½-2½	3½-5	5-7
Weight each, lbs.	3¼	5¼	8	8½
Each	$3.25	3.75	4.25	4.75

Above sold in assortments only containing one No. 2, two No. 3, two No. 4, one No. 5.

Weight, lbs.	59
Per assortment	$27.00

One assortment in paper carton

WAGONS

COASTER

Well seasoned hardwood body. Removable sides. Extra heavy wheels with iron hubs. Steel felloes and tires. Steel roller bearings with hardwood spokes. Front and rear axles strongly braced, made of ⅛-inch round steel. No. 0A has 6-inch solid iron wheels. One in corrugated paper carton.

Nos.	0A	1A	2A	2½A	3A	4A
Size bottom, in.	12x28	14x32	14x34	15¼x36	16x38	18x40
Diam. wheel, in.	8	8	11	11	11	11
Weight ea, lbs.	15	28	32½	35	40	43
Per dozen	$112.00	132.00	144.00	150.00	160.00	180.00

Seats—To fit No 1A wagon. Weight each, 5 lbs.	Each $2.50
Wheels— 8-inch, to fit Overland wagons	" .40
Wheels—11-inch, to fit Overland wagons	" .50
Roller Bearings	Per set of 4 $0.40

STEEL

HERCULES

Extra strong sheet steel body, beaded. Kiln dried wood bottom with four cross cleats. Extra heavy steel gears and wire wheels of great strength. Hardwood handle with loop hand hold. Color of body, blue outside, red inside, stenciled in gold. Gears and wheels black enameled. Nickel plated hub caps. Packed two in a carton.

Nos.	326	330	336
Size of body, inch	12x26	14x30	16x36
Diameter of wheels, inch	10	11	12
Shipping weight per dozen, lbs.	198	210	230
Per dozen	$100.50	119.00	170.00

UNHANDLED DOUBLE BIT AXES

RED CHIEFTAIN

Crown or Michigan

Hand Forged from Genuine Black Diamond Crucible Steel Warranted Free from Flaws or Soft Temper Accurately and Uniformly Punched Eyes Each Axe Bears an Attractive "Red Chieftain" Gold Bronzed Label.

RED PAINTED BODY. GOLD BRONZED BORDER. POLISHED BITS

CROWN OR MICHIGAN PATTERN

	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weights, Assorted, Lbs				
Weight Per Dozen About Lbs	48	54	59	66
Per Dozen	$38.00	38.50	39.00	39.50

REVERSIBLE OR HALF PEELING PATTERN

	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weights, Assorted Lbs				
Weight Per Dozen About Lbs	48	54	59	66
Per Dozen	$38.00	38.50	39.00	39.50

One dozen in a wooden case, each wrapped in heavy paper

Reversible or Half Peeling

Red Warrior and Robert Mann Axes—Same Finish as Red Chieftain can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern and Weight.

BLACK HAWK

Crown or Michigan

Natural Black Finish. Genuine Black Diamond Crucible Steel Used in the Manufacture of these Axes. Hand Forged. Warranted Free from Flaws or Soft Temper An Attractive "Black Hawk" Embossed Label on Each Axe

NATURAL BLACK FINISH

CROWN OR MICHIGAN PATTERN

Weights, Assorted, Lbs	3½ to 4½
Weight Per Dozen About Lbs	50
Per Dozen	$38.50

REVERSIBLE OR HALF PEELING PATTERN

Weights, Assorted, Lbs	3½ to 4½
Weights, Per Dozen, About Lbs	50
Per Dozen	$38.50

One dozen in a wooden case, each wrapped in heavy paper

Reversible or Half Peeling

Flint Edge Axes—Charcoal Finish Can be Supplied From Factory in 5 Dozen Lots (No Less) Any Patterns and Weights.

UNHANDLED DOUBLE BIT AXES

KELLY PERFECT

Soft Steel Body. Crucible ForgedSteel Bit Tempered with Natural Gas Sharpened Ready for Use Patented Bevels Prevent the Axe from Binding in the Wood, and Makeit Easier to Sharpen An Attractive Embossed Label Appears on Each Axe.

BLUE PAINTED PHANTOM BEVELS. POLISHED BITS

CROWN OR MICHIGAN PATTERN

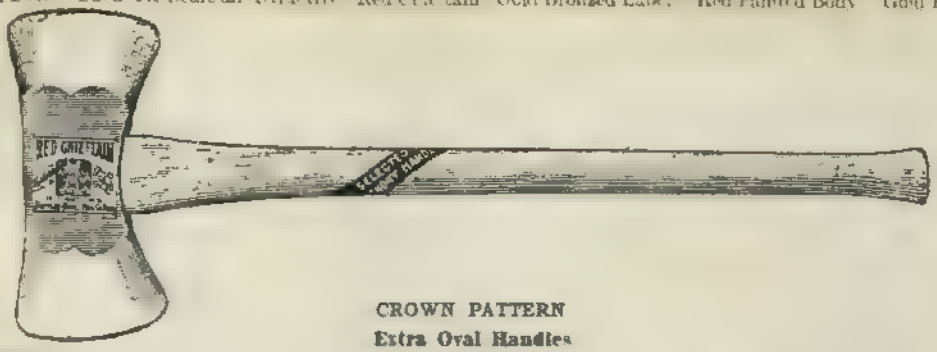
	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weights, Assorted Lbs				
Weight, Per Doz. Abt. Lbs	54	57	61	65
Per Dozen	$40.00	40.00	41.00	43.00

One dozen in a wooden case, each wrapped in heavy paper.

HANDLED DOUBLE BIT AXES

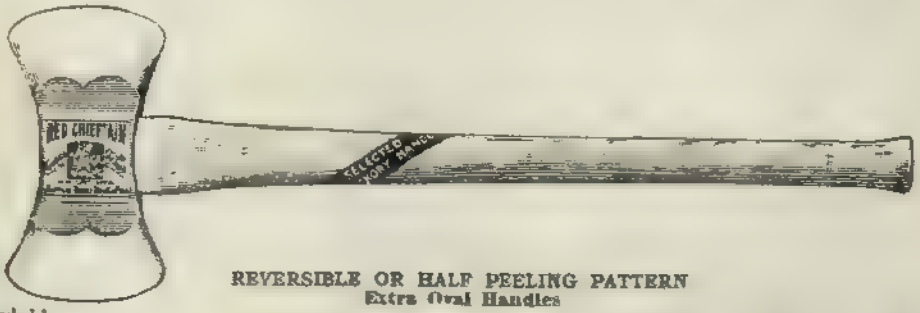
RED CHIEFTAIN

Hand Forged from Genuine Black Diamond Crucible Steel. Warranted free from Flaws or Soft Temper. Accurately and Uniformly Punched Eyes. Each Axe Bears an Attractive "Red Chieftain" Gold Bronzed Label. Red Painted Body. Gold Bronzed Border. Polished Bits.



CROWN PATTERN
Extra Oval Handles

Weights, Assorted, Lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Length of Handles	36	36	36	36
Per Dozen	**$47.10**	**47.50**	**48.20**	**48.70**



REVERSIBLE OR HALF PEELING PATTERN
Extra Oval Handles

Weights, Assorted, Lbs	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Length of Handles	36	36	36	36
Per Dozen	**$47.10**	**47.50**	**48.20**	**48.70**

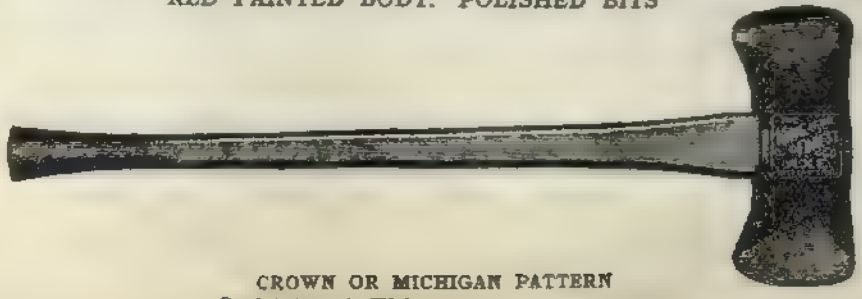
One dozen in a box, handles burlapped

HANDLED DOUBLE BIT AXES

KING OF THE FOREST

Hand Forged from Fine Quality Steel, by a Special Continuous Process which Saves Several Heatings and Thoroughly Refines the Steel. The Bit or Cutting Edge is Made of Finest Grade of Crucible Edge Tool Steel. The Special Process Used in the Tempering Gives the keen edge required by all Skilled Choppers. The Eyes are Punched from Solid Steel Bars, not Rolled and Welded, Which Insures Against the Defects Existing in Other Processes, and Likewise, Insures a Sound Eye, Which Will not Stretch or Open.

RED PAINTED BODY. POLISHED BITS



CROWN OR MICHIGAN PATTERN
Oval Selected Hickory 34 In. No. 2 Handle.

Weights, Assorted, Lbs. .	3 to 4	3½ to 4½
Weight, Per Dozen, About Lbs . .	54	60
Per Dozen	**$37.50**	**38.00**

Half dozen in a box, handles projecting and burlapped, Axe head wrapped in heavy paper

FAMOUS "KING" WASHER

With Ball Bearing Reversible Swinging Wringer. Can Be Used With Gasoline Engine or Electricity

DESCRIPTION

In Construction and Finish this machine is unexcelled. It is very simple and all the mechanism is perfectly fitted and very strong. With proper care the "King" washer will last for many years. The tub is made of selected Southern cypress—"the wood everlasting"—is well built and finely finished with good quality varnish. All the mechanism is placed underneath the tub on a strong steel frame. (Except the upper wringer driving gear, which is fully enclosed so that there is no danger of hands or clothing of the operator being caught). All parts are electro-galvanized. This finish is much more attractive than paint, and as it will not peel nor check, it will last a lifetime and effectually prevent rust.

Simple in Operation. The operation of this machine is simple in the extreme, as there is nothing about it to get out of order. The clothes are placed in the tub with a sufficient quantity of boiling water so that they will float, and enough soap to make a good suds. It is not necessary to use chemicals or prepared washing powders of any kind. The action of the agitator does not rub the clothes against the sides or the bottom of the tub, but operating as it does at a good speed, forces the boiling suds back and forth through the very fibre of the clothes, thus loosening all of the dirt without wearing out the clothes or damaging them in any way as when rubbed on the old fashioned rubbing board. This machine not only saves time, labor and clothes, but actually washes any article much cleaner than is possible by hand.

The Frame or Standard is made of angle steel, the different pieces being securely riveted to each other, forming an exceedingly strong and rigid frame, which at the same time, is not heavy nor cumbersome. The entire frame has electro galvanized, non-rust finish, and is mounted on strong steel casters which allow the machine to be readily moved from place to place.

The Steel Extensions for holding three extra tubs are hinged to the sides of frame, and provide substantial supports for the tubs. When not in use these extensions are folded up close against the tub and are entirely out of the way. The complete machine then occupies no more space than the ordinary one-tub machine. Please note that washer is furnished with or without extensions. See prices below.

Ball Bearing Swinging Wringer. A special feature of this machine is the swinging or adjustable wringer. This can be instantly swung into any one of three different positions—for wringing clothes from machine to rinse water, then bluing water, and finally to clothes basket—by simply pulling out a small top or pin, which secures locks wringer into place when released. It is of the highest grade, nicely fit shed, and fitted with ball bearings. The rubber used in the rolls is of the very best quality and with proper care will give perfect satisfactory service. This wringer is fitted with a new patented device which allows the rolls to be relieved of all pressure instantly as is sometimes necessary should the operator carelessly catch her finger or if for any reason it is desired to release the rolls of pressure quickly. It is started, stopped, or reversed by a conveniently located lever.

Cost of Operation. The cost of operation is so small that it need hardly be considered, as when a gasoline engine is used for power the entire cost is covered by the amount of gasoline necessary to run the engine. Five cents will certainly cover the biggest kind of a family washing. If an electric motor is used for power the cost is very light—less than two cents per hour. As the average family washing can be finished complete in from two to three hours' time, the total cost for electricity will never be more than ten cents per week.

The King Washer can be operated by a gasoline engine or by an electric motor. Note prices.

Illustration shows Washer equipped with extensions for holding extra tubs. When not in use these extensions are folded flat against machine. Washer can be supplied with or without these extensions. Note prices.

The Motor. The electric motor is of ample strength to run the wringer and the washing machine at the same time. All of these electric machines are regularly equipped with motors for use on alternating current, 110 volt, 60 cycles electric systems, as these specifications are proper for practically all the electric light systems today. The machine can be furnished, however, with motors for use on any odd voltage system. In order that the proper motor shall always be sent, we request that orders for electric machines specify current, volts and cycles.

All Washers are fully tested before being shipped and carefully crated and shipped direct to you from Illinois Factory. Shipping weight about 185 lbs.

B-100—King Washer with Swinging Wringer for gasoline engine power without steel extensions **$42.95**

B-101—King Washer with Swinging Wringer for gasoline engine power with steel extensions **$44.50**

B-102—King Washer with Swinging Wringer and electric motor complete without steel extensions **$67.50**

B-103 King Washer with Swinging Wringer and electric motor complete with steel extensions **$70.50**

EXCELLO POWER WASHER

With Ball Bearing Reversible Swinging Wringer

DESCRIPTION

Practically every up-to-date farmer owns a gasoline engine or has his farm equipped with electricity, and while he finds it a great convenience in grinding feed and doing a great deal of other work around the farm, the farmer's wife still, to a large extent, does her washing by hand. There are many hours in a week, when the gasoline engine or electric current is not in use and there is no reason why it should not be used to relieve the housewife of the hardest part of her work—the weekly washing.

Finish. The construction and finish of the Excello Washer is high grade in every respect. It is very simple and every part of the mechanism is not only carefully fitted, but of great strength. With proper care, it will last for many years. The tub is made of selected Southern Cypress—"the wood everlasting," finely finished with good quality of varnish. The gearing is all placed underneath the tub on a heavy iron bracket, which also acts as a brace for the legs. All metal parts are sherardized; a finish that is far more attractive than paint, and as it will not peel or check, effectually prevents rust. The legs are fitted with strong casters, which allow the machine to be moved easily.

Ball Bearing Wringer. The wringer furnished is of the largest grade obtainable, nicely finished and fitted with ball-bearings. The rubber used in the rolls is of the very best and with proper care, this wringer will give perfect service for many years. It is connected in such a manner that it can be run in either direction and can also be run at the same time the washing machine is in operation, or independently of it. Is fitted with safety release device, which relieves rolls of all pressure instantly. An extra drain board is furnished for use when wringing from the blueing water to the top of tub.

Cost of Operation. The cost of operation of this machine is simple in the extreme, as there is nothing about it to get out of order. The large belt drive wheel is located underneath the tub. This does away with any possibility of the operator's skirts catching in belt or shafting. On account of being equipped with a power driven wringer, it relieves washday of every particle of work, of which the wringing has always been the hardest part. The cost of operation is simply the small amount of gasoline or electric current used each washday and is so small that it cannot be estimated. Five or ten cents per week will undoubtedly cover it.

The Excello Washer can be used with a gasoline engine or with an electric motor. We can furnish same equipped with a high grade motor as per the following description.

The Motor. The motor is of simple strength to run either the washing machine alone, or the washing machine and wringer at the same time, if the tub is not overloaded. It is the best motor manufactured today for use on washing machines and is thoroughly dependable. Orders must specify if for use on direct or alternating current, also voltage and cycles.

The Excello Washer is carefully tested before being shipped. Is crated and shipped direct to you from Illinois Factory. Shipping weight about 150 lbs.

B-104—Excello Washer with Swinging Reversible Wringer for gasoline engine power **$39.75**

B-105—Excello Washer with Swinging Reversible Wringer and electric motor complete **$69.50**

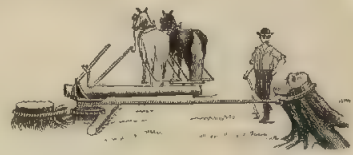
SUPREME STUMP PULLER

INCREASE THE VALUE OF YOUR WASTE LAND FROM $50 TO $250 AN ACRE — DO IT WITH A STUMP PULLER

The Stump Puller is one of the most profitable investments on the farm today. It will clean your waste stump acreage when other work must be abandoned, as during the wet season, and give you access to your virgin soil, the most productive soil on earth.

The low-down feature of our Stump Puller insures the greatest leverage possible in a machine of this class, its V-drum is designed to preserve the life of the rope, winding it in even layers; its platform is designed for use on either the lever ground or on the hillside; it is provided with a ratchet-pawl to secure the load, and working automatically, while the sweep-lift throws the machine in and out of gear to unwind the rope or allow the team to cross the rope with loose tugs.

The capacity of each size of the machine is clearly given in the following specifications, but in making your selection see that the size is liberally large, as the saving in labor will more than make up the difference in first cost. The use of the snatch block is advised in all work over 10 inches through. Shipped from Southern Minnesota factory.



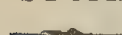
Article No.	Horses Required	Steel Pull Rope: Length Feet	Steel Pull Rope: Diam Inches	Anchor	Size Stump Inches	Shipping Weight, Pounds	Price
B-100	One or Hand	30	½	5 foot loop	4	175	$25.95
B-101	1 or 2	40	5/8	5 foot loop	6 to 8	225	37.95
B-102	1 or 2	50	¾	6 foot rope	16 to 18	350	51.95
B-103	1 or 2	60	7/8	8 foot rope	24	425	67.95
B-104	Two	70	1	8 foot rope	30	550	87.45

STUMP PULLER ROPE

From one of the largest and best manufacturers of high grade rope. One grade only, especially tempered, carefully assorted wires of No. 1 steel. Furnished any length, 10 feet or over, prices without couplings or fittings.

Article Number	Diameter Rope	Weight per 100 feet	Price, per ft.
B-105	½-inch	39 pounds	$ .13
B-106	5/8 inch	62 pounds	.18
B-107	¾ inch	89 pounds	.25
B-108	7/8 inch	126 pounds	.32
B-109	1 inch	158 pounds	.41

STUMP PULLER ACCESSORIES



ROPE COUPLINGS

The coupling is formed by using a Rope Hook on the end of one rope and a Slip Loop Coupler on the end of the other rope, a projection on the Rope Hook locking the coupling securely. They can be attached or detached instantly, and make the only practical coupling for wire rope.

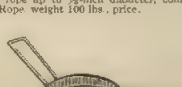
Prices for Rope Hook and Slip Loop Coupler

	Dia. Rope	
B-110	½-inch, weight 8 lbs.	$1.25
B-111	5/8 inch, weight 12 lbs.	1.40
B-112	¾ inch, weight 18 lbs.	1.67
B-113	7/8 inch, weight 24 lbs.	1.90
B-114	1 inch, weight 30 lbs.	2.45

PATENT SNATCH BLOCK

Designed to increase the power of the machine. Can be opened instantly to place on or take off the rope as heavy or light work requires. The steel shells are perfectly centered on a cold-rolled pin fastened with spring cotters. Positively the most dependable Snatch Block on the market today.

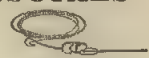
B-115	For use with rope up to ¾-inch diameter, complete with 10-ft. ½-inch Hitch Rope, weight 50 lbs., price	$12.95
B-116	For use with rope up to ⅞-inch diameter, complete with 15-ft. ⅝-inch Hitch Rope, weight 80 lbs., price	16.95
B-117	For use with rope up to 1⅛-inch diameter, complete with 15-ft. 1-inch Hitch Rope weight 100 lbs., price	21.95



TWIN ROOT HOOK

Designed for use in clearing land of land stumps, stool grubs, roots and underground growths, where it is not possible to hitch to with the pull rope. This design is peculiarly adapted for underground growths such as mesquite, sage brush and willow bunches. Made of best cast steel. Weight 80 lbs.

B-127 Twin Root Hook $18.95



ANCHOR ROPES

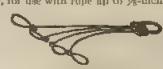
For anchoring machine to a tree, stump or to the ground, allowing the team to work between the machine and anchor. Each rope 25 feet long, made of our regular steel wire stump puller rope, and fitted with our interchangeable rope couplings.

B-118	½-inch Anchor Rope, weight 35 lbs., price	$ 7.35
B-119	⅝-inch Anchor Rope, weight 45 lbs., price	9.50
B-120	¾-inch Anchor Rope, weight 55 lbs., price	12.95
B-121	1-inch Anchor Rope, weight 70 lbs., price	15.00

ROPE SHORTENER

Our Rope Shortener, or take-up for slack rope, is designed for use where the pull rope is extra long. Takes a secure hold of the rope, and enables the operator to make a hitch at any point in the rope at the stump to be pulled.

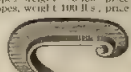
B-128	Rope Shortener, for use with rope up to ½-inch diameter, price	$3.30
B-129	Rope Shortener, for use with rope up to ⅝-inch diameter, price	4.75
B-130	Rope Shortener, for use with rope up to ⅞-inch diameter, price	5.45



CLUSTER ROPES

Designed for use in thick growths of trees, stumps, brush or grubs. Made of regular steel wire stump puller rope from ropes, each 10 feet long, and with rope hooks and babbitted securely in Cluster Anchor. A loop of same quality rope is secured to the anchor for attaching pull rope.

B-122	½-inch Cluster Ropes, weight 50 lbs. price	$15.85
B-123	⅝-inch Cluster Ropes, weight 70 lbs. price	18.85
B-124	¾ inch Cluster Ropes, weight 100 lbs., price	22.85



DOUBLE POINT ROOT HOOKS

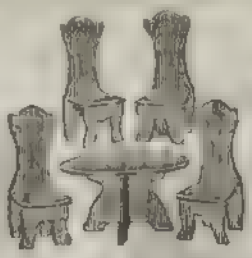
Made of best cast steel, and especially adapted where a light implement is required in pulling brush, grubs and roots. Made in two sizes. Weight 30 and 40 lbs.

B-125	Double Point Root Hook, price	$7.25
B-126	Double Point Root Hook, price	9.50

TOY DOLL FURNITURE SETS

Just how it is for which there has been a demand and a long felt want. We offer these four complete without [illegible]

Dining Set—6 in. table and 2 high back chairs, extra well made of clean wood natural finish; this set is very popular with the little folks and sells well wherever shown.
F1121—1 doz. sets in pkg. Doz. sets 87c



Dining Set—6 in. table and 4 [illegible] backed chairs, same as above except chairs extra well made of wood natural finish. This set is very popular with the little folks and sells well wherever shown.
F1122—1 doz. sets in pkg. Doz. sets $1.85

4 Style Asst.—One 5 pc. bed room set, 4 pc. dining room set, 3 pc. parlor set, [illegible] each securely fastened in a red lined box, set tied in brown mission.
F1123—Asstd. ¼ doz. sets in pkg. Doz. sets $4.25

3 Style Asst.—One 7 pc. bed room, 7 pc. dining room set, and 5 pc. parlor set, each set in display box, finished in brown.
F1125—Asstd. ½ doz. sets in pkg. Doz. sets $8.75

2 Style Asst.—One 11 pc. [illegible] room set and one 12 pc. parlor set, also set in box, each set packed in a display box resembling furnished room. Furniture of wood, brown mission finish.
F1124—Asstd. ¼ doz. sets in pkg. Doz. sets $15.00

TOY KITCHEN CABINETS

All wood construction superior in every respect to others on the market. Varnished double closet doors with [illegible] White enameled shelves [illegible] Numbers except [illegible]

F339—10x5¼ in. smooth finish lock corner cabinet open top with 1 drawer, 2 doors, stained oak finish. ½ doz. in carton.
Doz. $6.00

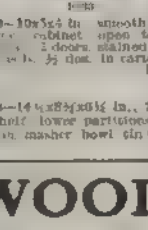
F341—[illegible] 2 shelf top, 2 solid panel doors, wood cups and saucers, rolling pin masher bowl tin utensils, with supply of groceries. ½ doz. in carton. Doz. $8.50

STAR VALUE

F338—17x11x5¼ in. double shelf with extending cane fiber shelf, parts nested, lower section, 4 white panel free swinging doors, extension top, wood cup and saucer, rolling pin masher and bowl, grater sauce pan scoop, etc., large supply grocery pkgs. 2 in carton.
Each $1.95

F340—19½x12x7⅝ in. shelf top [illegible] shelf with fancy extended edges, 4 free swinging doors, [illegible] panel doors, wood cups and saucers, rolling pin, masher and bowl, grater sauce pan scoop, etc., large supply grocery pkgs. 1 in carton.
Each $2.50

F340—22 3/4x14½x8 in. 3 shelf top extended center shelf with fancy edges, 4 section lower partition, 4 extra large low panel free swinging doors, wood cups and saucers, rolling pin, masher and bowl, grater plates, scoop, skillet, etc., large supply groceries. 1 in carton.
Each $3.00



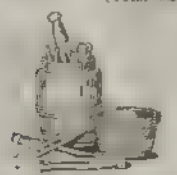
F384—14x8¾x6½ in., 2 shelf top, 2 solid panel doors, extended lower shelf, lower partitions with panel doors, wood cups and saucers, rolling pin, masher bowl, tin utensils, with supply of groceries. [illegible]
Total $5.80 Each $1.35

WOOD TOYS FOR THE LITTLE HOUSEKEEPERS

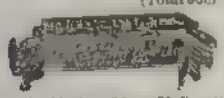
Very popular numbers that sell well throughout the year. There is also always an unusually large demand during the Holidays. These interesting and pleasing toys go fast. Because of the popular prices and exactness in construction

LAUNDRY TOYS

Clothes Pins in Bag—Nine 2½ in. pins in muslin bag, stenciled for [illegible]
F3688—3 doz. bags in pkg. Doz. 43c (Total 43c)



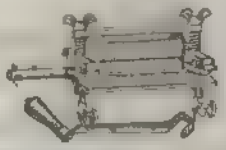
Clothes Pins in Barrel—4½ in. barrel, slotted top, 6 stained wood clothes pins.
F3685—2 doz. in box. Doz. 45c (Total 90c)



Dolly's Clothes Line—20 ft. waxed [illegible] cord, 2 pulleys, 6 clothes pins, 1 set in box.
F3687—1 doz. sets in pkg. Doz. sets 92c

Wash Set—Barrel with [illegible] tub and board, [illegible] for forming table. [illegible] doz. sets in carton.
Total $1.40 Doz. sets, 95c

"Sunny Monday" Wash Set—Complete set, 35¾ in. bright metal wash tub, riveted handles, 3 in wringer with stained handle. 7½ in. ironing board with folding cop per-ized wire supports, 4 in. corrugated wash board, 10 clothes pins, 9½ in. iron with stand, soap, clothes line on reel. Each set in part colored box with litho label.
F3670—3 sets in pkg. Set, 92c (Total $2.76)



Fan Wringer 13x5½ in., hardwood [illegible] finished frame, rubber covered [illegible] crank with wood grip, spring acting grips for attaching [illegible] all metal parts heavily nickeled. Each in box.
F1260—¼ doz. in pkg. Doz. $11.50

"WOLVERINE" LAUNDRY SETS

Best and most realistic toy laundry sets on the market.

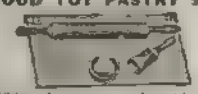
F1238—10 in. [illegible] enameled finish tub white inside, reinforced loop handles, 11 in. wood frame wash board, glass rubbing surface, folding clothes rack [illegible] 25½ in. [illegible] line, [illegible] sad iron, [illegible] clothes pins, [illegible] in box with [illegible] label.
Doz. sets $13.50

F1239—10 in. [illegible] enameled finish tub with [illegible] reinforced loop handles, [illegible] 11 in. wood frame wash board, glass rubbing surface, folding clothes rack [illegible] 25½ in. [illegible] line, [illegible] sad iron, [illegible] clothes pins, [illegible] in box with [illegible] label, galvanized wringer with 3 rubber rolls, full nickeled, wood grip handle. 1 set in box.
Set, $2.25

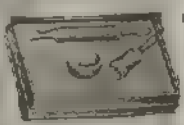
CHILDREN'S TOY BROOM

F242—30 in., good grade green broom corn, double sewed, striped painted [illegible] handle. [illegible] doz.
Doz. $2.25

WOOD TOY PASTRY SETS



F3686—[illegible] pcs. [illegible] doz. sets in pkg.
Temp. Out



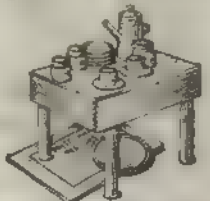
F3684—[illegible] pcs. [illegible] doz. sets in pkg.
95c

WOOD TOY DINNER SETS

F1872—4 smooth wood cups and saucers, sugar bowl and large tea pot with removable cover, 5¾x4 inching cover box with legs for forming table. 2 doz. sets in pkg. (Total $1.90) Doz. sets 95c

TOY COFFEE MILL

F2012—[illegible] high 3¾" varnished walnut wood box, silk metal removable drawer front, hopper and handle. 1 doz. in box.
Doz. $2.25



F3859—6 [illegible] wood sugar bowl tray, [illegible] with [illegible] cover, spoon, 7 cups and saucers, [illegible] cover box with [illegible] for forming table. 1 doz. sets in pkg.
Doz. sets, $2.25

WOOD TOY HOUSEHOLD SETS

F3684—3¼x3¼ in. pastry board, rolling pin, potato masher and [illegible] spice or [illegible] shaker, 5 [illegible] dining tray with [illegible] forming table. [illegible] doz. sets in carton.
Temp. Out

F3685—Large tub, wash board, wringer, iron, ironing board, 3 sad irons, clothes pins, masher and bowl, refrigerator, [illegible] and sugar [illegible] cups and saucers, sugar [illegible] cover box with legs for forming table. 1 doz. sets in pkg.
Doz. sets, $2.25

JUVENILE FURNITURE BIG VARIETY

Exact duplications of the full size kind. All are high grade and dependable, made by reliable manufacturers. These numbers appeal strongly to the "kiddies" because they have been selected by experts who know their desires. There has never been enough juvenile furniture to go around. Buy now.

CHILDREN'S WOOD CHAIRS AND ROCKERS

Painted bright red, varnished and striped, well made and finished, each bdl. wrapped in heavy paper

F640

F641

Square Back—Ht. 15 in., seat 8½x8, ht. from floor 7½ in. ½ doz. in bdl., 8 lbs.
F640—Chair ..... Doz. $3.40
F641—Rocker ..... " 3.75

F644

F645

Square Back—Ht. 19 in., seat 8x9, ht. from floor, 9 in. ½ doz. in bdl., 12 lbs.
F644—Chair ..... Doz. $6.90
F645—Rocker ..... " 7.80

F657

F658

Bow Back—Ht. 19 in., seat 9x9½, ht. from floor 8½ in. ½ doz. in bdl., 12 lbs.
F657—Chair ..... Doz. Temp. Out
F658—Rocker ..... " "

F646

F647

Square Back—Ht. 22 in., seat 10x10, ht. from floor 9½ in. ½ doz. in bdl., 16 lbs.
F646—Chair ..... Doz Temp. Out
F647—Rocker ..... " "

F659

F660

Bow Back—Ht. 22 in., seat 10x10, ht. from floor 10 in. ½ doz. in bdl., 15 lbs.
F659—Chair ..... Doz. Temp. Out
F660—Rocker ..... " "

F661

F662

Saw Back—Ht. 22 in., seat 11x11, ht. from floor 10 in. ½ doz. in bdl., 19 lbs.
F661—Chair ..... Doz. $9.80
F662—Rocker ..... " 10.80

F645

F649

Square Back—Ht. 22 in., seat 11x11, ht. from floor 10 in. ½ doz. in bdl., 7 lbs.
F648—Arm Chair ..... Doz. Temp. Out
F649—Arm Rocker ..... " "

F663

F664

Saw Back—Ht. 24 in., seat 12½x12, ht. from floor 10 in. ½ doz. in bdl., 9 lbs.
F663—Arm Chair ..... Doz. $15.55
F664—Arm Rocker ..... " 17.50

SQUARE BACK TOY CHAIRS AND ROCKERS

All solid hardwood. Packed in heavy wood crates, not bundles.

F628

F629

Painted Red and Varnished—Ht. 19 in., seat 9½x8¾. 1 doz. in crate 30 lbs.
F628—Chair ..... Doz. Out
F629—Rocker ..... " Out

CHILDREN'S LARGE SIZE ARM ROCKERS

F635

F636

F636—Ht. 24 in., seat 12½x12, ht. from floor 10½ in., hardwood natural finish seat, painted in black and red, best grade. ½ doz. in bdl., 14 lbs. Temp. Out

STAR VALUE

F635—Ht. 24 in., seat 12x12, ht. from floor 10½ in., hardwood glost finish. ½ doz. in bdl., 12 lbs. Doz **$16.25**

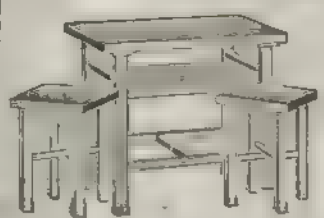
FULL SIZE BOW BACK KINDERGARTEN CHAIRS

F682 F671

F682—Red painted, varnished and striped, ht. 23 in., seat 12x12, ht. from floor 14 in. ½ doz. in bdl., 8 lbs. Doz $15.90

F671—Red painted, varnished and striped, ht. 23 in., seat 13x13, ht. from floor 14 in., ½ doz. in bdl., 10 lbs. Doz $16.50

JUVENILE 3 PC. TEA TABLE AND STOOL SET



F680—18½x20x13¾ table, two 13½x8¼ stools, made of heavy birch and maple, natural finish, stools slide into grooves under tables' top when not in use, strongly reinforced. 2 sets in crate, 40 lbs.
Set 3 pcs. $4.25
Total $8.50

JUVENILE WIRE FURNITURE

Very strong and substantial, practically indestructible. Table tops and chair seats 5 ply veneer

F745

F746

Chair—Seat diam. 10 in., ht. 21 in., ht. seat from floor 10½ in., oxidized brass finish, steel wire base and back.
F745—2 in bdl., 11 lbs., Each, $1.80
(Total $3.50)

Table—Top 9x16, ht. 17¾ in., oxidized brass finish, steel wire base, oak finish top.
F746—2 in pkg., 14 lbs. Each $3.25
Total $6.50

JUVENILE 5 PC. TABLE AND CHAIR SET

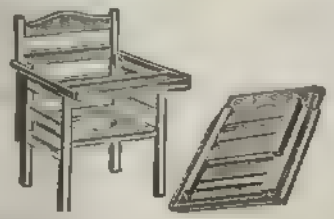
White enamel finish, 2 seat chairs, table 24x24 in., top ht. 20 in., chair ht. 23 in., seat 10x10 in. 1 set in crate.
F705—Floral decorations on table top and chair seats.
SET 5 pcs. $17.00
F705—Hand painted blue hand scrolls on table edge and chair seats, animal designs on table top and chair backs.
SET 5 pcs. $18.50

CHILDREN'S WHITE ENAMELED NURSERY CHAIR

F625—Ht. 24 in., seat 11x12 in., ht. from floor, 9 in., white enameled wood with swinging table or play tray. ½ doz. in bdl., 8 lbs.
Each, $2.15

FOLDING NURSERY CHAIR

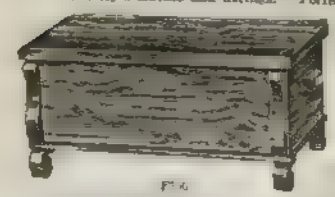
Made of hard wood exceptionally strong and durable



F633—20½ in. high, seat 11½x11¾ in., height of seat from floor 8¾ in., swinging tray, natural finish, when folded flat measures 21x14x3¾ in. 2 in crate, 10 lbs.
(Total $6.00) Each $3.00

MINIATURE CEDAR CHESTS

For dolly's clothes and fittings. Perfect duplicates of the large size chests


F750

F751

F752

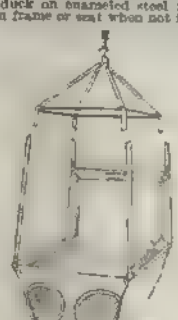
Genuine cedar, clean smooth finish, final coat of varnish brings out beautiful grains, bound with copper straps and studding, all with wood lifting grips, brass hinges and adjustable catch for holding cover in upright position when open, fancy fitted edge and legs.

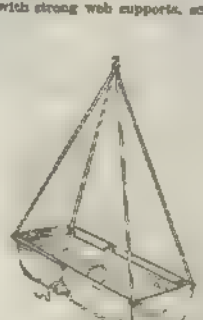
F750—18x9x9½. 1 in carton .. Each, $3.95
F751—18½x9½x8¾, extension cover, fancy turned legs. 1 in carton . Each, $4.65
F752—18¼x9¼x8¾, extension cover, massive square corners, turned legs, copper bands. 1 in carton ..... Each $6.50

ROCK-A-BYE BABY SWINGS

Heavy white washable duck on enameled steel frame with strong web supports, screw eyes. Can be folded flat on frame or seat when not in use

F3681


F3682


F3683

Swing
F3681—½ doz. in pkg ..... Doz. $9.75

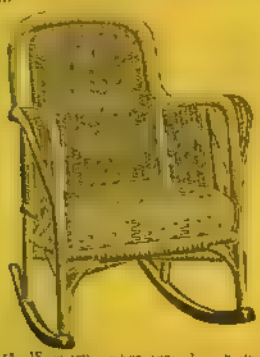
Swing With Head Rest—
F3682—½ doz. in pkg ..... Doz. $19.00

Swing and Bed—Can be converted from bed to swing by sliding rod from end of frame to the center.
F3683—½ doz. in pkg . Doz $21.00

STIMULATORS

PLAIN FIBER ROCKERS

People are everywhere demanding fiber furniture. Are you in a position to satisfy them?



P1845 Wicker rocker, seat 18x20 in. Back 30 in. high. Weight 30 lbs. Each **$11.25**

P1846 Wicker arm rocker, seat 20x20 in. Back 30 in. high. Weight 35 lbs. Each **$7.30**

TEA WAGON

The demand for this practical household item is steadily growing greater.

P1498 Top 24x16 in., mahogany glass bottom, rubber tired wheels. Each **$9.75**

WHITE OAK BUFFETS

Expertly constructed. The beauty of design and finish is very appealing.

Special white oak buffet 54 in. long, French plate mirror. Top has new style colonial effect. Large linen drawer, china cupboard, large and small drawer in base. Top 20 in. deep, base 18 in. deep. Each

P8070 Golden
P8080 Fumed **$61.50**

TENNESSEE RED CEDAR CHESTS

Cedar chests of fine quality are always in demand. Our prices are extremely low.

Trimmed with cedar molding on front panel in scroll and diamond design, reinforced corner construction inside dust rail on lid. Weight 30 lbs.

P8713—Height 36 in., width 20 in. Each **$19.75**

Aromatic Tennessee red cedar. Very thick bottom and top. Hardwood frame. Dovetailed corners. Reinforced front. Hardware.

	Length	Depth	Width	Weight	
P8978—42 in.	20½ in.	19 in.	35 lbs.	Each	**$27.50**
P8979—44 in.	20½ in.	21 in.	100 lbs.	Each	**31.75**

"KITCHEN QUEEN" KITCHEN CABINET

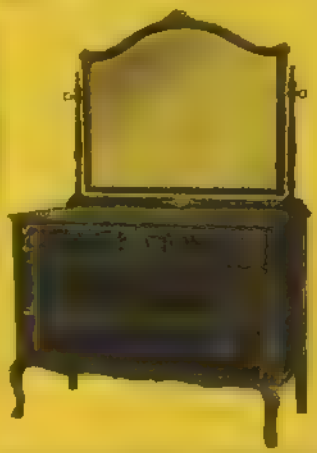
You will find it exceedingly difficult to duplicate this value on today's market.

MATERIAL—Solid white oak.
FINISH—Golden oak.
SIZE—
DESCRIPTION—Metal base box shape with flour sifter top. Large
Top 25 in.
EQUIPMENT—4 glass jars with metal tops, glass sugar container with metal top, 1 aluminum flour sifter.

P8607—Aluminum enamelware. Each **$32.00**
P8608—Large size white porcelain enamel. Each **39.00**

"QUEEN ANNE" DRESSER

This design is certain to appeal to your trade.

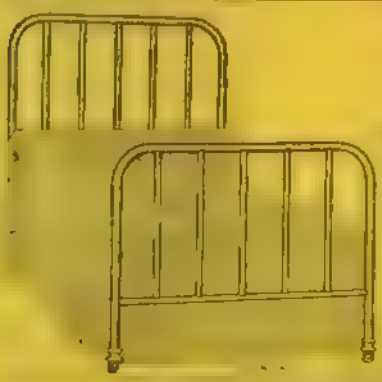


P8003 60in. ivory enamel finish on mahogany veneers, 24x50 in. mirror 8x30 in. Large and 2 small drawers, fumed Standards. Crated 200 lbs. Each, **$78.00**

GET IN RIGHT WITH YOUR TRADE. Write for our FREE booklet "WILL YOU FIGHT?" It will tell you how.

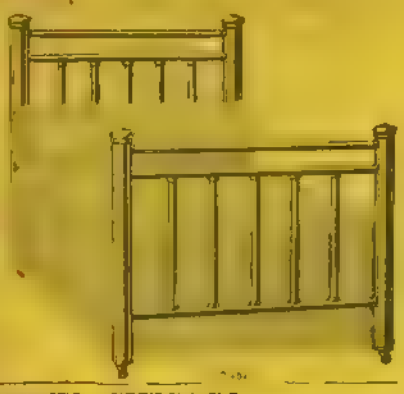
CHILLESS CONTINUOUS POST METAL BEDS

Popular selling style that has always proven a big seller. At this price it will be exceedingly difficult to equal this merchandise.



Heavy continuous posts and fillers. Height of foot 37 in. Height of head 52 in. Filling rods are 1 in. apart. Furnished with regular rail braces and slats. Finished in white enamel or Vernis Martin.

4½ ft. Wide—65 lbs.		5 ft. Wide—75 lbs.	
P1501 White	Each	P1503 White	Each
P1502 Vernis Martin	**$10.25**	P1504 Vernis Martin	**$10.25**



2 IN. STRAIGHT POST BRASS BED

Here is a very unusual profit opportunity for you.

P9787 2 in. post bed, 60 in. foot 54 in. head 4½ ft. wide ⅝ in. fillers, satin finish, lacquered with "Damard" lacquer. Furnished with regular rail braces and slats. Each **$14.75**

AUTO SUPPLIES

Note—State year, make and model of car if in doubt as to proper lens size

"WIZARD" WIND-SHIELD SPOTLIGHT

4K3332—6 volt, 5 amp. oval black enameled finish, quick adjustable focus reflector, 8 inch cable and plug for connecting with dash switch. Each $2.55

"PATHFINDER" WINDSHIELD SPOTLIGHT

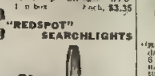
4K3316—Black enamel finish, arms, yoke, pivot brass plated and screws chromium plated, 8 inch cable and switch, 3 in diameter reflector, 1 in lamp socket, 1 in bracket. Each $5.95

"SENTINEL" WIND-SHIELD SPOTLIGHT

Embodies all convenient features in a light for motor cars. Has 8 inch cable with switch and plug for connecting with dash switch. Has 3 in. diameter reflector, 1 in. lamp socket, 1 in. bracket for attaching to windshield post with 1 in. thumb screw. Has 3 inch ball and socket joint. Finished in black enamel, 1 in box.

4K3870—Black enamel finish ..... Each $2.95
4K3871 Black enamel finish ..... Each, $2.85

"REDSPOT" SEARCHLIGHTS



Two lights in one. Red for danger, white for light. Bulb and color of light is instantly focused by turning knob on handle. parabolic reflector made of brass—heavily silver plated highly polished 7 inch fitting bezel and glass lens with rubber gasket, weather proof, dust proof and rattle-less. Universal bracket with tubercised smooth working ratchet ..... with adjusting screw. Heavy gauge steel shell, baked on enamel, will not rust. 1 in pkg

4K3682—(Mfrs. No. 1610). 6½ in. mirror Each, $5.75
4K3683—(Mfrs. No. 1622) 7 in. mirror... Each, $7.10

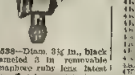
STEWART V-RAY WINDSHIELD SPOTLIGHT

4K3331—6 in curved lens. Black enamel, 3½ in. reducing mirror, lever switch, 3 point suspension bracket, silver plated reflector, nitrogen bulb connected with electric cord 1 in box. Each $4.20

The pages "FOR FORD CARS" include every accessory that is popular with the Ford car owner. It will pay you to look them over carefully and take advantage of what they offer.

ELECTRIC TAIL LAMP

For Regular Props



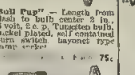
4K4338—Diam. 3¾ in., black enameled 3 in removable semaphore ruby lens. Latest ..... Tail lamp bulb with ..... white wire lens for illuminating license number 1 in box. Each 60c

ELECTRIC HEADLAMP

4K4335—10 in diam. black and nickel finish, body drawn from one piece of heavy steel 7/8 in. between prong outside focusing of bulb and station- ..... lamp dust and rattle-proof nickel plated glass fastened ..... proof $5.95

DASH LAMPS

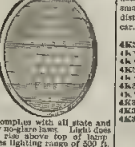
"Bull Pup"—Length from dial to bulb, center 3 in., 6 volt, S. C. P. Tungsten bulb, nickel plated, self contained turn switch bayonet type lamp socket 75c



"Bull Dog"—6 volt, S. C. P. nickel plated, self contained turn switch bayonet type lamp socket, tungsten bulb, length from dial to bulb center 2 in.

4K4068—1 in box. Each, 75c

CORNING CONAPHORES



Complies with all state and city no-glare laws. Light does not rise above top of lamp gives lighting range of 200 ft. with standard 21 c. p. bulb ..... Lens of clear glass ..... Pr $1.80 ..... Lens of Amber Yellow Tint ..... Pr $2.25

"MORE LITE" AUTO LENSES

Approved by the state of New Jersey where Headlight laws are strict. Throws diffused and concentrated beam shakes ..... angle driving ..... using ..... socket, cuts through fog drives many ..... using ..... 1 pr ..... action

4K4325 ..... Pr
4K4326 ..... Pr $1.00
4K4327 ..... Pr
4K4328 ..... Pr $1.45
4K4329 ..... Pr $1.30

"VIOLET RAY" LENSES

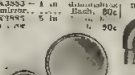
Blue glass, absorbs all glare rays, excellent driving light meets requirements of every state, black visor prevents dangerous backward ..... smart design and color gives a distinctive appearance to the car. 1 pr. in carton

4K3850—3 in.
4K3851 ..... } Pr $2.25
4K3852 ..... } Less of 25 or more
4K3853 ..... } Pr $1.80
4K3854 ..... } Less of 1 doz
4K3855—8½ ..... } Pr $2.00
4K3856 ..... }
4K3857—9½
4K3858—9½
4K3859—9½

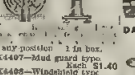
MIRROSCOPES

Black enamelled nickel trim, clamps on windshield rod, adjustable to any position 1 in box with parts.

4K3882—4 in. ..... mirror. ..... Each, 80c
4K3883—5 in. ..... Each, 90c



TROUBLE LAMP

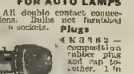


4K4326—6 volt, S. C. P. black enameled handle solid brass, highly polished nickel ..... lamp ..... cable hook for ..... 1 in box. Each 89c

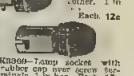
PLUGS AND SOCKETS FOR AUTO LAMPS

All double contact connections. Bulbs not furnished in sockets.

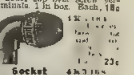
Plugs



4K3365—composition rubber plug and cap, to ..... 1 in Each, 12c



4K3366—7-amp socket with rubber cap over screw ..... minals 1 in box. Each, 18c



Socket

4K3 ..... 1 in box. Each, 14c

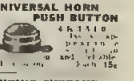
DASH BOARD LIGHT SWITCHES

4K3711 4K3712

Highly nickel plated used on Ford lighting outfits and for other head side and tail lights 1 in box.

4K3711—Single light switch. Each 30c
4K3712—2 gang switch 89c
4K3713—3 gang switch 89c

UNIVERSAL HORN PUSH BUTTON



4K ..... 1 in box. Each 15c

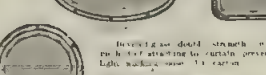
"CONNECTICUT" LIGHTING SWITCHES

10 volt, 10 amps black enameled dash plate, nickel plated push button switch, with screws for attaching 1 in box

4K3818 4K3820 4K3821

4K3819—Single switch ..... Each, 34c
4K3820—2 gang switch 68c
4K3821—3 gang switch 98c

GLASS CURTAIN LIGHTS



4K3714

In clear glass, dull ..... nickeled frame. Now 5 in ..... attaching to curtain preventing ..... and window. Light ..... 1 in carton

4K3714 ..... Each $1.75
4K3715 ..... 2.35
4K3716 ..... 2.75
4K3717—same 3.45
4K3718 Size 8x20 in. 6.00

HOWE light

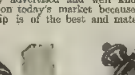
Widely advertised and well known throughout the country. The most popular and reliable searchlights on today's market because they embody the latest features of successful auto lighting. Workmanship is of the best and materials unexcelled for servi ... Howe sure lights mean satisfied customers

No. 13 Junior Searchlight—Single shell, Howe spring control, bracket can also be used as a trouble lamp, face of 6 in. diam., 6¼ in deep convex lens, off and on connection switch, National Mazda bulb.

4K3635—1 in box. Each, **$4.10**

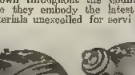
No. 14 Searchlight—Double ..... shell, Howe spring control ..... bracket can also be used as a trouble lamp ..... face of 6 in. diam., 6¼ in deep convex lens, off and on connection switch, National Mazda bulb, rear end ..... mirror, heavy convex plate lens.

4K3637—1 in box. Each **$9.00**



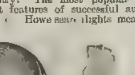
No. 5 Searchlight—Can also be used as a trouble lamp. Face 6 in. diam. 6¼ in deep. Howe spring controlled bracket double shell torpedo body, on and off switch, National Mazda Nitrogen bulb, exterior focusing device, 4 in., rear view mirror, baked on black enamel body

4K3636—1 in box Each **$5.60**



No. 9 Searchlight—Can also be used as a trouble lamp. Face 7¾ in. diam., 7¾ in. deep. Howe spring controlled bracket double shell torpedo body, on and off switch, National Mazda Nitrogen bulb, exterior focusing device, 4 in., rear view mirror, baked on black enamel body

4K3635—1 in box. Each **$5.95**



Safety Tail Light — Combination rear end white searchlight and ..... lar red tail light. Makes night driving safe. White searchlight controlled from ..... switch ..... same as regular tail light. Sheet ..... body. ..... reflector ..... lens ..... wing ..... tions for ..... 1 in box.

4K3639—1 in box. Each **$3.35**

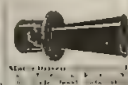
AUTO SUPPLIES

KLAXON All black enamel, guaranteed quality

"The Public Safety Signal"

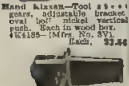
10% discount allowed on orders totaling $30.00 or more of one or assorted styles of Klaxon horns

Hand Klaxon—Foot pedal gears, adjustable bracket, oval bell, nickel vertical stem. Each in wood box.
4K4185—(Mfrs. No. 3V).
Each, $2.66



Motor Driven—Mfrs. No. 50 separate horn and

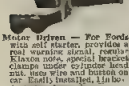
4K4188—2 in. bx. Ea. $22.50



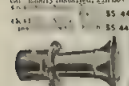
Motor Driven — For Fords with self starter, provides a loud warning signal, resembles Klaxon note, special bracket clamps under cylinder head and uses wire and button on car. Easily installed. 1 in box

4K4187—(Mfrs. No. 50). Each $5.44

4K4188—(Mfrs. No. 50). Each $5.44

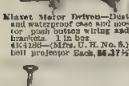


Klaxon Motor Driven—Dust and waterproof case and motor push button wiring and brackets. 1 in box.
4K4186—(Mfrs. U. H. No. 8.) Less projector Each, $6.37½



"STEWART" HAND ACTUATED AUTO HORNS

4K4561—Hand actuated, 8½ in. black finish, mounting cut hardened gears, with ball and roller bearings, swivel bracket, nickel trumpet horn always points straight ahead. Complete with bracket. 1 in case.
Each, $3.16

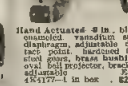


CARFORD ACTUATED AUTO HORN

4K3986—Handsomely beautifully finished and latest design. A horn that is built to stand knocks and hard usage. 1 in carton.
Each, $1.85

"TOURIST" HORNS

Hand Actuated 8 in., black enameled, vanadium steel diaphragm, adjustable contact point, hardened tool steel gears, brass bushing, oval bell projector, brackets adjustable Each
4K4177—1 in box . $2.10



Motor Driven—8½ in., black finish "Underwood" type, reg. firing only 6 volts, a saving on batteries, high grade motor vanadium diaphragm, tool steel gears, adjusts & contact point. 1 in box Ea. $3.75

MOTOR DRIVEN AUTO HORN

4K4192—1 in. motor horn enamel

1 in box $2.75

4K4297—6 volt, black enamel motor case and phono nickel bell, guaranteed not to stick, hard drawn steel

box . . . . . Each $3.85

"LIBERTY" SIREN

4K3970 — Attaches to any car by drilling hole in exhaust manifold, gives a melodious warning note by suction cord at dash economical because it requires no batteries. Each in box with directions
Each, $2.40

"BUELL" EXPLOSION WHISTLE

4K4376—Nickel plated

box . . . . . Each $3.85

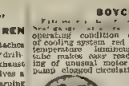
"UNIVERSAL" AMMETER

"The Recognized Standard"

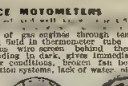
4K5026—Flush Type. Black finish, dull polished, can be used in any car, any type of system or any voltage system. An instrument of quality. Each in box with bolts and nuts to attach Each, $2.75

BOYCE MOTOMETERS

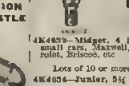
The Boyce Motometer indicates the operating condition of gas engines through temperature of cooling system red field in thermometer tube indicates temperature luminous wire screen behind thermometer tube makes easy reading in dark, gives immediate warning of unusual motor conditions, broken fan belt, water pump, clogged circulation systems, lack of water, oil, etc.



4K4679—Midget, 4 in. for small cars, Maxwell, Chevrolet, Brisco, etc Each
Lots of 10 or more Each
4K4684—Junior, 5½ in., for medium size cars Each, $2.75
Lots of 10 or more, Each, $3.50



4K4683—Special Ford Model, 4 in., includes black rubber cap of highest grade Each
Each $2.47
Lots of 10 or more $2.25

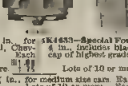


4K4685 Universal 5½ in.

Each $5.25

4K4686 Standard

Each $7.50



Each $7.00

NEVILLE "MORE ROOM" 17 IN. STEERING WHEEL

4K3967—With slight pressure

ables to slide this wheel up and out of the way when the wheel is in use

minum solder corrugated rim beautifully finished throughout. Keyed and bored

car to wheel it is to go attached. 1 in carton.

Lots of 1 to 6 Each $6.63
6 to 12 $ 6.29

BUMPERS

UNIVERSAL, LYON AND HARTFORD

Popular and well known brands that are used by discerning car owners easily made because their worth and dependability are well established in today's market. The extensive showing offers a selection that is first in quality and workmanship and low in price

UNIVERSAL "HOOK-ON" AUTO BUMPERS

Adjustable heavy malleable iron brackets fit any and quickly attached

Channel Bar Bumpers—Designed especially for cars with mud apron and fenders extending

Complete with attachments carton.

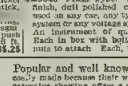
4K9705—Black Each, $4.00
4K9706—Nickel . . $ 6.50

Channel Bar Bumpers

Each, $6.00
$ 8.50

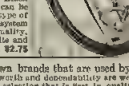
Channel Bar Bumpers—Steel 1¼ in. cold drawn steel bar, heavy malleable brackets, clamp rigidly to the car frame without any mechanical change. Will fit any car having projecting frame members, complete with bolts for attaching 1 in carton.

4K6003—Black . . Each, $6.90
4K5663 Nickel . . . $ 7.40



Bumper Brackets—Same as "hook-on" channel bumper and attach to the same cars without any drilling or mechanical change. 1¼ x 1¼ x 60 drawn steel bar Complete with attaching bolts. Will fit any car having projecting frame members. 1 in carton

4K5659—Black Each, $6.10
4K5660—Nickel . . . . . $ 6.90

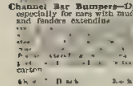


Spring Bar Bumpers—Brackets same as "hook-on" channel bumper and fit on the same cars, 2x1x300 in. best tempered spring steel bar. Brackets have swivel at outer end to take up side thrust. Will fit any car having projecting frame members. Complete with attaching bolts. 1 in carton

4K5661—Black Each $8.25
4K5662—Nickel 9.50

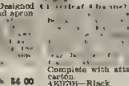
"LYON" SPRING BUMPERS

The largest selling auto bumper on the market, extensively advertised has established an unprecedented record for sales and unequaled record for efficiency. (Additional 5% discount on orders for 12 or more assorted bumpers

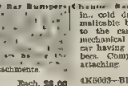


4K9772

Front Bumpers—For Chevrolet 490 Special type fits all model

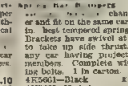


Front Bumpers—"Three-Way Attachment," ¾ in. reinforced front, fits 90% of cars all except Ford Chevrolet, Franklins Saxons and cars with Gabriel snubbers and Hartford shock absorbers. 1 in box, 53 lbs



Rear Bumpers—Frame clamp bumpers for all cars having frame extensions in rear. 1 in box, 45 lbs

Mfrs. 53 . . . . . Each $10.33

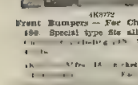


Front Bumpers—"Spring Clamp," for all cars having ¾ elliptic springs, guaranteed not to work

Each $10.33

"HARTFORD" SPRING BUMPERS

The following numbers can be had in all nickel with an additional cost of $1.00



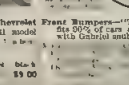
The latest and most modern bumper, made of

an hour, collision only causes a recoil of a few inches, consequently unbreakable. STYLE IV. MODEL and YEAR of CAR.

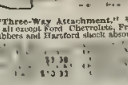
Each
4K3986—For Ford cars (black enamel.) $7.33
4K4687—For other cars (black enamel.) 9.00
4K3988—Black enamel & nickel 9.33

"UNIVERSAL" CHANNEL BAR ADJUSTABLE BUMPERS

Simple in construction so that brackets will fit any car having projecting frame members, thus obviating the handling of a great variety of special frame brackets to properly fit some makes of cars. "Universal" bumpers fit all standard cars.

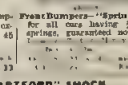


1¼ In. Channel Bar (black enamel) 48 in. long, cold drawn steel, 80 lbs. long, positive adjustment to any width between 56 and 80 inches, can be raised or lowered to any position, bracket is hooked to side of frame in a most secure manner Complete with attachments 1 in carton.
4K9702—Black enamel. . . Each. $5.75
4K9703—Nickel 6.10



2x1½ In. Channel Bar — Double shackle drawn steel, 80 lb. long, positive adjustment to any width between 56 and 80 inches, can be raised or lowered to any position, bracket is hooked to side of frame in a most secure manner Complete with attachments 1 in carton.
4K9702—Black enamel. . . Each. $5.75
4K9703—Nickel 6.10

"HARTFORD" SHOCK ABSORBERS



Makes Every Road a Boulevard

½ sets for front or rear

Each $9.02
$11.55

AUTOMOBILE HORNS

KLAXON

The Standard Warning Signal, The Note is Carried Far Ahead in the Country; You Get Instant Attention and Action in Town

The Long Note—the kind you use in the Country, is Clear, Bugle-like and Great Carrying Power. It is Heard Around Bends, Under Culverts, Over Hill. The Automobilist Ahead Hears it above his engine and the shifting of his gears. The Wagon Driver Ahead Hears it, above the rumble of his Wagon and the clatter of his horses' hoofs. With a Klaxon it is unnecessary to Slow Down and Wait for the Vehicles Ahead to Turn Out—Your Share of the Road is Ready when you get there.

The Short, Sharp Note—from a Light Touch to the Button—is called a "Tiger." In Town this is Enough. It is heard above the noise of traffic. It Penetrates the Thoughts of Careless, Absent-Minded Pedestrians. It can't go unheard. It can't be misunderstood. It's a True Warning.

KLAXON FINISHES

The Smart Finish is "KLAXON BLACK" Black Enamel throughout. It is not only the fashionable finish but the most practical as well—requires no polishing or attention.

ELECTRIC KLAXONS

The Electric Klaxons (Klaxon 29-L, Klaxon 12-L, Klaxon 6) are supplied complete, ready for installation—with ten feet of double insulated wire and push button matching finish of instrument. Electric Klaxons are regularly wound for 6 volts.

ELECTRIC

Each

No. 29-L—Projector 9½ in. Long; Bell 8x8½ in.; Length Overall, 12 in.; Height Overall, 10½ in. $30.00

One in a Box

Weight Each about 20 Lbs.

ELECTRIC

Constructed for Use Under Hood of Machine but can be Attached Outside of Car same as any other horn.

Each

No. 12-L—Projector 7½ in. Long; Bell 4⅝x4⅝ in.; Length Overall, 12½ in.; Height Overall, 6⅝ in. $15.50

One in a Box

Weight Each about 9½ Lbs.

ELECTRIC

Constructed for Use Under the Hood of the Machine. Attractive in Appearance and, while it is designed as an Underhood Horn, it can be Attached on Outside of Car like any other horn.

Each

No. 6—Projector 6 in. Long; Bell 5½x4 in.; Length Overall, 9½ in.; Height Overall, 5½ in. $8.50

One in a Box

Weight Each about 7 Lbs.

HAND

Horizontal Push Rod

A Slight Push Produces a Loud, Full, Clean and Penetrating Tone. Projector 5¼ in. Long; Bell 5½x4 in.; Length Overall, 10 in.; Height Overall, 5¾ in.

Each

No. 3—With Flat Bracket $4.75

Weight Each about 7 Lbs.

HAND

Vertical Push Rod

A Slight Push Produces a Loud, Full, Clean and Penetrating Tone. Projector 5¼ in. Long; Bell 5½x4 in.; Length Overall, 10 in.; Height Overall, 5¾ in.

Each

No. 3V—With Flat Bracket $4.75

Weight Each about 7 Lbs.

"FORD" ELECTRIC

Constructed for Use Under Hood of Machine, but can be Attached Outside of Car same as any other horn. Operates on 9 Volts or the Regular Ford Magneto.

Each

No. 5 . . . . . $7.25

One in a Box; Weight Each about 5 Lbs.

AERMORE EXHAUST HORN

The Standard Exhaust Signal; Warns without frightening; Easily Attached; No cost of operation; Nothing to get out of order

Built on the Pipe Organ Principle, each Tube gives a different note—when sounded together gives a Clear Musical Tone which is pleasing to the ear, at the same time producing an Effective Warning.

Operated by means of a Foot Pedal which closes the valve attached to rear of muffler; Each Horn furnished with complete equipment and Full Instructions for Installing.

Each

No. 1—For Cars of 40 to 60 H. P. $9 00

No. 2—For Cars of 25 to 40 H. P. 8 00

No. 3—For **Fords** and Cars of 20 to 25 H. P. 7.50

Valve Only—Any Style, Any Size. 1 50

Note: Be sure to specify desired Size and Style of Valve when ordering. No 1 and 2 will work satisfactorily Ahead of the Muffler on Fords and other light cars.

FRY PANS GRIDDLES AND HOLLOW WARE

A stock of these fry pans, griddles, etc—standard grade goods—means more business and better profits for merchants. Make a comparison of these values with those offered by others. Here are the lowest prevailing market prices. Order your complete requirements from Butler Brothers and save money on these big sellers.

"L & G" HEAVY 1 PIECE STEEL FRY PANS—Gun Metal Finish

SOLID SIZES

Guaranteed first quality 1 pc steel gun metal finish tin covered cool handle heavy stock manufacturer's name on handle 1 doz. in pkg.

Size	Top Diam.	Depth	$ Doz. lots Doz.	Doz.
1H3800—00	6 in	1¼ in	$1.08	$1.14
1H3802— 0	6 "	1½ "	1.80	2.00
1H3804— 1	8½ "	1½ "	2.05	2.15
1H3813 2	9¼ "	1¾ "	2.45	2.60
1H3823 3	10 "	1¾ "	2.75	2.90
1H3825 4	10½ "	2 "	2.95	3.10
1H3832 5	11 "	2 "	3.65	3.75
1H3837— 6	12 "	2¼ "	3.80	3.95

3 SIZE ASSORTMENT

1H7425 1 pc good quality standard wt. steel gun metal finish tin covered cool handle, manufacturer's name on handle. Assd. sizes as follows

		Retail Each	Retail Total
3 doz	No 00	$0.15	$4.50
2 "	0	.30	4.80
2 "	1	.55	6.60
	Total retail value, $14.40		

Assd. 6 doz. in case. (Total $9.00) Doz **$1.50**

3 SIZE ASSORTMENT

1H7441 Regular standard quality 1 pc steel gun metal finish cool handle manufacturer's name on handle, cleans easy, saves work. Assd. No 00 to No. 0 sizes.

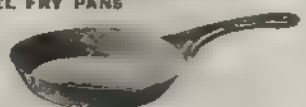
		Retail Each	Retail Total
1 doz	No 00	$0.15	$1.80
3 "	0	.30	4.80
1 "	1	.55	3.00
½ "	2	.70	1.70

		Retail Each	Retail Total
12 doz	No 3	$0.15	$2.10
2 "	4	.30	2.34
3 "	5	.45	1.95
4 "	6	.50	1.50

Total retail value $18.83

Assd. 6 doz. in case. Total $11.70 Doz **$1.95**

POLISHED STEEL FRY PANS



"Belmont" — Our own brand, guaranteed first quality, 1 pc steel polished inside tin covered cool handle heavy and well finished. 1 doz. in pkg.

Size	Diam.	Doz.	$ doz. lots Doz.
1H3776—00	6 in	$1.15	$1.20
1H3783 0	7 "	2.05	2.15
1H3787 1	8¼ "	2.15	2.25
1H3788— 2	9 "	2.75	2.90
1H3790 3	9½ "	2.95	3.10
1H3790—1	10 "	3.40	3.60
1H3793 5	11 "	3.80	4.00
1H3782—6	12 "	4.75	4.95

Genuine "Acme"—Made by N. Y. Stamping Co., Brooklyn, strictly first. highest grade steel polished inside, cool tin covered handle

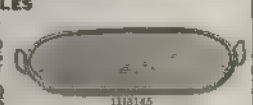
Size	Diam.	3 doz. lots Doz.	1 doz. lots Doz.
1H3179—00	6 in	$1.90	$1.95
1H3180— 0	7 "	2.70	2.80

Size	Diam.	3 doz. lots Doz.	½ doz. lots Doz.
1H3181— 2	9 in	$3.10	$3.15
1H3182— 3	9½ "	3.25	3.30
1H3183— 4	10½ "		3.50
1H3184 5	11 "		4.30

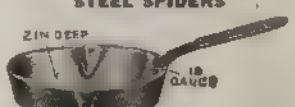
SOAPSTONE GRIDDLES

1H3144 Round 1 pc heavy metal rim handles ½ in. thick. Each $1.70
1 in pkg 1.65
Lots of 4.

1H3145—Oval 9x14 in., heavy metal rim handled ¾ in. thick. Each, $2.00
1 in pkg
Lots of 3 " 1.95

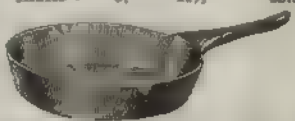


STEEL SPIDERS



"Belmont" — Deep 18 gauge, cold rolled steel polished inside ventilated tin covered handle 1 doz. lots

1H3140—Size 7, diam.	9 in.	Doz.	$3.75
1H3141 " 8	" 10½	"	4.75
1H3139— " 9,	" 11½	"	$5.50



STAR VALUE

"Hercules"—15 gauge, cold rolled steel, polished and lacquered inside, balance russeted finish. ½ doz. in bdl.

Size	Diam.	Depth	3 doz. lots Doz.	Doz.
1H3130	7 in	2 in		$6.25
1H3131—8	10 "	2¼ "		7.25
1H3132—9	11½ "	2½ "	Trim	

POPULAR SELLING HEAVY STEEL GRIDDLES

Standard 16 gauge heavy steel polished inside ventilated tin cool handle

	Size	Doz.
1H3838—	8, 11 in., ½ doz. lots	$3.60
1H3839—	" 9, 12 " ½ "	4.20

"Empire" Steel—Made by New York stamping Co., 16 gauge, heavy steel polished inside, ventilated tin cool handle

1H3133—11 in. ½ doz. in pkg. Doz $10.75

1H3134—Size 9, 12 in. ½ doz. in pkg. Doz $13.90

"GRISWOLD'S" HOLLOW WARE

Every hardware department should keep a complete stock of cast iron cooking utensils. Give this showing your most careful consideration

Cast Iron Skillets—Erie iron finish, inside ground and polished, double lip

Mfrs. No.	Diam.	Depth	Lbs. (each)	Lots of 6 Each	Lots of 2 Each
1H2936—6	8	2	2½	$0.80	$0.84
1H3939—6	9	2¼	3	.85	.90
1H [illegible]	9	2½	4	.92	.96
1H2881—8	10¾	2¾	4¼	.96	1.03
1H2861—9	11¾	2¾	5	1.25	1.35

Polished Skillets—Superior grade cast iron highly polished inside

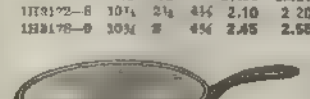
Mfrs. No.	Size	Lbs. (each)	Lots of 6 Each	Lots of 2 Each
1H3670—7	9¼x1¾	3	$0.86	$0.92
1H3671—8	10 x1¾	3½	.96	1.00
1H3672—9	11 x1¾	4½	1.15	1.20

Nickel Plated Skillets—Superior grade cast iron, highly polished inside

Mfrs. No.	Size	Lbs. (each)	Lots of 6 Each	Lots of 2 Each
1H3062—7	9¼x1¾	3	$1.75	$1.80
1H3063—8	10 x1¾	3½	1.90	2.00
1H3064—9	11 x1¾	4½	2.40	2.50

Nickeled Cast Iron Skillets—Highest grade cast iron, nickeled and polished

Mfrs. No.	Diam.	Depth	Lbs. (each)	Lots of 6 Each	Lots of 2 Each
1H3178—7	9¼	2¼	4	$1.96	$2.08
1H3122—8	10¼	2½	4½	2.10	2.20
1H3178—9	10¾	2	4¾	2.45	2.55



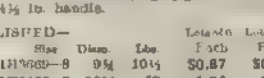
Cast Iron Griddles—Superior grade hollow cast iron raised rim, highly polished inside. 4½ lb. handle.

POLISHED—

Size	Diam.	Lbs.	Lots of 6 Each	Lots of 2 Each
1H3669—8	9¼	10½	$0.87	$0.90
1H3127—9	10¾	12	1.04	1.10

NICKEL PLATED—

Size	Diam.	Lbs.	Lots of 6 Each	Lots of 2 Each
1H3 [illegible]—8	10	5½	$1.72	$1.80
1H3 [illegible]—9	10¾	12	2.10	2.20

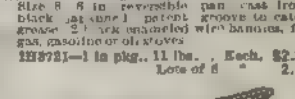


Cast Iron Griddles—Superior grade cast iron, highly polished inside. 1 in pkg

Size	Lbs.	Lots of 6 Each	Lots of 2 Each
1H3068—8, 9x10,	7½	$1.70	$1.80
1H3125—9, 10x21½,	10½	2.20	2.30

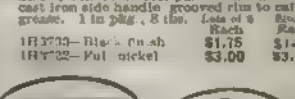
"American" High Style Waffle Iron—Size 8, 8 in. reversible pan cast iron, black japanned, patent groove to catch grease, 2 wire enameled wire handles, for gas, gasoline or oil stoves

1H3721—1 in pkg., 11 lbs., Each, $2.25
Lots of 6 " 2.15



"American" Low Style Waffle Irons—Size 8, 8 in. reversible pan 2 wire handles, cast iron side handle grooved rim to catch grease. 1 in pkg., 8 lbs. Lots of 6 Each, Each

1H3733—Black finish	$1.75	$1.85
1H3732—Full nickel	$3.00	$3.10



Flat Bottom Kettles—Bail, also tilting or side handle. 1 in pkg.

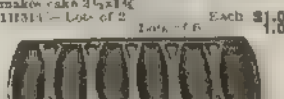
	Diam.	Depth	Wt. (each)	Each
1H2936—(Mfrs. 7),	8	6	6 lbs.	$2.20
1H2937 " 7),	10½	7	9½ "	3.15

Roasters or Dutch Ovens—With cover, steel bail 1 in pkg

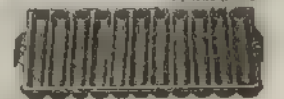
	Diam.	Depth	Wt. (each)	Each
1H3696—Mfrs. 8),	10½	8	9 lbs.	$3.10
1H2938—(" 9),	11	4½	10 "	3.50
1H2939—(" 10),	12	6	12½ "	4.10

Iron Gem Pans—(Mfrs. 10), 11 cup 10½x7½ make cake 3½x1¾

1H3814—Lots of 2 Each $1.05
Lots of 6 1.00



Bread Stick Pan (Mfrs. [illegible]), 12½x10¼ heavy cast iron, 12 sticks
1H3803—3 in pkg Each, 64c
(Total $ [illegible])



Bread Stick Pan—13¼x7¼ heavy cast iron, 11 round spaces.
1H3804—(Mfrs. 23)...Lots of 2, Ea., $1.05
" 6, 1.00

POPULAR PRICED WAFFLE IRONS

1H3139—Convenient to operate and clean, 7 in. pans separating at hinge, 1 pc black enameled wood bails. Lots of 2, Each, $1.50
" 6, 1.40

1H3804—Size 8, 7½ in. pans, black enameled wood handles, plain, well seasoned to do handy greaseless baking, grooved rim, 6 in pkg.
Each $1.85
Lots of 6 " 1.75

CLOTHES WRINGERS

The famous Horse Shoe brand product of the American Wringer Co. These wringers have a prestige that is generally recognized. Made of sound materials, well fin shed, guaranteed rolls will give long service and rel ve the user perfect satisfaction right

"Universal" Rolls warranted 3 year extra heavy ad family size wood frame steel pressure springs, adjustable galvanized turned rolls

1H2911—(Mfrs. 350). 10 in rolls, 1 in pkg., 21 lbs. Each $5.20
3 in case " 4.95

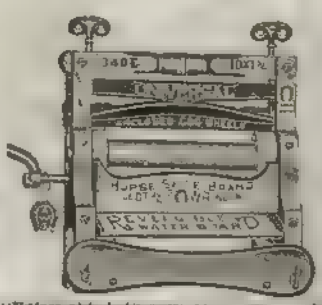
1H2912—(Mfrs. 351) 11 in rolls 1 in pkg 68 lbs Each $5.75
3 in case " 5.25

1H2913 (Mfrs 352) 12 in rolls 1 in pkg 3 lbs Each $5.85
3 in case " 5 60

"Royal" Rolls warranted 5 years improved guide board combination galvanized clamps fit any tub.

1H2914—(Mfrs. 500) 10 in. rolls, 1 in pkg 23 lbs Each $5.68
3 in case " 5.33

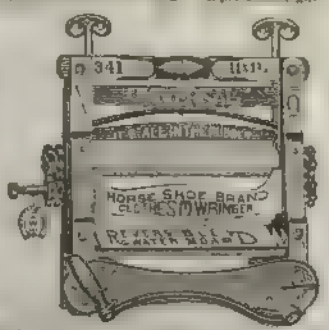
1H2915 (Mfrs 501) 11 in rolls 1 in pkg 3 lbs Each $5.75
3 in case " 5.50



"Universal" Rolls warranted 5 year wood frame steel pressure springs improved gears combination clamps reversible water board.

1H2985—(Mfrs. 340E). 10 in rolls, 1 in pkg 25 lbs Each $6.25
3 in case " 6.00

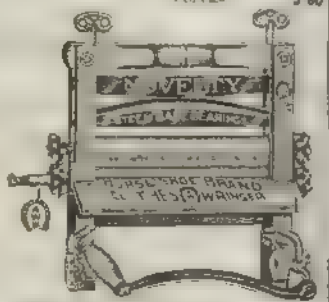
1H4481 Mfrs 341E 11 in roll, full ball bearing 1 in pkg 3 lbs Each, Temp Out
3 in case



"Universal" Mfrs 341 combination 11 in rolls warranted 3 years. Fit round or square tubs not over 2 in. thick

1H6—1 in pkg lbs Each. $6.68
3 in case, " 6.43

"Horseshoe" Wringers are nationally advertised



"Novelty" Ball-Bearing — Rolls warranted 3 years, family size, steel ball bearings, improved guide board.

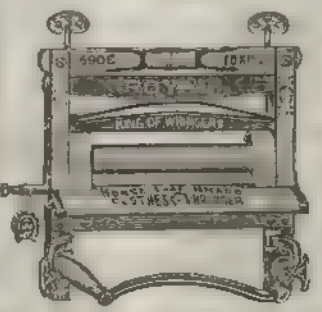
1H2904 (Mfrs. 500). 10 in. roll 1 in pkg., 21 lbs Each $6.58
3 in case " 5 33

1H4480 (Mfrs 501) 11 in rolls 1 in pkg 21 lbs. Each, $6.00
3 in case " 5 75

"Universal" Ball-Bearing — Rolls warranted 3 years, galvanized enclosed cog wheels galvanized clamps and thumb screws

1H2977—(Mfrs 380E), 10 in. rolls, 1 in pkg 24 lbs Each $6.75
3 in case " 5.50

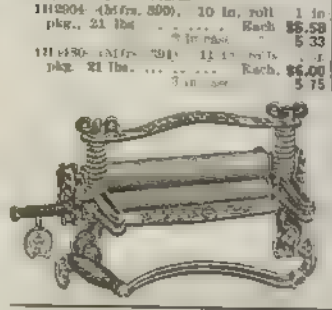
1H4482 Mfrs 381E., 11 in. rolls 1 in pkg., 24 lbs. Each, $6.08
3 in case, " 5.83



"Royal" Ball-Bearing Rolls warranted 5 years improved guide board, enclosed cogs, steel ball-bearing.

1H4478—(Mfrs. 590E) 10 in. rolls, 1 in pkg 22 lbs Each $6.10
3 in case, " 5.85

1H4479—(Mfrs 591E). 11 in rolls 1 in pkg., 32 lbs.
1 in case Temp Out

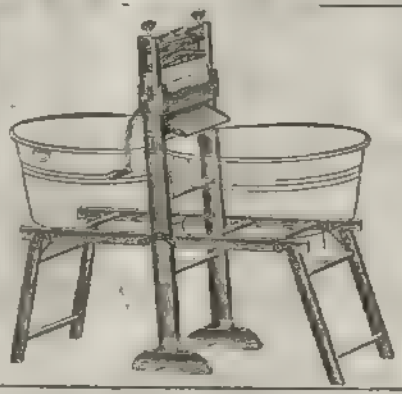


"Crescent"—(Mfrs 130) 10 in rolls warranted 1 year galvanized iron frame spiral pressure springs adjustable thumb nuts

1H3960 4 in pkg., 20 lbs Each $4.50
1 in case 4 25

"Relief" (Mfrs. 330) 10 in rolls, warranted 3 years, galvanized iron frame spiral pressure springs, adjustable thumb nuts, combination clamps fit any tub.

1H2908—1 in pkg 21 lbs
3 in case, Temp Out



"HORSESHOE" WRINGERS

Sold under the maker's name and trademark. Full warranty tag with each.

"HORSESHOE" BRAND FOLDING BENCH WRINGERS

STAR VALUE

Novelty wood frame bench [illegible] per pair, 14 in. cast braces, [illegible] 3 full size tubs [illegible] combination galvanized grade wringer [illegible] 3 years, steel pressed springs, adjustable thumb nuts, enclosed gears, reversible water board 1 in crate.

1H4483—(Mfrs. B30E 10 in rolls Each $8.50

1H4484—Mfrs B3[illegible] 11 in rolls, Temp, Out

1H4485—(Mfrs B31E) 11 in rolls, full ball-bearing. Temp, Out

CASH REGISTERS AND SAFES

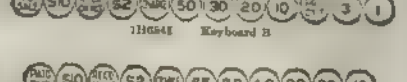
Guaranteed 2 years. Built o[illegible] be [illegible] perfect [illegible] style of [illegible] big or [illegible] of prices [illegible] for [illegible] own [illegible] Order

THE "AUDIT" CASH REGISTERS

1H8863 Keyboard K

1H6851 Keyboard I

1H6841 Keyboard B



1H6849 Keyboard D

1H6841 6849

This [illegible] machine [illegible] the [illegible] [illegible] [illegible]

"LADDIE" BOYS' BLOUSES

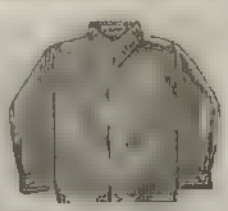
A brand of national reputation for quality and high grade workmanship. All [illegible] buttons, adjustable waist bands, lined pointed collars and cuffs with button. Each garment bears the brand label which makes selling very easy.

Sizes: 6 to 15 yrs. cut regular as your coat. SPECIFY SIZES

[illegible] Blue Chambray Long [illegible] Doz. $13.50

White Madras— [illegible] Doz. $13.50

Fine Count Percale [illegible] Doz. $13.50



Hillsboro Madras—Fancy stripings [illegible] Doz. $13.50

Standard Khaki Cloth [illegible] Doz. $13.50

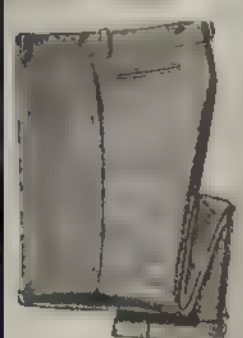
WORK TROUSERS

That represent the choice of the market's [illegible] Every garment is in excellent patterns combined with high [illegible] workmanship assure the utmost in service and satisfaction. Better values or a more profitable line to handle is difficult to find.

Note: Sold in any quantity or asst. of sizes. BE SURE TO SPECIFY SIZES

Size Scale for Men's Work Trousers

Waist	32	34	36	38	40	42
	28	30	30	32	34	36
Leg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	30	32	32	32	34	



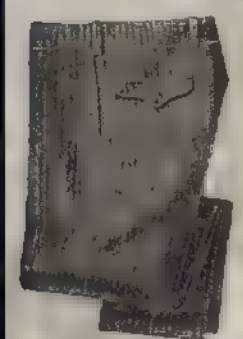
[illegible] Wt. Olive Khaki [illegible] Doz. $29.50 10 doz. lots, " 28.00

Youths Tan Khaki [illegible] wt. Govt. [illegible] 2 button taper hip pockets, [illegible] Sizes 4 to 12 in waist. Doz. $30.00 10 doz. lots, " 29.50

Striped Med. Gray Cotton Worsted [illegible] Doz. $32.00 10 doz. lots, " $1.25

Gray Striped Twill Heavy [illegible] Doz. $32.00 10 doz. lots, " 31.50

Cotton Worsted, Nap Rack Proof [illegible] Doz. $33.00 10 doz. lots, " 32.25



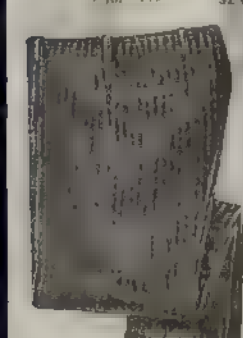
[illegible] Med. Gray Cotton Worsted [illegible] Doz. $33.00 10 doz. lots, " 32.00

Good Wt. Cotton Worsted [illegible] Doz. $33.00 10 doz. lots, " 32.25

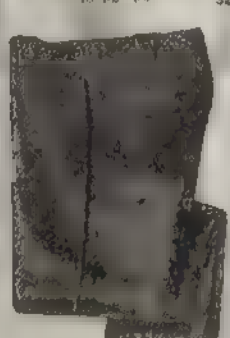
Med. Gray Cotton Worsted [illegible] Doz. $36.00 10 doz. lots, " 35.25

Med. Brown Khaki [illegible] Doz. $36.00 10 doz. lots, " 35.00

8 Shaft Drab Corduroy [illegible] Doz. $42.00 10 doz. lots, " 41.00



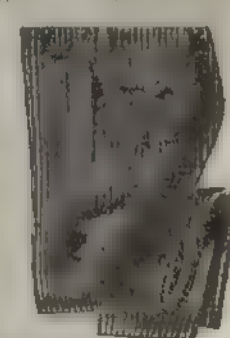
[illegible] Striped Heavy Cotton Worsted [illegible] Doz. $42.00 10 doz. lots, " 41.00



Wool [illegible] Cassimere [illegible] Doz. $45.00 10 doz. lots, " 44.00

Jefferson Woolens [illegible] Doz. $48.00 10 doz. lots, " 47.00

Dickey Kersey [illegible] Doz. $57.00 10 doz. lots, " 55.75



8 Shaft Drab Corduroy, 'Endurable' make [illegible] Doz. $67.50 10 doz. lots, " 66.00

[illegible] Striped Heavy Cotton Worsted

[illegible] Doz. $42.00

Wool [illegible] Cassimere

[illegible] Doz. $45.00 10 doz. lots, " 44.00

Jefferson Woolens [illegible]

Dickey Kersey [illegible]

8 Shaft Drab Corduroy, 'Endurable' make

8D2655—DK OXFORD

Doz. $57.00 10 doz. lots, " 55.75

8D2635—DRAB Doz. $67.50 10 doz. lots, " 66.00

OVERALLS & COATS STAPLE & FANCY

Carefully made of strong heavy wt. denims, "Stifel" drills and "Hickory" stripes. Band, railroad and suspender backs, all correctly sized and reinforced where necessa

IMPORTANT: [illegible] and so that we can serve others as well. We guarantee we are sending [illegible] SIZES

SIZE SCALE: Note: In the size scale 1, 2 and 3 indicate the correspond[illegible] as shown in the [illegible] sizes, [illegible] is and co[illegible] excepting [illegible] and [illegible] sizes as [illegible]

OVERALLS—(1) Open Stock.

Any quantity. Your own selection of sizes in either of the following scales and also in 38x34 or 40x33. SPECIFY SIZES.

OVERALLS—(2) Western Asst.

1 doz. in bdl, assted. to the following scale

Waist	32	34	36	38	40	42
	31	31	31	31	35	35
Leg		32	32	32		
		33	33			
			31			

OVERALLS—(3) Southern Asst.

1 doz. in bdl, assted. to the following scale

Waist	31	32	33	34	36	38
	31	31	33	33	34	35
Leg	33	33	34	34	35	
				35		

COATS—(1) Open Stock.

Any quantity. Your own selection of [illegible] 36 to 46 in. SPECIFY SIZES

COATS—(2) Regular Asst.

1 doz. in bdl, assted. sizes 36 to 44

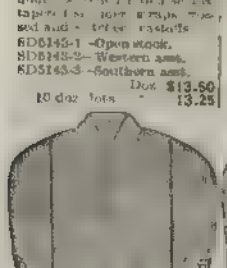
FANCY AND PLAIN BLUE DENIM OVERALLS AND COATS

Apron Overalls—Union made [illegible] 2 side [illegible] pockets, [illegible] and [illegible] front [illegible] watch pocket [illegible] ed [illegible] doubl[illegible] tapered [illegible] and made [illegible]
8D6145-1—Open stock.
8D6145-2—Western asst.
8D6145-3—Southern asst.
Doz. $13.50
10 doz. lots, " 13.25

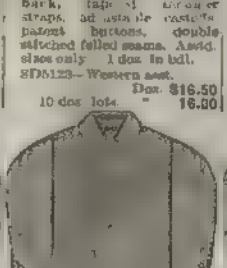
Apron Overalls—Union made [illegible] "Stifel" extra [illegible] indigo drill, [illegible] apron, 2 front [illegible] pockets, [illegible] rule at [illegible] watch pocket [illegible] faced side [illegible] counter[illegible] railroad back, tape [illegible] straps, adjustable [illegible] patent buttons, double stitched felled seams. Assid. sizes only. 1 doz. in bdl.
8D6123—Western asst.
Doz. $16.50
10 doz. lots, " 16.00

Apron Overalls—[illegible] made [illegible] "Stifel" extra [illegible] indigo denim, [illegible] stitched seams, apron [illegible] front [illegible] and [illegible] pockets, [illegible] rule at [illegible] watch pocket, [illegible] and [illegible] pencil pocket, [illegible] counter[illegible] railroad back, [illegible] tape [illegible] straps, [illegible] patent buttons, double stitched felled seams. Assid. sizes only. 1 doz. in bdl.
8D6063-1—Open stock
8D6063-2—Western asst
8D6063-3—Southern asst
Doz. $21.00
10 doz. lots, " 20.50

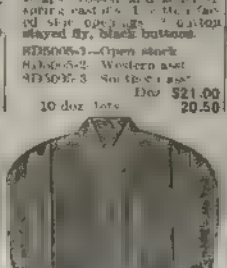
Apron Overalls—[illegible] made [illegible] "Stifel" extra [illegible] indigo denim, [illegible] sewn with [illegible] over [illegible] stitched seams, [illegible] front [illegible] and [illegible] pockets, [illegible] rule at [illegible] watch pocket, [illegible] faced [illegible] ing [illegible] and [illegible] front [illegible] openings, [illegible] and [illegible] on watch & pencil pocket, 3 [illegible] stayed fly, [illegible] faced side openings, 2 [illegible] and [illegible] on back & pencil pocket, [illegible] railroad back, [illegible] apered shape of [illegible] tapered and stayed, [illegible] spring [illegible] 1 [illegible] faced side openings, 2 [illegible] stayed fly, black buttons.
8D6063-1—Open stock
8D6063-2—Western asst
8D6063-3—Southern asst
Doz. $22.50
10 doz. lots, " 22.25



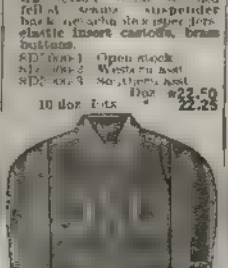
Coat—[illegible] made [illegible] "Stifel" extra [illegible] indigo drill, [illegible] stitched seams, [illegible] pockets, [illegible] and [illegible] cuffs, [illegible] faced [illegible] and [illegible] collar, [illegible] stitched felled seams. Assid. sizes 36 to 44, 1 doz. in bdl.
8D5128—Open stock
8D5128—Reg. lar asst.
Doz. $13.50
10 doz. lots, " 13.25



Coat—[illegible] made [illegible] "Stifel" extra [illegible] indigo drill, [illegible] stitched seams, [illegible] pockets, [illegible] and [illegible] cuffs, [illegible] faced [illegible] and [illegible] collar, [illegible] stitched felled seams. Assid. sizes 36 to 44, 1 doz. in bdl.
8D5129—Reg. lar asst.
Doz. $18.50
10 doz. lots, " 16.00



Coat—[illegible] made [illegible] "Stifel" extra [illegible] indigo drill, [illegible] stitched seams, [illegible] pockets and [illegible] cuffs, [illegible] faced [illegible] and [illegible] collar, [illegible] stitched felled seams. Assid. sizes 36 to 44, 1 doz. in bdl.
8D5044-1—Open stock
8D5044—Regular asst.
Doz. $21.00
10 doz. lots, " 20.50



Coat—[illegible] made [illegible] 2 [illegible] wt. indigo denim, [illegible] stitched seams throughout, [illegible] and [illegible] cuffs, [illegible] faced [illegible] and [illegible] collar, [illegible] stitched felled seams throughout. Assid. sizes 36 to 44, 1 doz. in bdl.
8D5044-1—Open stock
8D5044—Regular asst.
Doz. $22.50
10 doz. lots, " 22.25

KHAKI OVERALLS AND COATS

Apron Overalls [illegible] wt. Wabash khaki drill, 2 seam leg [illegible] faced [illegible] and [illegible] pockets, [illegible] continuous [illegible] & side openings reinforced rail road back, [illegible] brass buckles, spring [illegible] triple stitched felled seams, brass buttons.
8D5[illegible]-1—Open stock
8D5[illegible]-2—Western assd
8D5[illegible]-3—Southern assd
Doz. $27.00
10 doz. lots, " 26.50

YOUTHS' "STIFEL" APRON OVERALL

8D5063—[illegible] wt. [illegible] stitched seams, [illegible] and [illegible] pockets, [illegible] and [illegible] faced [illegible] ing [illegible] and [illegible] pockets, [illegible] rule at [illegible] watch pocket, [illegible] and [illegible] faced side openings, [illegible] fly, [illegible] stayed, [illegible] tailored [illegible] seams, [illegible] road back, [illegible] ed straps crossed and [illegible] ed, [illegible] and [illegible] faced [illegible] ed

LAWN SPRINKLERS

BUSY

The Blake top is used on this sprinkler, with a solid iron sled base.

Fig	235
For hose, inch	¾
Weight per dozen, lbs	35
Per dozen	$16.00

One dozen in a case.

CALIFORNIA

Four brass arms and head mounted on new sled 10 inches square.

No.	California
Height, inch	12
Hose connection, inch	¾
Weight per dozen, lbs	53
Per dozen	$30 00

One dozen in a case

AETNA

The most attractive sprinkler on the market. Fancy japanned iron base, with brass coupling Polished brass head with three polished brass arms.

No.	Aetna
Height, inch	21½
Hose connection, inch	¾
Weight per dozen, lbs.	81
Per dozen	$34 00

One dozen in a wooden box.

PRESTON

Gives a fine spray, covering a very large circle, distributes the water evenly on the lawn. Base japanned finish. Head and arms brass Mounted on a sled.

Fig	221
Height, inch	5
For hose, inch	¾
Weight per dozen, lbs	53
Per dozen	$27 50

CYCLONE

Same general type as the Preston, except that the stand is 11 inches high.

Fig	225
For hose, inch	¾
Weight per dozen, lbs	58
Per dozen	$30.00

All above, one dozen in a case.

TEXAS

High grade. Has four nickel plated arms. A fine distributor of water.

Fig.	316
Height, inch	24
For hose, inch	¾
Weight per dozen, lbs	84
Per dozen	$36 00

O'SHEA

Iron arms painted green, with brass tips and head.

TWO ARM

Size connections, inch	¾	1
Weight per doz., lbs	16	14½
Per dozen	$30.00	$5.00

FOUR ARM

Size connections, inch	¾	1
Weight per dozen, lbs	20	19½
Per dozen	$35 00	42.00

PLUVIUS

Japanned iron sled base. Brass arms. Head and arms are all ball bearing Distributes water over a larger area than any other

No.	Pluvius
Height, inch	11
Hose connection, inch	⅜
Weight per dozen, lbs	36
Per dozen	$27 50

One dozen in a fibre case

XL 5 IN 1

Head and deflector solid brass, zig-zag aluminum spreader runs on monel metal pin, non-rusting, non-corroding, stand, ¾-in pipe wrought iron, aluminum finish. Base 8x8, red enamel, height 11 inches.

No.	XL
Weight per dozen, lbs	36
Per dozen	$33 00

HARTFORD

Figs. 2, 4 and 6

No 1 Blake head mounted on a piece of ½-inch iron pipe, with spike in 2, 4 and 6-foot heights. Painted green. Fitted for ¾-inch hose.

Figs.	2	4	6
Height, feet	2	4	6
Weight per doz, lbs.	30	42	54
Per dozen	$18.00	20.00	23 00

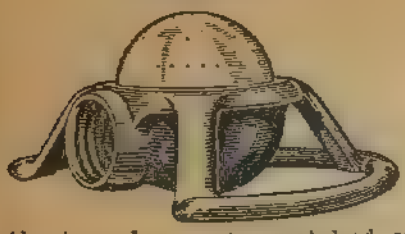
O'SHEA TRIPODS

Painted green.

Size connections, inch	¾	1
Weight per dozen, lbs	102	102
Per dozen	$38.00	39 00

LAWN SPRINKLERS

BROOKS



Aluminum base, antimonial lead cap body of non-corrosive metal, throws a very fine spray, covering a large radius.

For hose, inch..... ¾
Weight per dozen, lbs..... 11
Per dozen..... $12.00

FAN

This sprinkler can be moved about the lawn without turning off the water as the spray is thrown away from the sprinkler.

Fig. 90—For hose, inch..... ¾
Weight, lbs..... 5
Per dozen..... $3.00
One dozen in carton.

WILGUS LAWN TWIN

A one-piece casting with no movable parts to wear or get out of order. White metal.

Fig. 70—For hose, inch..... ¾
Weight, lbs..... 8
Per dozen..... $6.50
One-half dozen in a box.

WILGUS

Will cover large area on most any pressure. Large spike for sticking in ground. Can be moved without shutting off water.

No..... 8
Hose connection, inch..... ¾
Weight per dozen, lbs..... 4
Per dozen..... $4.70
One-half dozon in a box.

EVANSTON

Japanned iron. No revolving parts to wear out or clog with dirt.

No..... Evanston
Height, inch..... 2¼
Hose connection, inch..... ¾
Weight per dozen, lbs..... 23
Per dozen..... $12.00
One dozen in a fibre case.

C. B. G.

While this sprinkler, as its name (cheap but good) indicates, is low priced, it possesses the same merits as many that are higher priced, and will not clog with sand or dirt. Japanned finish.

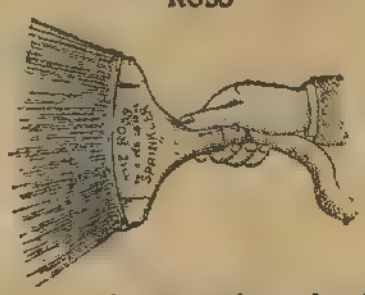
Fig. 217—For hose, inch..... ¾
Weight, lbs..... 13
Per dozen..... $7.50
Six dozen in case.

SIMPLEX

Fig. 95—With galvanized steel head.
For hose, inch..... ¾
Weight, lbs..... 8
Per dozen..... $4.25

Fig. 96—With brass head.
For hose, inch..... ¾
Weight, lbs..... 8
Per dozen..... $4.50
One-half dozen in carton.

ROSS



Throws the water in a fan-shaped spray, and satisfactory results can be obtained with very light pressure. Finished brass.

Fig. 404—For hose, inch..... ¾
Weight, lbs..... 3¼
Per dozen..... $12.50
One dozen in box.

LITTLE WONDER

No revolving parts to wear out or clog. Sand will not interfere with its action. Stands 2 inches high on a base 4½x3½ inches. Red finish.

Fig. 317—For hose, inch..... ¾
Weight, lbs..... 11
Per dozen..... $7.50
One dozen in box.

FOUNTAIN

Fitted with a fountain jet for distributing the water close to center.

No. 75—
For hose, inch..... ¾
Weight, lbs..... 9
Per dozen..... $6.50
One-half dozen in carton.

SHOWER

The perforated head is made from heavy sheet brass, and delivers the water with absolute evenness over a large area.

Fig. 101—
For hose, inch..... ¾
Weight, lbs..... 8
Per dozen..... $5 00
One-half dozen in carton.

THOMPSONS SPRINKLER HEAD

Two-piece adjustable sprinkler head. Zinc body. Brass core. Can be adjusted so as to give a uniform delivery of water from each sprinkler. A special wrench for adjusting included with every half dozen sprinklers.

Fig. 115—
For pipe, inch..... ½
Weight, lbs..... 8¼
Per dozen..... $9 00
One-half dozen in box.

TROUT BASKETS

SPLIT WILLOW

First Quality, Double Woven Split Willow; Russet Leather Straps; Nickel Plated Trimmings, Without Straps.

Size Nos.	Size, In.	Cap., Lbs.	Weight, Lbs.	Per Dozen
0	6½x 9	6	⅝	$30 00
1	7½x11½	10	1	36.00
2	8 x13	15	1¼	42 00
3	9½x14½	20	1½	48.00
4	10 x15½	25	1⅞	56.00

Open Stock

SPLIT WILLOW
Leather Bound

Best Quality Double Woven Split Willow; Edges and Center Bound with Russet Strap Leather; Strap Fastener with Buckle.

Size Nos.	Size, In.	Cap., Lbs.	Weight, Lbs.	Per Dozen
11	7½x11½	10	⅞	$ 96 00
22	8 x13	15	1⅛	102 00
33	9½x14½	20	1⅝	108 00
44	10 x15½	25	1⅞	120.00

Open Stock

FOLDING CANVAS

Made of Brown Canvas, Securely Sewed and Fastened with Brass Eyelets; Web Shoulder Strap with Leather Ends; Cane Ribs to Hold Shape when in use.

Size Nos.	8
Size Back, In.	8x10x10
Capacity, Lbs.	20
Per Dozen	$21.00

One in a Box

TROUT BASKET STRAPS

WEB

Per Dozen

No. 3—Web Shoulder Strap, 17x1¾ in.; Web Body Straps, ⅞ in. Wide; Total Length 34½ in.... $8 00

One Dozen in a Bundle

WEB HARNESS

Arranged to put weight of basket on left shoulder, leaving right arm free for casting.

Per Dozen

No. 5—Shoulder Strap 15x2½ in., Long Web Straps 5½x2½ in., Short Web Strap 5½x7½ in.; Turned Snap and Buckle..... $12 00

One Dozen in a Bundle

ROD HOLDERS

For Trolling or Still Fishing from a Boat

Per Dozen

Universal — Malleable Iron, Heavily Tinned... $12.00

One in a Box

DISGORGERS

Used Where Fish Has Taken the Hook Well Into Stomach as is Often the Case with Big Greedy Ones; By Placing the Line Between the Flanges and Running the Disgorger Down into the Bend of Hook, it may be Removed Easily Without the Necessity of Cutting the Fish Open or Sacrificing the Hook

Per Dozen

No. 1—Double, with Large and Small Ends; 7 in. Long; Brass, Nickel Plated..... $4.00

One Dozen in a Box

Per Dozen

No. 2—Single; 6¾ in. Long, with Eye; Brass, Nickel Plated $2.50

Three Dozen in a Box

HOOK EXTRACTORS

Per Dozen

No. 3—Single; 6½ in. Long, with Eye; White, Metal Wire..... $1.20

One Gross in a Box

FISH BALANCES OR SCALES

Per Dozen

Novelty—Weights 16 Lbs. by 2 Oz. Graduations; Brass, Nickel Plated; Warranted Accurate; **Barrel 5½x3 in.**..... $8 00

One Dozen in a Box

INSECT ANTIDOTES

MICHIGAN DOPE

An Absolute Preventive Against Mosquitoes, Black Flies, Gnats and Deer Flies. An application will Last Longer than any other preparation made. It has a peculiar odor yet not offensive. It is applied directly on the skin to the parts exposed and is harmless, in fact, it is very soothing and is antiseptic.

	Per Dozen
No. MDL—Liquid; In 4 Oz. Cans . . . . . One Dozen in a Box	$6 00
No. MDP—Paste; In Tin Box, size 3½x2¼x⅞ in. One Dozen in a Box, Weight per Dozen 2 Lbs.	Per Dozen $3.00

LOLLACAPOP

A Paste Preparation

The Greatest Known Antidote for Mosquitoes, Black Flies, Gnats, etc. It is applied to the Hands, Wrist, Face, Neck and All Exposed Parts. Has a Pleasing Odor and is Beneficial to the Skin.

	Per Dozen
No. 1—In Tin Boxes . . . . . Approximate Weight per Dozen, 2 Lbs.	$4 00

FISH SPEARS

Hand Forged from Spring Steel, Natural Finish; Key Wedge Holds Prongs in Shank

WITH SOCKET SHANK

	Per Dozen
No. 04—Four Prongs, 4½ in. Wide at Points, 6¾ in. Long, 8½ in. Drive Shank	$21 00
No. 05 Five Prongs, 5¾ in. Wide at Points, 6¾ in. Long, 14½ in. Drive Shank	25 00

Open Stock

WITH SCREWED SHANK

	Per Dozen
No. 5P—Five Prongs, 5½ in. Wide at Points; 6¾ in. Long, 11 in. Screw Shank with Ferrule	$18 00
No. 6—Five 4 in. Prongs; Width at Points, 5½ in. Total Length, 10 in.; Machine Cut Threads, Aluminum Bronze Finish	$12 00

HALF ROUND WROUGHT STEEL SOCKET

	Per Dozen
No. 20—Three 2¼ in. Prongs, 2¾ in. Wide at Points	$4 00
No. 30—Five 4 in. Prongs, 3⅞ in. Wide at Points	6 00
No. 40—Five 4½ in. Prongs, 4⅝ in. Wide at Points	8.00

Open Stock

FROG SPEARS

	Per Dozen
No. 13—3 Steel Prongs; Length of Prongs 21½ in; Width 2¾ in.; Extreme Length of Spear, 42½ in., Nickel Plated, Malleable Iron Sockets, Tin Point Protector . . . . . One Dozen in a Box	$3.40

FISH SPEAR HANDLES

	Per Dozen
No. 10—Length 10 ft.; Selected White Ash, Sanded Finish	$10.00

HATCHETS

Prices on Request

LIBERTY BELL—1776 LINE

Forged From High Grade Solid Steel Carefully Tempered Head and Bit or Cutting Edge Which is Carefully Ground and Sharpened, Ready for Use Every Hatchet Perfectly Hung Standard Sizes and Dimensions Both Hatchet Head and Handle Bear a Very Attractive Label

FULL POLISHED AND GOLDEN BRONZE BODY. LIGHT BLUE PAINTED BEVEL

Polished Deep Bevel on Back. Golden Bronze Octagon Poll. Full Polished Face.

Straight Grain Second Growth, Thoroughly Seasoned Selected Hickory Handles

HALF			Per Dozen
No. 1776/1H—Size 1 1 lb 6 ozs.	3¾ Inch Cut	Weight,	$
No. 1776/2H—Size 2 1 lb 10 ozs.	3¾ Inch Cut.	Weight,	
No. 1776/3H—Size 3 1 lb 14 ozs	4 Inch Cut	Weight,	

LATHING			Per Dozen
Checkered Face			
No. 1776/1L—Size 1. 14 ozs	2¾ Inch Cut	Weight,	$

Half dozen in a cardboard box. Two dozen in a case

Weights do not include handles.

FULL POLISHED AND GOLDEN BRONZE BODY. LIGHT BLUE PAINTED BEVELS

Polished Deep Bevel on Back. Golden Bronze Octagon Poll. Full Polished Face.

Straight Grain, Second Growth, Thoroughly Seasoned Selected Hickory Handles

SHINGLING			Per Dozen
No. 1776/2S—Size 2. 1 lb. 6 ozs.	4 Inch Cut.	Weight,	$

CLAW			Per Dozen
No. 1776/2C—Size 2. 1 lb. 10 ozs.	4 Inch Cut.	Weight,	$

Half dozen in a cardboard box. Two dozen in a case.

Weights do not include handles.

HATCHETS

HAND MADE

PRICES ON REQUEST

High Grade Hand Forged Solid Tool Steel. Head and Bit or Cutting Edge are Carefully Tempered to a Good Depth to Stand the Uses they are Intended for. Sharpened Ready for Use. Eye of Hatchet Head and Eye of Handle are Made to a Gauge, Insuring a Perfect Fit. Standard Sizes and Dimensions. Each Hatchet Head and Handle Bears an Attractive Label.

NATURAL BLACK FINISH

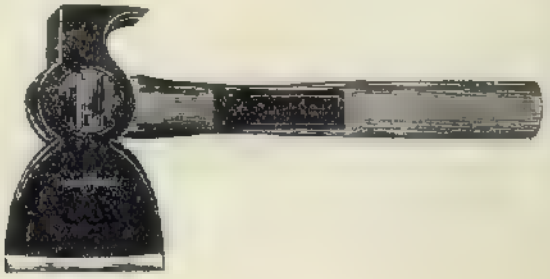
Polished Deep Bevel on Back. Polished Face and Cutting Edge.

Straight Grain, Second Growth, Thoroughly Seasoned Selected Hickory Handles.

SHINGLING		Per Dozen	HALF		Per Dozen
No. HM51	Size 1 3½ In. Cut Wt., 1 Lb 3½ Oz	$	**No. HM62**	Size 2 3¾ In Cut. Wt. 1 Lb. 9 Oz	$
No. HM52	Size 2 3¾ In Cut Wt. 1 Lb. 10 Oz		**No. HM63**	Size 3 4¼ In. Cut. Wt., 1 Lb. 14 Oz	

Half dozen in a cardboard box. Two dozen in a case.

Weights do not include handles.



NATURAL BLACK FINISH

Polished Deep Bevel on Back. Polished Face and Cutting Edge.

Straight Grain, Second Growth, Thoroughly Seasoned Selected Hickory Handles.

LATHING		Per Dozen	CLAW		Per Dozen
No. HM71	Size 1 2½ In Cut Wt., 15 Oz ..	$	**No. HM81**	Size 1 3½ In Cut. Wt., 1 Lb 6 Oz	$
No. HM72	Size 2 2¾ In Cut Wt., 1 Lb 2 Oz .		**No. HM82**	Size 2 3¾ In Cut Wt., 1 Lb 10 Oz .	

Half dozen in a cardboard box. Two dozen in a case.

Weights do not include handles.

KING CAST COOK STOVE

FOR COAL OR WOOD
MADE OF HIGHEST GRADE
PURE PIG IRON
HAS THE CELEBRATED
DUPLEX REVOLVING GRATES
LARGE
POUCH FEED DOOR
FOR
FUEL OR FOR BROILING.
HAS
LARGE OVEN
18 INCHES WIDE, 18 INCHES DEEP
10¾ INCHES HIGH
A GUARANTEED PERFECT
BAKER.
CAN BE FURNISHED WITH RESERVOIR.

Thoroughly modern in design, and equipped with all the essential features of a high-grade cook stove. The smooth, even surfaces lend attractiveness to the general design and make the stove easy to blacken and keep clean.

OVEN. Oven has ample capacity, and is heated by two large, easy working and easily cleaned flues, the baking qualities being guaranteed. Has wire woven racks.

TOP PLATES are cut into four sections, which make them easy and cheaply replaced and prevents cracking, as allowance is provided for contraction and expansion.

COVERS are made in two pieces, and have reinforced centers, which is the highest possible construction, and they have stood the test for years. We guarantee them not to crack or warp.

FIRE-BOX is oval, and all linings are made unusually heavy for a medium-priced cook stove. Has the popular single-wall fire back. The Bottom grate is duplex, reversible for burning wood.

RESERVOIR—Heavy cast-iron, white enamel lined, of good capacity and rust proof.

All stoves blackened, polished, securely crated and shipped direct to you from factory in Northwestern Missouri.

S-6022—King Stove—Without Reservoir; 18x18x10¾ in. Oven; Top 25x30½ in.; Weight 225 Pounds. Price $31.95
S-6023—King Stove—Without Reservoir, 20x20x11½ in. Oven; Top 26x32½ in.; Weight 245 Pounds. Price $37.50
S-6024—King Stove—With Reservoir; 18x18x10¾ in. Oven; Top 25x37 in.; Weight 275 Pounds. Price $40.75
S-6025—King Stove—With Reservoir; 20x20x11½ in. Oven; Top 26x39 in.; Weight 295 Pounds. Price $43.50

LIBERTY STEEL COOK STOVE

SATISFACTION AND SAFE DELIVERY GUARANTEED

$15.25 and $17.25

AN IDEAL STOVE FOR
SHEEP RANCHES AND
FOR
CAMPING PURPOSES.
STRONGLY AND WELL
CONSTRUCTED IN EVERY DETAIL
GUARANTEED
TO BAKE PERFECTLY

Our "Liberty" Steel Cook is a well-built and serviceable steel cook stove, is used largely on sheep ranches and for camping outfits.

THE TOP is of heavy cast iron, with extension end shelf. Ample room is provided for expansion and contraction of cross-pieces and lids. The Covers are smooth, and in one piece. The Oven Door is steel-lined, and drops down the same as on a range; also combination "drop down" draft door and register slide.

THE OVEN is well proportioned, with wire oven rack. FIRE BOX is suitable for burning coal or wood. We guarantee this stove to be a perfect baker.

THE LEGS, as shown, are high, allowing the stove to stand in convenient position. We can, however, if so ordered, furnish short legs, so that the stove can be bolted to bottom of wagon bed.

All Stoves are blackened, polished, securely crated and shipped direct to you from factory in Northwestern Missouri.

S-6026—Liberty Stove, Oven 18x18x9 in., weight 95 pounds; four 7-inch covers. Price $15.25
S-6027—Liberty Stove, Oven 15x18x9 in., Weight 125 Pounds; four 8-inch Covers. Price $17.25

GRAND SECURITY CAST COOK STOVE

$37.50
WITHOUT RESERVOIR

$51.50
WITH RESERVOIR

LARGE OVEN SIZE 18x20x11½ INCHES

GUARANTEED PERFECT BAKER

Burns Hard or Soft Coal
Wood or Cobs
A Strictly High Grade Stove
Fully Guaranteed
Mounted on Substantial Sanitary Base
Has Large 10 Gallon
Copper Reservoir

FIRE BOX. The linings are made extra heavy and corrugated to increase their durability. The general shape of the fire box is oval which prevents warping. The grate bars are duplex, reversible for burning wood

ASH PAN. Large bailed ash pan of ample capacity measures 12½x15 and 4 in. Size of pipe collar, 7 inches. All Stoves are blackened, polished, securely crated and shipped Direct to you from Factory in Northwestern Missouri.

OVEN. The oven in our Grand Security is extra large, nearly square, measuring 18x20x11½ inches. Flues are of large capacity, making a perfect baking oven.

TOP PLATES. The main top is cut into four sections, which many years' experience has demonstrated to be the most durable construction. The outer edges, or rim, are extra heavy and have reinforcing ribs that prevent breakage in shipment.

COVERS AND CENTERS. Equipped with two-piece SECURITY COVERS, with re-inforced SECURITY CENTERS. Their construction has stood the test of many years' severe usage. We guarantee them not to crack or warp. The SECURITY ANTI-SCORCH HOT BLAST COVERS can be put on if desired.

POUCH FEED. The pouch feed door cuts very low in front so that coal can be put in easily. The lift-up-style that forms a shield against the heat from top when putting in fuel and prevents the coal from falling on top of the stove.

RESERVOIR. Very large, ten gallon, detachable all-copper reservoir.

DOUBLE END SHELF. This is an entirely new improvement original with us, and very useful. A second shelf is placed just below the top end shelf. A very convenient place in which to put many articles used often about the kitchen stove. Also has a row of heavy cast hooks on extreme edge of top shelf.

Number	Size and No. of Lids	Size of Oven	Size of Top Without Reservoir	Size of Top with Reservoir	Weight	Price
S-6016	Four 8-Inch	18x20x11½	28x38½	.....	290 lbs.	$37.50
S-6017	Four 8 Inch	18x20x11½	.....	26x44	340 lbs.	$51.50

IMPERIAL CAST COOK STOVE

$19.95

REMARKABLY FINE STOVE AT A REMARKABLY LOW PRICE.

Our Imperial Cast Cook Stove is an excellent stove for the money. It is manufactured in one of the largest and most modern stove foundries in the United States, where they employ only the very best moulders, and experienced stove mounters; so, in this stove, we can promise you one that is extra well constructed. All castings have a fine, smooth finish, and are fitted perfectly. The cut shows the stove complete, with base set up.

THE TOP has four lids, of the latest design; they are substantial, and are made of the finest smooth stove-plate. Guaranteed not to crack or warp.

OVEN. The oven has ample capacity and is heated by two large, easy working and easily cleaned flues, the baking qualities being guaranteed. Has wire oven rack.

FIRE BOX. The general shape of the fire box is oval and all linings are made unusually heavy for a medium priced cook stove. Has the popular single wall fire back.

All Stoves are blackened, polished, securely crated and shipped direct to you from factory in Northwestern Missouri.

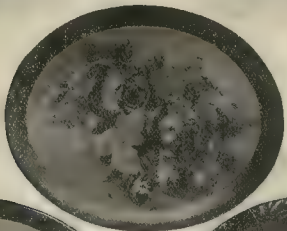
Number	Size and No. of Lids	Size of Oven	Size of Top	Weight	Price
S-6018	Four—7 Inch	14x14x9½ In.	21x27½ In.	150 Lbs.	$19.95
S-6019	Four—8 Inch	16x16x9½ In.	22¾x28½ In.	175 Lbs.	$24.85
S-6020	Four—8 Inch	18x18x10¾ In.	25x30½ In.	205 Lbs.	$29.50
S-6021	Four—8 Inch	20x20x11½ In.	26x32½ In.	235 Lbs.	$34.50

LITHOGRAPHED TRAYS

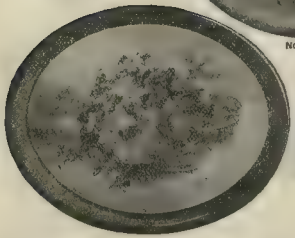
These Trays are Handsomely Lithographed in Colors; Very Artistic and Extremely Popular
SIZE 13⅝x16⅝ IN.

No. 31—Nasturtium Girl

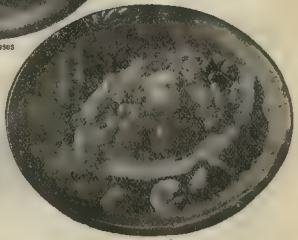
No. 32—Butterfly Girl



No. 33—Roses



No. 34—Violets



No. 30—Fruit

Wood	20	24	32	36	42
Black	30.50	.40	.50	.60	.80

Open Black

BLACKSMITHS' ANVILS

Solid Wrought Iron Body and Horn, Japanned Finish, with Hardened and Tempered Crucible Tool Steel Face Welded on; Flat Ground and Polished; Square Hardy Hole near the Heel.

Nos.	70	100	125	150	200	300	450
Size of Face, In.	3½x11	3½x13½	3½x15	4x16½	4½x18	5x21	6½x24
Approximate Weight Each, Lbs	70	100	125	150	200	300	450
Per Pound	$0 45	.45	.45	.45	.45	.45	.45

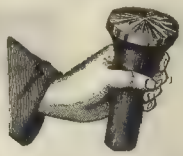
Open Stock

VULCAN

Iron Body and Horn, Hard and Tough, with Cast Iron Face. Face is True and Well Polished; Square Hardy Hole near the Heel.

Nos.	40V	50V	60V	70V	80V	100V	120V
Size of Face, In.	2½x9	3x9½	3½x10	3⅝x11	3½x12	3⅝x13½	3¾x15
Approximate Weight Each, Lbs.	40	50	60	70	80	100	120
Each	$8.50	9 40	10.00	11.40	12.00	15.00	18.00

Open Stock



PLOW ANVILS

For Sharpening Plow Shares without taking Plow Apart; Heading a Rivet, or Clinching Nails

Solid Refined Iron, Japanned; Polished Steel Head; Rounding Face and Shoulder; Round Tapering Shank.

	Each
Plow Anvils—Diameter Face, 3 in.; Length Over-All, 5¾ in.; Weight Each about 4½ Lbs	$1 50

Open Stock

FOOT VISE AND BOLT HEADER

LITTLE GIANT

For Forming, Sharpening and Welding Calks on Horse and Ox Shoes and making Bolt Heads; takes the place of an ordinary vise for Bending and Shaping Hot Iron, combining two machines in one. The Die on which the Calks are formed is of the Best Tool Steel, and shapes the Calk correctly. Sharp or Square Calks are made by turning the steel die around. The Dies adjust themselves to the Shoe, whether it is thick or thin, tapering or straight, and do not hold the shoe by the corner of the dies, like any other arrangement. There are Dies for making Bolt Heads on iron from 13/32 to 21 in. long, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 in. The Dies can be changed quickly.

	Each
No. 1—With **Shoe Calking Dies** Only. Weight Each about 155 Lbs.	$25.00
No. 1C—Complete, with **Bolt Heading and Shoe Calking Dies** Weight Each about 165 Lbs.	32.00

WELDING DIES

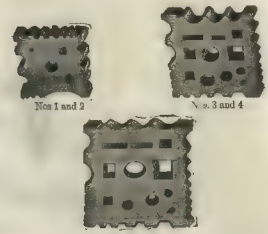
No. 2 [No. 3

IDEAL

These Dies will be found to be a most Convenient and Practical Tool in Every Horseshoer's Shop for Welding Sharp Toe Calks.

	Each
No. 2—For **No. 5, 6 and 7** Sharp Toe Calks; Weight Each about 5 Lbs.	$2.00
No. 3—For **Nos. 0, 1, 2, 3 and 4** Sharp Toe Calks; Weight Each, about 7½ Lbs.	2.00

SWAGE BLOCKS



Nos 1 and 2 Nos. 3 and 4

Nos. 5, 6 and 7

Used by Blacksmiths for Forming Square, Round or Oval Shapes

The Outside Corrugations are for Swaging Iron into Various Shapes. Use the Inside Holes in Making Tools with an Upset Head, such as Platters and Hammers.

Nos.	1	2	3	4	5	6	7
Size, In.	12½x4	12½x4	15x4	16x4	18x4½	19½x4½	24x6
Wt Each, Lbs.	100	125	150	200	250	300	600
Per Pound	$.....	....	....	....	....	....	....

FOLDING CAMP BROILERS

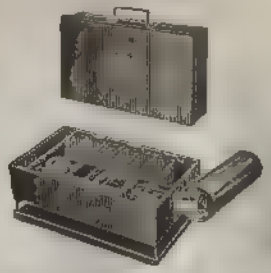
1K1880—10x14 best steel wire, electric welded, lolatod reinforced through center by flat steel bars which prevents warping and sagging when hot. When not in use folds flat. In box 1 lb. Doz. $4.50

1K1897 13x21½ in., aluminized finish under grate removable. Ideal for motorists, campers and picnickers. 1 in pkg. Each $1.10

1K1900—13x21½ in., heavy gauge wire, aluminum finish hinged galvanized steel wing shield. A complete meal that sets readily. 1 in pkg. Each $2.00

AMERICAN "KAMPKOOK" STOVE

Size folded 14x8x8 in.



1K1899—The only folding gasoline camp stove designed especially for all outdoor cooking. Burns cooking burner effectively the wind absolutely safe. Entire stove including tank inclosed in steel case when not in use. Set up and going in one minute. Nothing to get out of order. Complete 9 lbs. Each $7.50

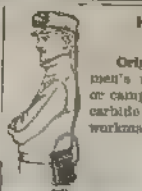
CANTEEN

1K1887—Approved U. S. regulation pattern, XXX tin plate, removable. Brown drill cover snap buttons, strap fastening with strap. 1 side canteen to ship 1 in box. Each $1.15

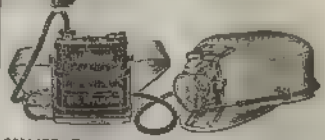
"CELLO" MESS KIT

1K1879—7 pcs., for boy scouts, sportsmen and campers, all double channel except fry pan, sanitary, and durable case to keep the all pieces clean and fold into khaki bag with sling. 1 kit complete in box. Each $1.65

HUNTING AND CAMPING CARBIDE LAMPS



Original in design and made especially for sportsmen's use. Just the thing for hunters, fishermen or campers. Made in two parts, water reservoir and carbide container. Every lamp guaranteed perfect in workmanship and material.



1K1872 Lamp and Hunting Searchlight combined, strong, durable, compact, equipped with self-lighter, no matches required. Unequalled for night hunting, trapping, fishing, boating, trailing, tire hunting and camping. Lamp is worn on head by elastic cap and gives a powerful penetrating light a distance of 200 feet, will not blow out. Generator of pressed brass, nickel plated, rubber hose and canvas belt. Carbide capacity, enough to burn 10 hours. 1 in box. Each $4.50

1K1876—Brass Camp Lamp, nickel polished, including pocket carbide can. Reflector equipped with self-lighter, no matches required. Valve controlled, water feed can be shut off and refilled. Ideal for Trappers, Hunters, Campers and Sportsmen. Burns three hours on 2½ ounces of carbide producing a 20 candle power light, a distance of 75 feet, will not easily blow out. Does not smoke, no grease or dirt, absolutely safe, can be carried or attached to the belt, or fastened on a boat. Each

1K1871—Lanterns for Campers & Automobilists, the only automatic generating acetylene lantern made. Gives a 20 c.p. light, burns 8 to 5 hours with 5 ounces of carbide. Flame will not blow out, controlled by valve can be turned high or low. Made of brass, nickel plated, highly polished, detachable bull's eye lens, strong silver reflector, gives penetrating light. 1 in box. Each $4.50

PEDOMETER

Registers distance walked

1K990—Registers up to 100 miles, polished nickel watch case, regulated by length of owner's stride, each step makes 1 swing of pendulum, accurate and trouble proof, guaranteed, looks like, etc. 1 in box. Each $1.75

ROW BOATS CANOES & SUPPLIES

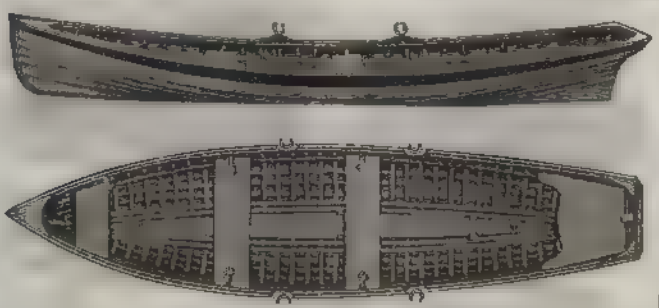
Popular models made by the Do... equal any on today's market. The... make quick sales and build up a good bus...

...struction and design... ...atures help considerably to ...or you. Go after this business

NOTE: All row boats and canoes are shipped direct from factory at Eau Claire, Wisconsin. Allow from 1 week to 10 days for shipment.

LIVERY ROW BOATS

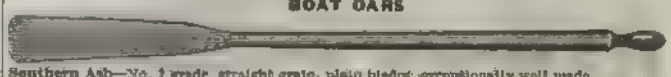
Especially adapted for use around the average summer hotel and public parks. Is subject to all kinds of hard usage and abuse. Large carrying capacity for picnic parties. Light draught making it a very desirable fishing boat.



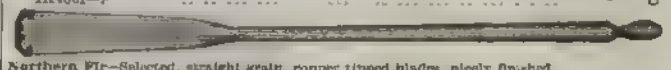
Keel, stem, stern post and ribs are made from clear selected white oak. Ribs are spaced 4 in. apart at center, 3 in. apart. Selected white cedar planking ⅜ in. thick, lap strake on sides. Clear selected white oak gunwales, capped, covered the end ribs and inner and outer gunwales. Clear white oak seats and stern knees. Stained and varnished. Painted on bottom. Natural finished decks, seats, sidewalls and outer strakes finished with 3 coats of spar varnish. Battleship gray painted inside, 3 coats of linseed green painted outside. 2 pairs of galvanized oar locks, holders and 2 pr. of galvanized locks included. Length of boat is measured over outside of gunwale. Beam is measured from outside to outside of gunwale. Depth, from top of gunwale to bottom of keel. 1 in crate.

	Length	Beam	Bow Depth	Stern Depth	Amidship Depth	Wt.	Each
1K4824—14 ft.	164 in.	33 in.	21 in.	14½ in.	10½ in.	105 lbs.	$54.50
1K4826—16 "	185 "	36 "	23 "	15½ "	12 "	185 "	68.75

BOAT OARS

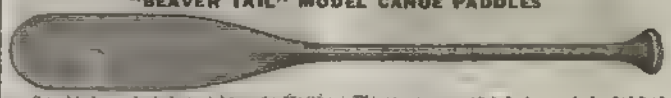


Southern Ash—No. 1 grade, straight grain, plain blades, exceptionally well made.
1K4620—6½ ft. long. Pr. 1.80
1K4631—7 " " 2.00



Northern Fir—Selected, straight grain, copper tipped blades, nicely finished.
1K4614—6½ ft. long. Pr. $2.10
1K4616—7 " " 2.25

"BEAVER TAIL" MODEL CANOE PADDLES



6 in. blades, selected straight grain Northern Fir, strong, graceful design, nicely finished throughout with spar varnish.
1K4615—4½ ft. long. Each $1.25
1K4616—5 " " 1.30

GALVANIZED OAR LOCKS

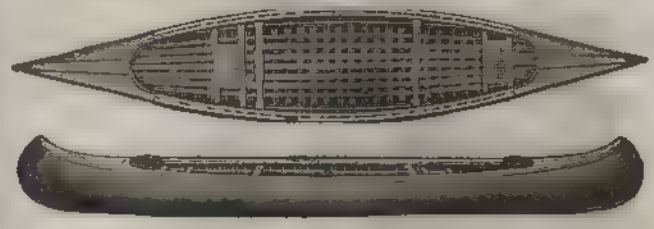
1K4823—1½ in. between horns, malleable iron, each oar lock complete with socket, ready to attach to boat. 1 pr. in pkg. Doz. prs. $4.50

COMBINATION LIFE PRESERVER AND COMFY CUSHION

For Auto or Canoe

1K4617—16½ in. square, imitation Spanish leather covered filled with "Java Kapoc" a moisture resisting fiber. Will support person in water 24 hours. 1 in pkg. Each, $1.40

"INDIAN" CANVAS COVERED CANOE



Designed to fulfill the demand for a dependable canoe for cruising, livery and other hard usage. Made leakproof, will not bulge or become waterlogged.

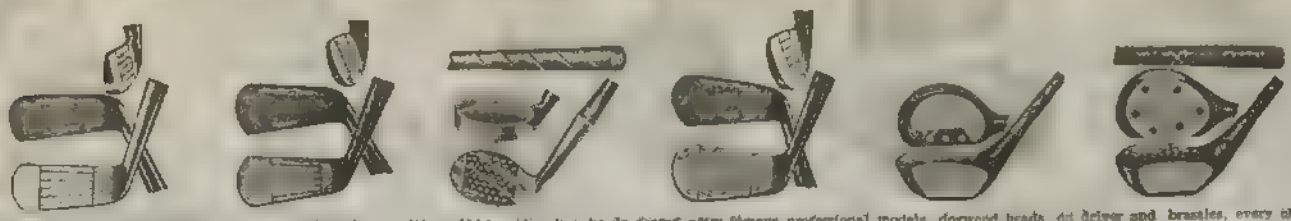
1K4822—16 ft. long, 34 in. beam, 24 in. deep at mids, 18 in. deep amidship. White oak keel, stem and ribs ⅝x1½ in. keel double steam boat stem, and ⅝x¾ in. ribs spaced 4 in. apart. White pine cedar battoes, ¼ in. thick, inner and outer gunwales of clear northern fir, decks of clear white spruce, 30 in. long with oak covering boards. Selected white oak coaming, clear red birch thwarts and seats, seats hard caned. All fastenings copper and brass. Deck, seats, gunwales natural finish, 3 coats of spar varnish inside painted with 3 coats of straw colored lead paint. Outside painted 3 coats of green paint, enameled. 1 in crate, 80 lbs. Each, **$71.50**

GOLF CLUBS

BALLS
& BAGS

Golfing is best going sport of its kind each year. Numerous public and private golf courses are being established in every section of the country, thereby making it possible for more people to indulge in this healthful sport. You can do a profitable business by having a good display and pushing these numbers during the season. Study this showing carefully and take advantage of these prices.

"HEATHER" BRAND GOLF CLUBS



Persimmon second-cut hickory shafts highly polished, first quality rattan grips, iron heads, forged after famous professional models, dogwood heads on driver and brassies, every club balanced and absolutely accurate.

1K3139—Putter. Each, $2.75 | 1K3136—Mid-iron. Each $2.75 | 1K3135—Niblick Each, $2.75 | 1K3138—Mashie Each $2.75 | 1K3137—Driver Each $3.00 | 1K3134—Brassie Each $3.00

H. & B. PATENTED "KORK GRIP" GOLF CLUBS

Made by H[illegible] & Bradsby Co., makers of the celebrated Louisville Slugger bat, the steel center of perfectly balanced tempered hickory shafts, which absorb perspiration and will not pull out of the hand, guaranteed not to break, or come off with reasonable use. All clubs are carefully air seasoned, inspected and tested by sports experts and are finished and equipped with patented Kork Grip.

1K3128—Driver Each $4.00 | 1K3126—Mid-iron Each $4.00 | 1K3127—Mashie Each $4.00 | 1K3129—Niblick Each $4.00 | 1K3124—Driver Each $4.25 | 1K3125—Brassie Each $4.25

WILSON GUARANTEED GOLF BALLS

1K3290

Guaranteed against unwinding, will not crack, chip or lose their shape. Recommended for their exceptional driving qualities. 1 doz. in box.

		Doz.
1K3289—Wilson Sinker, 20 [illegible]	small size.	$6.25
1K3291 Wilson Floater [illegible]	size.	6.25
1K3287 Blue W[illegible] Sinker		8.25
1K3288 Red W[illegible] Floater		8.25
1K3290 Green W[illegible] Sinker		8.25

"COLONEL" GUARANTEED GOLF BALLS

St. Mungo Co's patented construction, special core elastic white enamel paint. Guaranteed. ½ doz. in box.

1K3284—	No. 31, sinker	} Doz.	$9.25
1K3283—	" 29 "		
1K3286	floater		

"CADDY" GOLF BAGS

1K3161 Each

1K3167 1K3164

1K3161 [illegible] Ring Sunday Bag, heavy khaki duck, welted steel ring reinforced [illegible] bottom, white canvas tape bound pockets with [illegible] and buckle. Heavy web shoulder strap, 1 in pkg. Each $1.75

1K3163—[illegible] 10 or 12 D. E. straps, [illegible] spring steel, leather [illegible] and [illegible] with [illegible] and [illegible] with [illegible] and [illegible] leather [illegible] [illegible] leather [illegible] and draw. 1 in pkg. Each $5.25

1K3165 [illegible] D. E. white duck [illegible] and [illegible] with [illegible] and [illegible] with [illegible] and [illegible] leather [illegible] [illegible] leather [illegible] and [illegible] [illegible] and [illegible] [illegible] and [illegible]

DOUBLE BARREL HAMMERLESS SHOTGUNS

L. C. SMITH IDEAL

IDEAL GRADE, BREECH LOADING

This gun is a "General Purpose" weapon, a sound, reliable and thoroughly serviceable gun with just enough engraving to make it attractive. The R barrels are bored and finished with extreme accuracy and care. For general purposes it is far superior to any other gun offered at a similar price.

Barrels.—12 and 16 gauge, good grade Damascus steel; 20 gauge, New London steel. Can furnish cylinder, modified or full choke bored.

Stock.—English walnut. Nicely checkered and well finished; fore-end nicely checkered.

Grip.—Full pistol regular.

Weights.—12 gauge, 6¼ to 8¼ lbs; 16 gauge, 6¼ to 7 lbs; 20 gauge, 5¾ to 6½ lbs each.

Without Automatic Ejector

Ideal Grade—12 gauge, 30-inch barrels	Each	$67.50
Ideal Grade—16 gauge, 28-inch barrels	"	67.50
Ideal Grade—20 gauge, 28-inch barrels	"	67.50

With Automatic Ejector

Ideal Grade—12 gauge, 30-inch barrels	Each	$80 00
Ideal Grade—16 gauge, 28-inch barrels	"	80 00
Ideal Grade—20 gauge, 28-inch barrels	"	80 00
Hunter one-trigger on above guns, extra	"	80 00

L. C. SMITH

Field Grade—Full pistol grip. Barrels Armor steel, bored full choke. Hard rubber butt-plate. Gauge 12, 16 and 20. 12 gauge 30 inch barrels weighs 6⅞ to 8 lbs.; 16 gauge 28 inch barrels weighs 6 to 7 lbs.; 20 gauge 28 inch barrels we ghs 5½ to 6½ lbs. . . . . Each $54 60

Field Grade—With automatic ejector, 12, 16 and 20 gauge . . . . . Each $67.50

ITHACA

NO. 1 GRADE, BREECH LOADING

A gun of great durability, of long lasting, hard shooting qualities, and one of the most capable grades.

Barrels.—Nitro steel barrels, adapted for nitro or black powder. Cylinder, modified or full choke bored.

Stock.—Strong black walnut of nice color. Full pistol grip and cap. Fore-end and grip hand checkered.

Weights—12 gauge, 6½ to 8½ lbs; 16 gauge, 6 to 6½ lbs; 20 gauge, 5¼ to 6 lbs.

When ordering, specify gauge, length of barrel, weight and style of boring.

Without Automatic Ejector.

No. 1 Grade—12 gauge, 30-inch barrels	Each	$55.00
No. 1 Grade—16 gauge, 28-inch barrels	"	55 00
No. 1 Grade—20 gauge, 28-inch barrels	"	55.00

With Automatic Ejector

No. 1 Grade—12 gauge, 30-inch barrels	Each	$70 00
No. 1 Grade—16 gauge, 28-inch barrels	"	70.00
No. 1 Grade—20 gauge, 28-inch barrels	"	70.00

Field—Imported smokeless powder steel barrels. Double thick breech. Walnut stock and fore-end. Half pistol grip, checkered. Rubber butt-plate. 12 gauge, 30 and 32-inch, weight each, 7 to 8½ lbs; 16 gauge, 28-inch, 6¼ to 7⅛ lbs; 20 gauge, 28-inch, 5¼ to 6 lbs. Both barrels full choke.

Each $45.00

Field—With automatic ejector. 12 gauge, 30-inch; 16 gauge, 28-inch, 20 gauge, 28-inch.

Each $60 00

ITHACA SINGLE BARREL TRAP GUN

A well made, high grade single barrel trap gun that will stand the continuous strain of nitro powder loads. Equipped with lightning lock automatic ejector and ventilated rib. Barrels are made from genuine Krupp fluid steel. Hand engraving on frame, top lever, fore end iron and guard. Triple gold plated trigger and gold shield in stock.

Victory Grade—12 gauge, 34-inch ribbed barrels . . . . . Each $75.00

"CUDDLE ME" DOLLS—With Sleeping Eyes

Very popular staple sellers. Exceptionally good values. The moving eyes particularly attract the trade

Composition head and hands painted features, sleeping eyes, mohair wigs, cork stuffed bodies, jointed at head, shoulders and hips, arms and legs, dressed in fine nainsook slips, ribbon rosettes at shoulders, crepe skirts over lawn petticoats, fancy crepe sleeves, ribbon trimmed caps, white socks, leatherette shoes. 1 in box

F7144	12 in.	white socks	Each $2.25
F7145	14 "	" "	" 3.00
F7146	16 "	crocheted booties	" 3.75
F7147	18 "	" "	" 5.00
F7148	20 "	" "	" 6.50

EFFANBEE "BABY DAINTIES"

Will please every year. Composition heads and hands, painted features, full mohair wigs, cork stuffed bodies, jointed at head, shoulders and hips

F7140—11 in., white lawn baby dress, new fancy crepe sleeves with rows of satin lace trim, the ribbon pantaloons, white socks, 1 in box. Each $1.50

Large Sizes. Fine white lawn dress, new fancy crepe sleeves, lace and ribbon trimmed, lawn underskirt, lace trimmed pantalettes, white socks, 1 in box

F7141—16 in.	Each	$2.75
F7142—18 "	"	4.50
F7143—20 "	"	6.00

ALL ATTRACTIVE MODELS

"SPECIAL VALUE" DRESSED BABY With Mohair Wig

F7532—18½ in. composition head and hands, painted features, cloth body, composition arms, jointed shoulders, short baby doll dress, full short lawn petticoat, ribbon trimmed, white socks and baby shoes, pacifier on ribbon, open mouth, underwear extra, crocheted bonnet, 1 in box. Each $3.50

ROMPER BABIES— With Sleeping Eyes

Breast plate, composition heads and hands, painted features, jointed hands and brunette mohair wigs, moving eyes, cork stuffed bodies, position limbs, concealed hip and shoulder joints

White plaid rompers with [illegible] ruffles & bonnets to match, [illegible] leatherette bootees, open mouth with pacifier. 1 in box

[illegible]	15"	Each	$2.25
F7160	14 "	"	3.50
F7161	17½ "	"	4.50
F7162	20 "	"	6.00
F7163	22 "	"	Out

"OUTDOOR" BABIES

Composition heads and hands, painted features, mohair wigs, cork stuffed bodies, concealed hip and shoulder joints, white lawn dress, lace trim square neck, sleeves and 2 rows lace on skirt, lace trim underskirt and [illegible] white socks and leatherette bootees, open mouth with pacifier

F7579	12 in.	Each	$2.50
F7580	14 "	"	3.50
F7581	17½ "	Temp. Out	
F7582	20 "	"	6.50

CRYING BABY DOLLS

Voice concealed in head—when raised cries naturally

Composition head and hands. Each English painted features, mohair wigs, sleeping eyes, excellent baby expressions, well stuffed bodies, hip and shoulder joints, position limbs, fine quality white lawn dress rosette and lace trim [illegible] lace trimmed [illegible] for wear crocheted bootees, open mouth, nursing bottle crocheted cover. 1 in box

F3542	16½ in.	Each	$3.50
F3543	18½ in.	2 rows hemstitching on skirt. Each	$5.00

BABY BUNTING —With Moving Eyes

F7578—23 in., composition breast plate head, painted features, moving eyes, mohair wig, composition forearms, cork stuffed body, position limbs, concealed hip and shoulder joints, sateen finish wool bunting, trimmed with [illegible] ribbon, [illegible] 3 pc. [illegible] bootees, open mouth, nursing bottle, crocheted cover, pacifier with ribbon, buttons, buttonholes, pacifier with ribbon. An exceptionally good seller. Can be dressed and undressed. 1 in box. Each $10.00

SWEATER BABIES— With Moving Eyes

Composition heads & hands, painted features, jointed blonde & brunette mohair wigs, moving eyes, cork stuffed bodies concealed joints, white worsted sweater suits [illegible] caps match, pink and blue ribbon trims, white [illegible] shoes, pacifiers on ribbon. 1 in box

F7551	12"	Each	$2.00
F7552	15 "	"	5.75
F7553	22 "	"	10.00

"QUALITY" BABY DOLLS In Short Dresses

Composition heads and hands, painted features, mohair wigs, sleeping eyes, well stuffed bodies, hip and shoulder joints, pearl buttons, white organdie dress with ribbon beading and lace trim, yoke sleeves and flounce, fine lawn underwear, ribbon and lace trim cap with ribbon ties, white socks, leatherette [illegible] pacifier on ribbon. 1 in box

[illegible]	15"	Each	$6.00
[illegible]	18 "	"	8.25
[illegible]	22 "	"	10.50

MADAME HENDREN "LIFE-LIKE" BABY DOLLS

Nationally advertised. This year all numbers have "crying" or "mama" voices. Chubby bodies and limbs, stuffed with finest grade cotton, bisque jointed composition heads, hands and forearms, painted features and hair, natural [illegible] flesh finish

Dressed Babies—White organdie dress with [illegible] ribbon bow trim sleeves, [illegible] lace edged with baby pin, organdie French bonnet, lace front, ribbon rosettes, tie strings, lace trim lawn underwear, ribbon and lace trim cap with ribbon ties, white socks, leatherette [illegible] pacifier on ribbon. 1 in box

[illegible]	15"	Each	$6.00
[illegible]	18 "	"	8.25
[illegible]	22 "	"	10.50

Rompers Babies—Solid pink or blue linene rompers, embroidery edging on neck and sleeves, belt with side loops, lace trim lawn bib with baby pins, lace and ribbon rosette trim lawn cap, tie strings, 2 color socks, patent leather shoes. 1 in box.

F7590	18 in., "mama" voice	Each	$7.00
F7591	22 " "mama" voice	"	8.75

Dressed Babies—Mohair wig, sleeping eyes, white organdie dress with lace flounce, ribbon bow trim sleeves, lace edged bib with baby pin organdie French bonnet, lace trim lawn petticoat, canton flannel diaper, knit bootees. 1 in box

F7592—18 in., "mama" voice. Each $9.50

"BABY DORIS" —With Moving Eyes

Will make a hit with the little folks. One of the biggest sellers in the market.

Composition heads and hands, painted features, short mohair wigs, moving eyes, well stuffed bodies, hip and shoulder joints, [illegible] lawn short baby dress, [illegible] lace trim yoke [illegible] lace edged jacket [illegible] wear, open mouth, with pacifier white stockings, leather bootees 1 in box

F7570	13 in., Each		$2.25
F7571	14 " "		Out
F7572	16 " "		4.50
F7573	18 " "		5.75
F7574	20 " "		8.00

"BABY CATHERINE" —With Moving Eyes

Short mohair wigs, moving eyes, white organdie baby dress elaborately trimmed with lace and ribbon rosettes, a hair that will appeal to little mothers

Composition heads and hands, [illegible] painted features, [illegible] short mohair wigs, [illegible] moving eyes, well stuffed bodies, hip and shoulder joints, [illegible] dress, [illegible] lace and ribbon trimmed, [illegible] lace trimmed petticoat, [illegible] white socks, [illegible] leatherette bootees, pacifier on ribbon. 1 in box

F7585	13 in. Each		$2.75
F7586	14½ " "		3.75
F7587	18 " "		5.50
F7588	21 " "		7.00
F7589	25 " "		8.50

"K & K" DRESSED DOLLS

Noted for their quality. The popularity of these dolls is attributed to fine materials and workmanship. Modeled heads and hands, washable painted features, all have mohair wigs except F7600, F7601, F7740 and F7656, cork stuffed bodies, concealed hip and shoulder joints, [illegible] and flannel underwear

F7600—4 styles 10 in. [illegible] dressed dolls, [illegible] lawn dresses, [illegible] trim, [illegible] ribbon sash, [illegible] buckled slippers. Assid. ¼ doz. in pkg. Doz. $6.90

F7601—4 styles 12 in. [illegible] dressed dolls, [illegible] lawn dresses, [illegible] trim, [illegible] ribbon sash, [illegible] buckled slippers. Assid. ¼ doz. in pkg. Each, $1.00

F7740—Red Riding Hood doll, 15 in., white lawn dress, [illegible] trim neck, sleeves and bottom, red cape with attached hood, white socks and slippers. ¼ doz. in box. Each, $1.15

F7656—4 styles, 14 in. [illegible] sleepers, [illegible] flowered lawn dresses, with white Buster Collars, suspender style, [illegible] ribbon, [illegible] lace, white socks and slippers. Assid. ¼ doz. in pkg. Each, $1.50

F7802—3 styles, 14 in. [illegible] sleepers, [illegible] flowered lawn dresses, solid color and lace trimmings, lace trim puff crown cap, French underclothes, white socks and slippers. Assid. ¼ doz. in pkg. Each, $1.75

F7803—2 styles, 15 in. [illegible] flowered lawn dresses, solid color yoke, cuffs and bottom of skirt, lace trim, suspender dress of same, lace trim collar, puff crown bonnets to match, white socks and slippers. Assid. 2 doz. in pkg. Each, $2.00 Total $4.00

F7805—16 in., striped sheer lawn dress with solid color jacket effect, lace edged sack and sleeves, lace trim underwear, 2 color roll brim hat with elastic, white socks and buckled slippers. 1 in box. Each, $3.00

F7804—16 in. pink lawn dress, lace edged contee, sack and sleeves, lace and rosette trim hat, lace trim underwear, white socks and slippers. 1 in box..... Each $3.00

POPULAR "K & K" DRESSED DOLL

STAR VALUE

F7608 16 in. sheer flowered lawn slip with solid color yoke, cuffs and bottom of skirt, flowered lawn bonnet with wide white tie strings, lace trim underwear, white socks and buckled slippers. 1 in box. Each **$2.95**

The [illegible] hair wigs, stitched parts and ribbon bows

F7609—12½ in. dotted swiss French dress, lace trim neck, 2 ribbon edged flounces, wide silk ribbon sash, white socks and slippers. 1 in box. Each $2.75

F7610—14½ in., flowered lawn dress, lace edged collar cuffs and double flounce skirt, silk ribbon sash, white socks and slippers. 1 in box. Each $3.50

F7608—18½ in., white dotted swiss dress, lace trim neck, [illegible] ribbon sash, [illegible] trim underwear, white socks and buckled slippers. 1 in box. Each $4.00

F7607—18½ in. blue flowered lawn [illegible] dress, [illegible] underwear lace trim 2 color French bonnet with ribbon tie strings, white socks and buckled slippers. 1 in box. Each, $4.00

"K & K" WINDOW DISPLAY DOLL

A display in your show window or doll department will bring ready sales.

F7620 "[illegible] sewed human hair wig, [illegible] sleeping eyes, bisque head and hands, [illegible] stuffed body concealed hip and shoulder joints with [illegible] bandle, [illegible] slip, clustered tucked lace trim yoke, ribbon rosettes, lace trim neck and [illegible] edged ruffle skirt, lace and rosette trim organdie picture hat with wide [illegible] strings, [illegible] white socks and [illegible] shoes. 1 in box. Each

$12.00

F7611—16 in. blue lawn dress, lace trim neck, sleeves and bolero jacket, deep tuck in skirt, lace trim underwear, white socks and slippers. 1 in box. . . . Each $4.00

F7612—18½ in. flowered lawn dress, lace trim collar cuffs and double ruffle skirt, wide ribbon sash, lace trim underwear, white socks and slippers. 1 in box. Each $5.00

BISQUETTE HEADS—With Moving Eyes

American Bisquette heads, nearest approach to actual bisque that has yet been produced in America. Moving eyes, open mouth showing tongue and 2 teeth, well modeled hands, painted features, fine and brunette mohair [illegible] wigs, [illegible] stuffed cork stuffed bodies, concealed hip and shoulder joints

F7615—Sewed curly mohair wig, 14½ in. fine flowered lawn dress, lace edged solid color collar, 2 color puff crown hat with elastic, lawn underwear, white socks, and slippers. 1 in box. Each $3.75

F7614—Mohair wig, 16 in. fine striped lawn dress with solid color jacket effect, lace edged neck and sleeves, puff crown 2 color hat to match, with elastic, lace trim underwear, white socks and [illegible] slippers. 1 in box. Each $4.50

F7616 Sewed curly mohair wig, 16 in., flowered lawn dress, lace trim solid color jacket effect, lace edged neck and sleeves, tucked skirt, puff crown hat to match, lace trim underwear, white socks and slippers. 1 in box. Each $4.50

F7618 Curled mohair wig, [illegible] white waved over [illegible] with [illegible] flue over shoulder and trim neck, cuffs and bottom of skirt, ribbon girdle with rosette, ribbon trim hat to match, lace trim underwear, white socks and [illegible] slippers. 1 in box. Each $7.75

STAR VALUE

F7617 Sewed curly mohair wig, 14½ in. flowered lawn dress, [illegible] satin shoulder straps, lace edged neck, sleeves and bottom of [illegible] and ribbon trim, [illegible] lace and ribbon trim sweep hat, lace trim underwear, [illegible] socks and slippers. 1 in box. Each, **$7.50**

F7619 Sewed curly human hair wig, 23 in. flowered lawn dress, dotted swiss yoke, ribbon shoulder straps, lace trim neck, sleeves and skirt, lace and ribbon trim sweep hat, lace trim underwear, socks and slippers. 1 in box. Each $13.50

MAJESTIC GALVANIZED STEEL WIND MILLS

FOR WOOD OR STEEL TOWERS

The efficiency and durability of steel wind mills is thoroughly established wherever wind motors are used. Years of practical experience have enabled us to produce and place upon the market an article, perfect in design and construction, and at a price within the reach of all. Durability and strength, as well as efficiency, have not been overlooked, and we offer to the trade a line of Wind Mills which we believe cannot be excelled and which we know to be superior to many competing lines.

Great care has been used in designing our mills, to obtain the greatest amount of power with the least amount of friction, and to meet all the requirements of a wind motor in the most direct and simple manner. Strict mechanical principles have been observed and the working parts have been limited to the least number consistent with good results.

These Wind Mills are back geared 2½ to 1; that is, the pump rod makes one stroke each way while the wind wheel revolves two and a half times. Please note that all steel parts are galvanized before being put together, thereby assuring that each part is protected against rust. **The Wind Wheels** are made up in six sections with the exception of the six-foot mill, which has four sections, the six, eight, ten, twelve and sixteen foot sizes have four sails to each section and the ten and fourteen have five. Each section is supported by angle steel. Sails of heavy sheet steel. **The Working Head,** back geared 2½ to 1, is equipped with our new pitman rod mechanism which works pump rod. It travels through a ball bearing which is always in direct line with the pitman, thereby eliminating all friction and side strain. Note illustration carefully as to its simplicity, strength and durability. **Vane** has a simple, yet effective adjustable spring governor which holds vane at proper angle permitting it to develop required velocity, yet causes it to face the lighter winds and obtain full effect. **Brake** is made with a compression spring which keeps an even pressure on band when mill is out of service. It automatically holds the wheel when locked out of the wind. The mill is always in gear and ready to run unless you lock it by pulling the brake out of the wind with the pull-out wire. When mills are ordered with towers, we furnish sufficient pull-out wire and wooden pump rod for the height of the tower ordered When ordered without tower, thirty-two feet of pump rod will be furnished **Be sure, when ordering mill only, to state whether for three or four post tower and for wood or steel.** Proper cap will then be sent for the mill.

Full instructions for erecting mill are sent free. It is therefore not necessary to hire a mechanic as anyone can erect it. We guarantee prompt shipment on all mills and towers. Shipped from factory in Wisconsin.

Ball Bearing, Back Geared Warranted Perfect In Every Way.

Size of Mill to be used on Your Well

The size of mill is determined largely by the size of your cylinder. For a 6-foot mill on a 2½-in. cylinder the depth of well should not be over 40 feet, unless there is considerable water in well. An 8-ft. mill on a 2½-in. cylinder will work successfully in a 100-ft. well. A 10-ft. geared mill with a 2½-in. cylinder will work in a 200-ft. well.

B-2113—Majestic Wind Mill, wheel 6 ft., length stroke 4 and 6 inches. Weight 280 pounds ..... $ 32.50

B-2114—Majestic Wind Mill, wheel 8 ft., length stroke 4, 6 and 8 inches. Weight, 380 pounds 45.00

B-2115—Majestic Wind Mill, wheel 10 ft., length stroke 4, 6 and 8 inches. Weight, 470 pounds 56.50

B-2116—Majestic Wind Mill, wheel 12 ft., length stroke 6, 8 and 12 inches. Weight, 950 pounds $118.00

B-2117—Majestic Wind Mill, wheel 14 ft., length stroke 6, 8 and 12 inches. Weight, 1,100 pounds 147.50

B-2118—Majestic Wind Mill, wheel 16 ft., length stroke 10, 12 and 14 inches. Weight, 1,720 pounds 225.00

OVERHEAD PUMP JACKS

Made expressly for belt power; to be placed overhead, or on perpendicular posts or beams. They are made in two sizes and are back geared 4½ to one and 5½ to one. Pump makes one stroke while pulley turns 4½ to 5½ times. The gearing, frame and pulleys are substantially made of the very best materials, all casts are made of rolled material, carefully machine finished, and very accurately fitted, compact in size yet strong and durable in operation. Eight feet of pump pole and necessary bolts furnished free. Tight or loose pulleys can be furnished if desired. Shipped from factory in Wisconsin.

MADE IN TWO SIZES.

B-2135—No. 1 Pump Jack complete with 10x4 inch pulley, 6, 9 and 12-inch stroke, back geared 5½ to one. Weight 90 lbs Price $12.95

B-2136—No. 2 Pump Jack complete with 12x8 inch pulley, 12, 15 and 18-inch stroke; back geared 4½ to one. Weight, 150 lbs. Price 20.95

WIND MILL QUADRANT LEVERS

FOR EITHER PUMPING OR POWER MILLS

It is often necessary to erect the wind mill at a distance from the well or pump. In such cases, to transmit power and motion from pumping mill or pump jack to pump, quadrant levers are used. These levers are alike in form and are connected by two wires which are drawn tight by the take-up bolts in the lower ends. When used with pumping mills these wires must be crossed one to give a lift on the pump rod when the wind mill is on the up stroke. The third arm of one lever is connected to the pump pole of the pumping mill or pump jack, and the third arm of the other lever is connected to a pole leading from the lever to the pump, as indicated in the illustration.

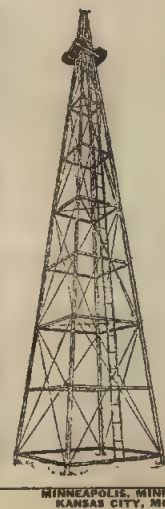
By means of the quadrant levers an ingenious person can make connection with the pump within any reasonable distance and in almost any location, frequently being able to make use of a wind mill where it could not otherwise be used, and sometimes making it possible to set a power mill in a much more desirable location in relation to machines to be operated by it. Furnished with pump connection, 8 feet of wood pump pole, pivot plates and center bolts. Quadrant wire for connecting levers is extra. Shipped from factory in Wisconsin.

B-2137—Wind Mill Quadrant $7.50

B-2138—Quadrant Wire, per 100 foot ..... .50

GALVANIZED WINDMILL TOWERS

Our Four Post Galvanized Steel Towers are made in four styles or weights, each properly proportioned for the mill which it is designed to support. They are thoroughly braced in every direction in order to obtain the best results and the strongest structure. Four anchor posts of heavy angle steel are furnished with each tower so that they may be properly secured to the foundation. Full and complete directions for erecting the towers are sent with each one. The price include anchor posts, platform, pull-out lever, and steel ladder. Shipped from factory in Wisconsin.



Style 1 for 6 and 8 ft. Wheels.

	Height	Weight	Price
B-2119	20 ft.	350	$32.50
B-2120	30 ft.	535	46.85
B-2121	40 ft.	700	64.50
B-2122	50 ft.	940	85.00

Style 2 for 10 ft. Wheels.

	Height	Weight	Price
B-2123	20 ft.	390	$36.95
B-2124	30 ft.	560	53.95
B-2125	40 ft.	745	72.50
B-2126	50 ft.	1,000	93.00

Style 3 for 12 ft. and 14 ft. Wheels.

	Height	Weight	Price
B-2127	20 ft.	545	$49.50
B-2128	30 ft.	790	77.50
B-2129	40 ft.	1,045	98.50
B-2130	50 ft.	1,385	128.00

Style 5 for 16 ft. Wheels.

	Height	Weight	Price
B-2131	20 ft.	750	$75.00
B-2132	30 ft.	1,100	106.00
B-2133	40 ft.	1,400	135.00
B-2134	50 ft.	1,815	199.00

Majestic Elevator Potato Digger

Co-Operative Price

$124.50

"EVERY DIGGER GUARANTEED"
HAS 32-INCH SHOVEL.

The "Majestic" Potato Digger is constructed by skilled workmen of the very best of steel and malleable iron, making it light, durable and strong. Two good horses, weighing 2,800 pounds or more, can handle it perfectly, although it is strong enough to use with four.

THE SHOVEL is 32 inches wide, and can be raised or lowered to meet any conditions. Its position can be altered 7-16 of an inch by one notch of the quadrant. The controlling lever is within easy reach of the operator on the seat.

THE ELEVATOR APRONS are made of ⅝ inch spring steel and formed so that one link is up and the other down when hooked together alternately. This action breaks up the dirt as it comes from the shovel. The front apron is 4 feet 5 inches long, and runs back twice as fast as the machine moves forward, spreading the dirt on the apron one-half as thick as it comes from the shovel. Two oblong sprockets on either side shake out the dirt. The back apron is 2 feet 7 inches long, and is also equipped with shakers. There is a drop of 11 inches from the front apron to the back one, making the jarring loose and separation of the dirt certain.

THE DRIVE WHEELS are 36 inches in diameter, and have 3-inch, half oval tires. Fitted to these are the lugs and the clutch. The clutch is made of malleable iron, and fitted with 1 inch cold rolled steel pins, case hardened, which engage the gear on each side of the machine, and start the elevator aprons the moment the machine is in motion. The clutch is non-breakable, and cannot get out of order, nor will it allow the machine to jar into gear when being hauled to and from work.

LUBRICATION is furnished by force feed grease cups in all the principal boxes, and spring top push oilers on the wheels, well protected from dust and dirt. THE SEAT can be adjusted to suit operator. ON STEEP HILLS the back end of rear apron can be lowered at will.

A STONE ATTACHMENT is part of the equipment of each machine, to be attached to back of shovel for work in stony land. This is easily attached by removing the two ⅞ inch bolts that hold the front rolls, setting the rolls back in nose iron, and bolting the stone fingers to the shovel blade.

THE POLE is so attached that the team has absolute control of the front wheels, preventing slewing on rolling land, and permitting backing if obstructions are met with.

ALL MACHINES are equipped with tongue, doubletrees and neckyoke, wrench and oil can. Shipping weight about 960 pounds. Shipped direct to you from factory near Chicago.

B-2660—Majestic Elevator Potato Digger..... $124.50

Schofield Potato Planter and Digger

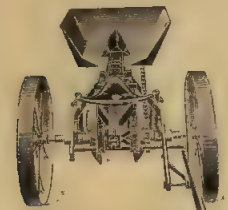


ILLUSTRATION SHOWS COMBINED PLANTER AND DIGGER.

PLANTER AND DIGGER

Schofields Potato Planter and Digger is the simplest, most practical and reliable Potato Planter and Digger on the market, and we guarantee it to give complete satisfaction.

There is perhaps no machine so well adapted to the purpose as the Scofield Digger and Planter. Every farmer who is raising potatoes to any extent will appreciate the possibilities of this machine in use on their farm. Hundreds of planters and diggers of different types have been devised without success and the Scofield is unquestionably the most popular type in use today. The new model we illustrate herewith has every late improvement known to potato planting and digging machinery. There is not a poor feature embodied in the make up of the Scofield. The fact that the machine is interchangeable to either a planter or digger makes it exceptionally valuable to anyone who is engaged in the raising of potatoes even in a small way. We recommend the purchase of the complete machine in every instance for you will find you will have use for the digger shortly after you have used the planter. We will, however, supply the machine separately if desired, as shown in the price list below. The combination is very simple to handle. When you want to use the machine as a digger, simply remove the discs and hopper and place the digging shovel in position and you are ready for digging potatoes. A few minutes time adapts the machine to either use.

ILLUSTRATION SHOWS PLANTER

Very easy to operate and nothing to get out of order. Any boy can handle this machine and do the best kind of work. Beats any machine ever put out and it will pay for itself many times over. Does the work good and does it quick.

AS A PLANTER. When used as a planter, the machine marks, drops and covers all at the same time. Accurate dropping is assured and planting always is done much better than it possibly could be done by hand. This machine is equipped with a tubular axle and wheels can be set, any distance apart desired. It will plant 13, 16 or 19 inches apart in a row by using different size sprocket wheels which are furnished with each planter. The distance between wheels determines the distance between rows. Steel detachable chains are used and conveyor chain is malleable iron with detachable links. It will plant any depth from 3 to 5 inches by simply raising or lowering bearing plate. Better work cannot be done than will be done with a Scofield Planter. You can buy it for planting alone if you wish.

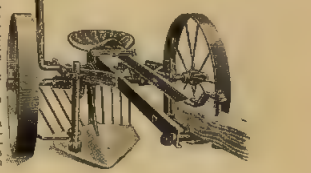


ILLUSTRATION SHOWS DIGGER ONLY.

Put in your next crop with a Scofield Planter.

AS A DIGGER. When used as a digger the planting attachments are removed and the digger is placed in position as shown in the bottom illustration. This attachment can be set to run any depth desired and will not run too deep or too shallow. The digging attachment is made entirely of iron and steel and will give satisfactory service in every respect. The seat being left in position when the planter is removed enables the operator to ride when digging.

The combination planter and digger is made of very best grade of material throughout. All parts are iron and steel except pole. This is a machine that with ordinary care should last a life-time.

Prices quoted are for either planter and digger combined or for planter and digger separately. Shipped direct to you from factory in Northern Illinois.

B-2651	Schofield Combined Planter and Digger. Weight 240 lbs.	$36.95
B-265	Schofield Planter Only. Weight 190 lbs.	33.00
B-2653	Schofield Digger Only. Weight 180 lbs.	32.00

PARIS GREEN
SHIPPED FROM MINNEAPOLIS.
Write us for Prices

GROCERIES
We Can Save You Money on Groceries
SEE PAGE 201 TO 212

"AGITATOR" Broadcast Seeder

We consider this Seeder the best Agitator Broadcast Seeder made. It is constructed of good materials throughout and we will guarantee it to give you complete satisfaction in every way.

Hopper is 11 feet long, very deep, giving great capacity. The sides are U-shaped and securely bolted to three partitions inside of hopper, all fitted with oil tubes for oiling axle. The Agitators on axle are adjustable and the grain is sown on scattering board under hopper so that equal distribution is insured, the amount sown being regulated by feed lever, with gauge attached to front of hopper, which is close behind the tongue bracket, which prevents breakage. Axle is made of steel 1¼ inch, is divided at center and each wheel turns independent of the others throughout the hopper. Steel wheels—36 inches high and fitted with 2½ inch tires, with right wheel keyed to axle and left idle. Grass seeder can be furnished if desired, as shown below, fitted with deflecting seed board, which is attached in the rear and is driven by chain direct from the axle and can be thrown in and out of gear independent of the grain feed, also fitted with gauge showing the amount of seed sown, which may be changed while sower is in motion. Doubletrees, singletrees or neckyoke not furnished. Shipped from Indiana factory.

B-2543—Agitator Seeder, weight about 375 pounds $39.95
B-2544—Agitator Seeder with Grass Seed Attachment weight about 415 lbs. 45.95

COMBINATION CLOD CRUSHER Pulverizer and Land Roller

Our combination Clod Crusher, Pulverizer and Land Roller crushes clods, pulverizes the soil, does not pack the surface, but leaves it in fine mellow condition for perfect seed bed. Helps the soil hold moisture. Great help to spring wheat and alfalfa seedings, as it gently packs the seed bed.

It is made in three sizes and two styles. Style "G" packs the subsoil, and also compresses the surface into the best seed bed to be obtained by any method for wheat, oats, millet, alfalfa, and other seeds. The edge is not quite so sharp as Style "U", which packs the subsoil and leaves the ground in small ridges, preventing the soil from drifting and blowing, it pulverizes thoroughly. They leave a perfect seed bed. Use it after sowing, and it will pack the soil about the seed, help germination, stimulate growth of your plants, and increase the yield. Roll your winter wheat after spring opens, and you will get an increase of from 10 to 20 per cent. When wheat, timothy, or clover has been lifted by alternate freezing and thawing, its use will pack the earth, and level the surface about roots, and save crops that would otherwise be lost. It is fine for leveling meadows. Rolls are of heavy cast iron. Each wheel works independently upon the steel axle, which turns free in its three hardwood bearings. State which style is wanted. Style "2" wheels, 4 inches wide and 18 inches diameter. Style "1" is 4 inches wide and 18 inches diameter. Ten foot size has center brace. Shipped direct to you from factory at Kansas City, Missouri

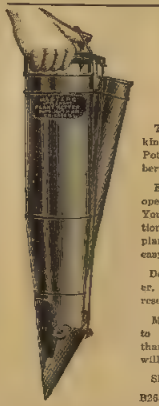
No.	Length	No. Wheels	Diameter	Weight	Price
B-2654—	7 feet	21	18 inches	950 lbs.	Write
B-2655—	8 feet	24	18 inches	1050 lbs.	or
B-2656—	10 feet	28	18 inches	1150 lbs.	Prices

Ajax Force Feed Broad Cast Seeder

WILL SOW 100 ACRES A DAY FITS ANY WAGON

The most perfect force feed seeder on the market. Even distribution and even feed. The flow of seed is uniform and the amount can be gauged exactly. The feed roller does not grind or crush the grain. The seeder can be thrown in or out of gear and the feed roller stops with the seeder. Two feed gauges, regulating the amount of seed, swing on pivots at either side of the feed opening. They work independently, so the machine can be set to increase or decrease the cast on either side. This is a special advantage in winds which would not allow the use of other seeders. It sows the same amount per acre whether the horses walk fast or slow. Furnished with end board to take the place of end gate, large sprocket wheel to attach to wagon wheel and all chains necessary to operate. Shipping weight, about 95 lbs. Shipped from factory in southern Wisconsin

B-2657—AJAX Force Feed End Gate Seeder $15.70
B-2658—Grass Seeder Attachment for above Seeder. Extra. 3.75



Master Rapid Plant Setter

CO-OPERATORS PRICE **$5.40**

The only practical tool for transplanting all kinds of plants, Tobacco, Tomato, Cabbage, Sweet Potato, Cauliflower, Peppers, Egg Plant, Strawberries and all similar plants.

Each plant is set, watered and covered in one operation without any stooping or lame backs. You walk along in an upright comfortable position and all the drudgery and backache of hand planting is done away with. Makes transplanting easy pleasant work.

Does perfect work even in hottest, driest weather, you will get a full stand of plants and no resetting to be done.

MORE THAN THREE TIMES AS FAST. 8,000 to 15,000 plants per day and very much easier than hand setting. This planter is durable and will last for years. Satisfaction Guaranteed.

Shipped direct to you from Chicago Factory.

B2660. Masters Plant Setter $5.40

Steel Land Roller

DRUMS ARE 24 INCHES OIL SOAKED HARDWOOD BOXES

This is one of the strongest and best land rollers on the market. This closed head roller has pressed steel head and wrought steel hangers. Is made with 24 inch drum of 12 gauge steel. Axles are 1¾ inch steel. The steel hanger is perfectly stiff and rigid and guaranteed thoroughly oil soaked which we believe will outwear any box made. We consider this the best roller now being built. No neckyoke or doubletrees furnished. Shipped direct to you from factory at Kansas City, Missouri

Very Rigidly Built

B-2660. Land Roller, 7 feet, 3 Sections, Weight, 530 lbs. ..... Write for Prices
B-2661. Land Roller, 8 feet, 3 Sections, Weight, 580 lbs ..... Prices

HANGING LAMPS

COMMON

For Kitchen, Camp, Office, etc.

Glass Fount, 1½ Pint Capacity No. 02 Japanned Harp; 15 in. Tin Reflector, Bright Inside, Green Outside; No. 2 Burner, Wick and Chimney.

Per Dozen

No. 2—With Shade; Weight per Dozen 34 Lbs..... $10 00

On r Stock

MAMMOTH

For Stores, Halls, Churches, etc.

Can be Lighted without Removing Chimney; Wick Regulator shows whether Wick is Raised or Lowered; Oil Indicator shows the amount of oil in Fount; Gives a Light of 300 Candle Power, and burns 8 to 10 Hours; Capacity of Fount, 1 Gallon; Patent Drip and No Possible Leak.

Each

No. 1267—Polished Brass Fount, 8¾ in. in Diameter. Complete with Harp and 20 in. Corrugated Tin Reflector, Green Outside and Bright Inside. Takes No. 00 Belgian Chimney and 00 Belgian Wick ..... $ 00

One in a Box; Weight 20 Lbs. Each

SEWING LAMP STANDS

SOLD I COMPLETE ASSORTMENTS ONLY

No. 6A—STAND
5-6 Dozen
Weight 9 in.; Diameter of Bowl 4½ in., Oil Capacity 13 oz.

No. 6B—STAND
5-6 Dozen
Height 10 in.; Diameter of Bowl 5 in.; Oil Capacity 20 oz.

No. 6C—STAND
1-3 Dozen
Height 8½ in.; Diameter of Bow 5½ in Oil Capacity 24 oz.

Assorted as above, Without Burners, Chimneys or Wicks

No. 6—Contains Twenty-Four Clear Crystal Glass Sewing Lamps, Fitted with Chuch-on Collars for No. 2 Burners . . . . . Per Assortment $10 00

One Assortment in a Barrel. Shipping Weight About 90 Lbs.

RIFLES

REMINGTON

Model 6, Take-Down, Single Shot

No. 226-R 22 caliber, shoots BB, CB, 22 short, long and long rifle rim fire cartridges.....Each, $10.46

No. 326-R 32 caliber, shoots 32 short and long rim fire cartridges.....Each, $10.46

Model 12, Take-Down, Repeating

Standard Grade.

No. 2209-S—Chambered to take without adjustment 22 Short, 22 Long and 22 Long Rifle Cartridges; magazine holds fifteen 22 Short, twelve 22 Long or eleven 22 Long Rifle Cartridges; 22-in. Remington steel round barrel, straight grip, shotgun butt with rubber butt-plate; weight 4½ lbs.....Each, $28.48

Target Grade.

No. 2209-T—Chambered to take without adjustment 22 Short, 22 Long or 22 Long Rifle Cartridges; 24-in. octagon barrel, straight grip, steel rifle butt-plate, otherwise same as No. 2209S.....Each, $31.95

No. 2209-WRF—Chambered to shoot 22 Remington Special Cartridges (22 WRF); magazine holds 9 cartridges; otherwise same as No. 2209-T.....Each, $31 95

Gallery Grade.

No. 2209-G—Chambered for 22 Short only, 24-in. octagon barrel, pistol grip stock with rubber butt-plate; otherwise same No. 2209-S.....Each, $31.95

Model 14-A, Take-Down, Repeating

High Power, Standard Grade

Solid breech, light recoil, spiral magazine, American walnut half-pistol grip stock and fore-end, shotgun style steel butt-plate, patent quick-adjustable buckhorn rear sight, new design copper bead front sight.

22 Inch Round Steel Barrels.

No. 2514-A 25-caliber Remington rimless.....Each, $58.35
No. 3014-A—30-caliber Remington rimless.....“ 58.35
No. 3214-A—32-caliber Remington rimless.....“ 58.35
No. 3514-A—35-caliber Remington rimless.....“ 58.35

Weight, 6¾ lbs.

CARBINES

No. 3014½-R—30 caliber; magazine contains 9 cartridges. 18½ in. Remington steel, round barrel, American walnut stock, fitted with shotgun metal butt plate; straight grip; quick adjustable straight bar rear sight, new design copper bead front sight Weight, 6½ lbs. Each, $58 35

REMINGTON

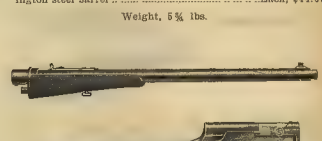
Auto-Loading, Take-Down

Standard Grade

Straight grip stock of American walnut, steel rifle butt-plate, magazine holds 16 cartridges.

No. 2216-A 22 Remington Auto caliber, rim fire, 22-in. Remington steel barrel.....Each, $44.60

Weight, 5¾ lbs.



Model 8, Take-Down, Standard

Straight stock, shotgun butt, rubber or steel butt plate, box magazine, 5 shots, 22-in. round barrel.

No. 2535—25-caliber Remington rimless.....Each, $72 25
No. 3035—30-caliber Remington rimless.....“ 73.25
No. 3225 32-caliber Remington rimless.....“ 73.25
No. 3535—35-caliber Remington rimless.....“ 73.25

Weight, about 7¾ lbs.

EXTRA CARTRIDGE CLIPS

25, 30, 32, 35 Caliber—For Auto Loading Rifle.....Each, $0.20

MARBLE'S GAME-GETTER GUNS

Double barrel. Upper barrel is 22 caliber, rifled, lower barrel 44 caliber, smooth bored. Drop-forged blued steel frame, single trigger, rubber grip, nickel-plated stock.

No. B-12—12-in. barrels, lock leaf sight, gold bead sight and holster. Weight, 4¼ lbs.....Each, $15.00

No. A-12—12-in. barrels, flexible rear sight, lock leaf sight, gold bead sight and holster. Weight, 4¼ lbs.....Each, $18.00

No. A-15—15-in. barrels; otherwise same as No. A-12.....Each, $19.00

No. A-18—18 in. barrels; otherwise same as No. A-12.....Each, $20.00

SEATTLE HARDWARE COMPANY

RIFLES

SAVAGE

Model 1904, Take-Down, Single Shot

No. 2204-STD 22 caliber, chambered for short, long and long rifle cartridges, 18-in. round barrel. Weight, 3 lbs. ..... Each, $9.75

Model 1914, Hammerless, Take-Down, Tubular Magazine, Repeating

No. 2214-STD—22 caliber, 24-in. octagon barrel, shotgun full pistol grip, with steel butt plate. Chambered for 22 short, long and long rifle cartridges. Weight each, 5¾ lbs. ..... Each, $25.50

New N. R. A., Model 1919

No. 1919-NRA—22 Savage Repeating Rifle. Chambered for 22 long rifle cartridges. Bolt action. Box magazine Special front and rear sights. Adjustable for elevation and windage. ..... Each, $35.00

Model 1899, Repeating

Solid frame, straight stock, box magazine, 6 shots.

No. 3099—30-30 Caliber, 26-in., round barrel.. Each, $48.00
No. 30399—303 Caliber, 26-in., round barrel " 48.00
Weight, 7½ lbs.

Model 1899, Take-Down

Straight stock, box magazine, 6 shots.

No. 3099-TD—30-30 caliber, 26-in. round barrel....Each, $53.00
No. 30399-TD 303 caliber, 26-in. round barrel..... " 53.00
Weight, 7½ lbs.

Model 1899, Featherweight, Take-Down

Straight stock, box magazine, 6 shots.

No. 3099-FTD 30-30 caliber, 20-in. barrel.... ...Each, $55 00
No. 30399-FTD—303 caliber, 20-in. barrel. ... ... " 55.00

Model 1899, Hi-Power, Featherweight, Take-Down

The 22 Savage Hi-Power Rifle is the lightest high-power rifle made. It is a hammerless, 6-shot repeater, and is built with the Savage strong and durable take-down feature. This is the simplest and most convenient ever devised in a high-power rifle.

No. 2299-FTD—22 caliber, shoots 22 Hi-Power Cartridges, 20-in. round barrel..... Each, $55.00

250/3000 Caliber, Take-Down

Checkered, Full Pistol Grip and Free End, Corrugated Steel Shotgun Butt Plate.

No. 250-3000—250-3000 Caliber, 22-in. round barrel. ..... Each, $60.00

The 3000 means that it has a velocity of 3000 feet per second. The bullet is 87 grains.

Model 1920, 250/3000, Bolt Action

No. 1920—250/3000 Caliber, 22 in. round barrel. Checkered, full pistol grip and fore-end. Corrugated steel shotgun butt plate..... Each, $75.00

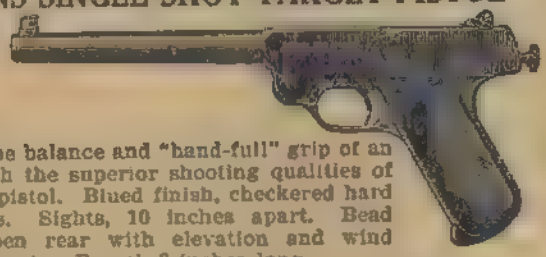
MARBLES GAME GETTER GUN
TWO GUNS IN ONE, FOR SHOT OR BALL

Target Rifle or Pistol—Big Game Gun—Shotgun.
The only all around arm.

Upper barrel 22 calibre, lower barrel, 44 calibre. Smooth bore. Shoots 22 C. B. 22 short, long and long rifle, 44 shot, 44/40 round ball cartridges, 410 gauge shot shells. Round blued barrel. Drop forged frames, steel tubing stock. Nickel plated. With finest case leather holster. Flexible rear sight lock leaf sight and gold bead front sight. Each gun packed in a wooden box.

No. A12—12-inch barrels. Net weight, 2¼ lbs.....Each $21.00
No. A15—15-inch barrels. Net weight, 2½ lbs..... " 22.25
No. A18—18-inch barrels. Net weight, 2¾ lbs..... " 22.50

STEVENS SINGLE SHOT TARGET PISTOL



Combines the balance and "hand-full" grip of an automatic with the superior shooting qualities of a single shot pistol. Blued finish, checkered hard rubber stocks. Sights, 10 inches apart. Bead front and open rear with elevation and wind gauge adjustments. Barrel, 8 inches long.

No. 10—22 long rifle calibre. Length over all, 11½ inches. Weight, about 2¾ lbs.....Each $23.00

REVOLVERS
BABY HAMMERLESS

A double action, small frame revolver with a folding trigger. Length over all, 4 inches. Shoots 22 Short Rim Fire Lesmok or Smokeless Cartridge

22 Calibre. Rim Fire. 6 Shots

Nos.	BH221¼N	BH221¼B
Length barrel, inch	1¼	1¼
Finish	Nickel	Blued
Stock	Rubber	Rubber
Each	$5.00	5.50

REMINGTON—HAMMERLESS

Side ejection. Automatic grip safety prevents firing unless handle is grasped and trigger pulled. Permits carrying fully cocked with entire safety. Magazine removal automatic safety rear lock prevents firing if a cartridge is left in chamber when magazine is removed.

Model 51—380 calibre, 8 shots. Length over all, 6⅝ inches
Weight, 21 ozs.....Each $30 00
Extra clips (or magazine) complete..... " 1.50

AUTOMATIC PISTOLS
SAVAGE HAMMER

Action is automatic except that the trigger must be pulled to fire each shot. Has safety lever on side to lock the entire mechanism. There are no screws in any part, which is very important in an automatic pistol. Adapted to 32 calibre Colt's automatic cartridges. Blued finish. Length over all, 6½ inches.

No. SA32—32 calibre. 10 shots, weight, 19 ozs.....Each $25.00
No. SA380—380 calibre. 10 shots, weight, 19 ozs.... " 26.00

Extra Magazines

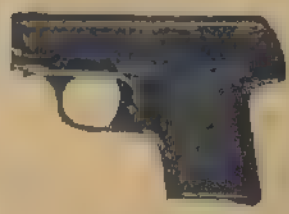
No. SM32—32 calibre, 10 shots. To fit 32 Savage Automatic Pistol, hammer model.....Each $1.50
No. SM380 380 calibre, 10 shots. To fit 380 Savage Automatic Pistol, hammer model.....Each $1.50

H. & R. SELF-LOADING—AUTOMATIC

A separate pressure on the trigger is required for each shot. Three safety devices are provided, one operated by the thumb of the right hand and two are entirely automatic, thus insuring absolute safety in handling and carrying. The grip safety positively locks the sear and the firing pin cannot be released until the grip safety is pressed in. It is impossible to fire the pistol by a jar of any kind. Blued finish. Adapted to .32 automatic Colt cartridges.

Length of barrel, inch	3½
Length of pistol over all, inch	6⅝
Weight, ozs	22
No. HRA32—32 calibre. 8 shots	Each $23 00
Extra magazines	" 1 25

ASTRA AUTOMATIC PISTOLS



25 Calibre

32 Calibre

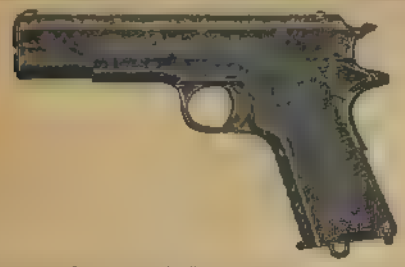
Imported automatic pistol, blue finish, rubber stock. Action is automatic except that the trigger must be pulled to fire each shot. (Continued discharge will not result in one pull of trigger.) Safety device on side of pistol.

	32 Calibre, 9 Shots	25 Calibre, 6 Shots
Length of barrel, inch	3½	2¼
Length over all, inch	6	4¼
Weight each, ozs	29	13
Each	$20 00	20 00
Extra magazines	Each 1.50	1.50

AUTOMATIC PISTOLS

COLTS

GOVERNMENT AND MILITARY MODEL

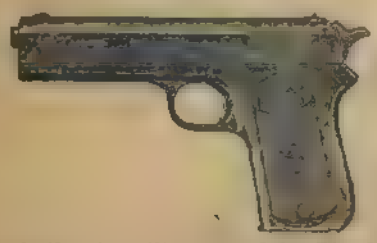


Action is automatic, except that trigger must be pulled to fire each shot. Can be discharged at the rate of 5 shots per second. On pulling the trigger the cartridge is fired, empty shell is ejected, and a new cartridge loaded into the chamber. All of these operations take place automatically without any manipulation of the arm. In this model the slide remains open after firing the last cartridge. Blued finish.

No. CA45 Govt.—45 Calibre, Government Model, 7 shots. Checkered walnut stocks. 5-inch barrel. Length over all, 8½ inches. Adapted to shoot 45 calibre Colts automatic cartridges. Weight each, 39 ounces.
Each **$42.00**

No. CA38M—38 Calibre, Military, 8 shots. 6-inch barrel. Length over all, 9 inches. Adapted to shoot 38 calibre Colts automatic cartridges. Weight each, 37 ounces.
Each **$48 00**
Extra Clips (or magazines), complete..... **Each $2.00**

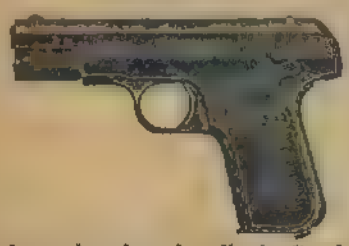
POCKET MODEL



Action similar to military model. Blued finish.

No. CA38P—38 Calibre, Pocket model, 7 shots. 4½-inch barrel. Length over all, 7½ inches. Weight each, 31 ounces.
Each **$45 00**
Extra Clips (or magazines), complete ..... **Each $1 75**
Adapted to shoot 38 calibre Colts automatic cartridges.

HAMMERLESS



Cannot be discharged unless handle is firmly grasped when the trigger is pulled. It is impossible to discharge the arm by pulling the trigger unless the automatic safety is compressed. Blued finish. Action of this pistol is automatic except that the trigger must be pulled to fire each shot.

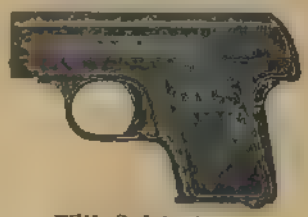
No. CA32—32 Calibre, Pocket model, 8 shots. 3¾-inch barrel. Length over all, 6¾ inches. Weight each, 23 ounces.
Each **$25.00**

No. CA380—380 Calibre, 8 shots. Otherwise same as No. CA32.
Each **$25.00**
Adapted to shoot 32 and 380 calibre Colts automatic cartridges.

COLTS

Action is automatic, except that trigger must be pulled to fire each shot (continued discharge will not result in one pull of the trigger). The arm cannot be discharged unless hand is grasped firmly on safety grip, making it impossible for accidental discharge. Besides this action safety device, it has one other positive safety on side. Adapted to 25 calibre Colts automatic cartridges. Blued finish.

HAMMERLESS



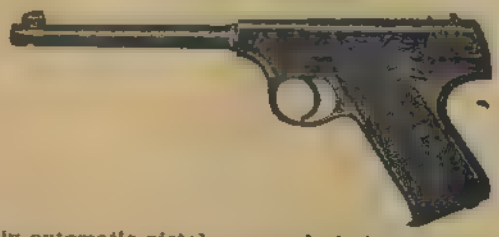
With Safety Device

No. CA25—25 Calibre, 6 shots. Length of barrel, 2 inches. Length over all, 4½ inches. Weight each, 13 ounces.
Each **$22.00**

No. CA25P Same as No. CA25. Pearl stocks. Weight each, 13 ounces.
Each **$32 00**

Extra Clips (or magazines) complete for 25 calibre pistols.
Each **$1.50**
Adapted to shoot 25 calibre Colts automatic cartridges.

22 TARGET MODEL



The only automatic pistol now made to handle **22 calibre long rifle cartridges.** Full blued checkered English walnut stock. Bead front sight, adjustable for elevation. Rear sight with adjusting screw for windage. Blued finish. Length of barrel, 6½ inches. Length over all, 10½ inches. Weight each, 28 ounces.
No. CA22T—22 Calibre, 10 shots..... **Each $35.00**
Extra Clips (or magazines), complete..... **" 2.75**

SINGLE ACTION REVOLVERS

ARMY AND FRONTIER MODEL

Blued Finish. Six shots. Jointless, solid frame. Rod ejection. Rubber stocks. The 32 calibre shoots 30-20 rifle cartridges; the 38 calibre, 38 short and long Colts; 38-40, 38 S. & W. Special; the 41 calibre, 41 short and long Colts, and the 44 calibre, 44 S. & W., Russian and 44-40 Winchester cartridges.

Nos.	Calibre	Length of barrel inch	Each	Nos.	Calibre	Length of barrel inch	Each
SA3243¼	32-20	4¾	$36.75	SA4414¾	41 Colt	4¾	$36 75
SA3253½	32-20	5½	36 75	SA4153½	41 Colt	5½	36.75
SA3271½	32-20	7½	36 75	SA4171½	41 Colt	7½	36 75
SA3843¼	38-40	4¾	36.75	SA4443¼	44-40	4¾	36.75
SA3853½	38-40	5½	36.75	SA4453½	44 40	5½	36.75

Weight each, 37 to 46 ozs., according to length.

MARBLE'S GAME GETTER GUN

Marble's Game Getter Gun Shoots All of These Cartridges

The Game Getter can be safely used with Smokeless Powder. The .22 and .44 Bullets shoot to the point blank range of 50 feet with sights set the same. There is very little recoil on account of .44 barrel being Cylinder Bored.

The Striker on Hammer is quickly set with the thumb for either barrel or at Safe. The Folding Stock locks automatically at any drop for which it is set. Is easily removed.

With the holster hung over shoulder and under coat the Game Getter is invisible, but can be speedily drawn and very handily used in one hand with stock hanging down or thrown to position. In either place the stock only aids in the balance of the gun.

This Gun is the Ideal Arm for the Fisherman, Motorist and Vacationist, and all classes of people whose business or pleasure calls them to the woods, fields or waters.

The Big Game Hunter with a Game Getter for a side arm secures with little noise and no mutilation the small game he runs across and enjoys target practice without the jar and expense of firing his heavy ammunition.

The Game Getter's utility, simplicity of construction, careful design, perfect safety, absolute reliability and superior accuracy are the qualities which are making it famous the world over.

SPECIFICATIONS

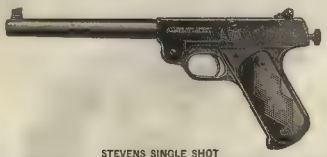
Barrels—Round, Blued, 12 in. | **Trigger** Single. | **Stock**—Steel Tubing, Nickeled. | **Holster**—Finest Case Leather, Brown or Black.
Frame Drop-Forged, Blued. | **Grips**—Rubber. | **Weight**—About 2¼ Lbs.

Each

No. A—22 Caliber Rifle Barrel and 44 Caliber Smooth Barrel, 12 in. Long; Equipped with Marble's Flexible Rear Sight, Lock Leaf Sight, Ivory Bead Sight and Holster. $30 00

One in a Cardboard Box

PISTOLS



STEVENS SINGLE SHOT

Combines the Balance and "Hand-Full" Grip of an Automatic with the Superior Shooting Qualities of a Single Shot Pistol

Blue Steel Barrel and Hinged Frame; Checkered Hard Rubber Stocks; Bead Front and Open Rear Sight with Elevation and Windage Adjustments; Sights 10 in. Apart

Each

No. 10—Chambered for 22 Long Rifle Cartridges; Length of Barrel, 8 in., Length Overall, 11½ in. $20.00
Weight, 2¾ Lbs.

HUNTERS' AXES

MARBLE'S SAFETY POCKET AXES

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; Nickel Plated Steel Handle with Engraved Hard Rubber Plates.

Each

No. 1—Weight 16 Oz. Each; Length 10 in.; Length of Head 3⅝ in.; Width of Bit 2½ in.....$2.50

No. 3—Weight 27 Oz. Each; Length 12 in.; Length of Head 4⅜ in.; Width of Bit 2⅝ in.....3.00

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; Nickel Plated Steel Handle with Engraved Hard Rubber Plates.

Each

No. 2—Weight 20 Oz. Each; Length 11 in.; Length of Head 4 in.; Width of Bit 2⅜ in.....$2.50

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; Selected Hickory Handle, Steel Lined Groove

Each

No. 4—Weight 24 Oz. Each; Length 12 in.; Length of Head 4⅜ in.; Width of Bit 2⅝ in.....$1.75

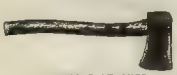
No. 5—Weight 16 Oz. Each; Length 11 in.; Length of Head 4⅛ in.; Width of Bit 2½ in.....1.50

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; Selected Hickory Handle, Steel Lined Groove

Each

No. 6—Weight 20 Oz. Each; Length 12 in.; Length of Head 4¾ in.; Width of Bit 2⅞ in.....$1.50

All the Above Axes Have a Spring Hinged, Nickel Plated Steel Guard, Lined with Lead, which Protects Edge When Axe is Not in Use or Folds into Groove in Underside of Handle When Ready to Chop



MARBLE'S BELT AXES

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; 14 in. Hickory Handle.

Each

No. 9—Weight 24 Oz. Each; Length of Head 4 in., Width of Bit 2¾ in.....$1.00

MARBLE'S CAMP AXES

Solid Tool Steel Blade, Highly Tempered, Polished and Sharpened; 27½ in. Clear Straight Hickory Handle.

Each

No. 15—Weight 2½ Lbs.; Length of Head 7⅜ in., Width of Bit 3⅜ in.....$1.50

CAMP HATCHETS

Full Polished; Extra Quality Crucible Steel Blade, Carefully Tempered and Sharpened; Selected Hickory Handle, 13 in. Long.

Each

No. 50—Weight 1¾ Lbs., Length of Head 5¼ in., Width of Bit 3¼ in.....$1.00

No. 55—With Leather Holster, Otherwise same as above.....1.25

AXE EDGE PROTECTORS

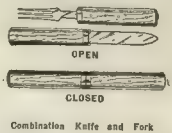
For Men's and Boys' Handled Axes

To Protect the Blade of Axe, when Packed with Camp Kit, or carried in Wagons, etc.; Made of Steel, Lined with Wood Fibre; Has Hinged Joint and Wire Spring which holds Protector firmly on the Blade.

For Blade, in.....3⅝, 4, 4½, 4¾, 5, 5½

Per Dozen, All Sizes.....$3.00

CAMPERS' TABLE SETS



Combination Knife and Fork

Per Dozen Set

No. 100—8 in. Picnic or Camping Set; Combination Knife and Fork; 4 in. Rosewood Handle, Brass Ferrule, 2⅛ in. Highly Tempered Steel Blade with Three-Tined Fork to Match; Knife and Fork Slide into the Opposite Way, Is Suitable for Carrying in Lunch Baskets or will fit nicely in the Vest Pocket.....$0.08

One Dozen Sets in a Box

MAULS

RAILROAD

Crucible forged steel, oil finish, with oval eye. Hardened face. One large and one small face.

STANDARD

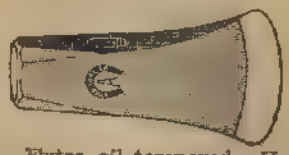
No. 125—		
Weight each, lbs	8	10
Length over all, inch	10¾	12½
Per pound	$0.30	.30

VERONA

No. 100—	
Weight each, lbs	8
Length over all, inch	10¾
Per pound	$0.40

Loose.

ROUND EYE



Solid forged steel. Extra oil tempered. Hardened and polished face.

No. 20—					
Weight each, lbs	6	7	8	9	10
Length, inch	8½	8	9¼	9½	10¼
Per pound	$0 36	.36	.36	.36	.36

Loose.

STAR BRICK OR CROSS DRILLS

Forged from highest grade tool steel. Special tempered. Oil finish, with polished ends.

SHORT PATTERN

Width of bit, inch	¼	5/16	⅜	½	⅝	¾
Length, inch	12	12	12	12	12	12
Diameter of steel, inch	5/16	5/16	¼	⅜	7/16	½
Weight per dozen, lbs	2½	3	3½	5	7	8½
Per dozen	$6 50	8.50	8.50	10.00	12.00	14.00

LONG PATTERN

Width bit, in	¼	⅜	½	⅝	¾	⅞	1
Length, inch	18	18	18	18	18	18	18
Diameter of steel, in.	5/16	¼	⅜	7/16	½	¾	¾
Weight per doz., lbs	3½	4½	7½	10	12½	20	23
Per dozen	$11.00	11.00	12.50	15.00	17.50	20.00	22.50

¼ to ½, one dozen in cardboard box; balance, one-half dozen.

BITUMEN CUTTERS

Solid forged special tool steel. Extra heavy. Cutter and head specially hardened and tempered.

No.	10
Length over all, inch	13½
Width of cutter, inch	5
Dimensions at eye, inch	2¼x2⅜
Weight each, lbs	15
Each	$12.00

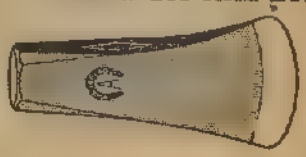
Loose.

SHIP OR TOP
ATHA

Single face. Tapering end. Blued finish. Polished ends.

No. 70—				
Weight each, lbs	4	4½	5	
Length, inch	8	8½	8¾	
Per pound	$0 42	.42	42	
Weight each, lbs	5½	6	7	8
Length, inch	9	9	9	9¼
Per pound	$0.42	.42	.42	.42

DOUBLE BIT AXE EYE



No. 21—					
Weight each, lbs	6	7	8	9	10
Length, inch	8½	9	9¼	9½	10¼
Per pound	$0.36	.36	.36	.36	.36

POST

Cast iron head. Japanned finish. Adze eye.
36-inch Hercules Post Maul handles.

No. 24—Handled.					
Weight head, lbs	8	10	13	16	18
Length over all, inch	36	36	36	36	36
Weight per dozen, lbs	124	148	184	220	244
Per dozen	$24.00	27.00	30.00	36 00	40.00

No. 2—Unhandled					
Weight each, lbs	8	10	13	16	18
Length, inch	5½	5	5¼	5⅜	6
Diameter face, inch	4	4	4	4	4¼
Per pound	$0 16	.16	.16	.16	.16

CONCRETE GADS

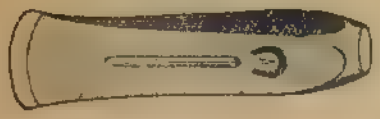
Made of crucible tool steel. Diamond point.

Nos	20-square	30-octagon
Dimensions, inch	1½x1½x26	1½x26
Weight each, lbs	15	15
Each	$12.00	12.00

All above, loose.

WEDGES

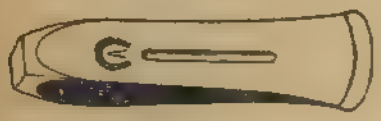
TRUCKEE PATTERN



Solid forged steel. Hardened head and bit. Oil finish.

No. 50—Round head

Weight each, lbs	2	3	4	5	
Length, inch	6½	8¼	9¾	10½	
Each	$0.38	.55	.75	.95	
Weight each, lbs	6	7	8	9	10
Length, inch	10¾	11½	12½	12½	12¾
Each	$1.15	1.30	1.50	1.70	1.90



Solid forged steel. Hardened head and bit. Oil finish.

No. 51—With flat square head

Weight each, lbs	2	3	4	5	6	7	8
Length, inch	8½	9	9½	10	10½	11	12
Each	$0.38	.55	.75	.95	1.15	1.30	1.50

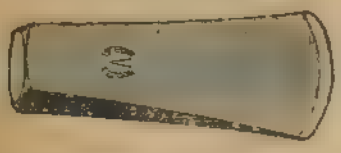
OREGON PATTERN

Solid forged steel. Hardened head and bit. Oil finish.

No. 65—

Weight, ea, lbs	4	4½	5	5½	6	7	8	9	10
Length, in	8	8¼	8½	8¾	9	9½	10	10¼	10½
Each	$0.84	.94	1.05	1.15	1.26	1.47	1 68	1.90	2.10

REDWOOD OR CEDAR PATTERN



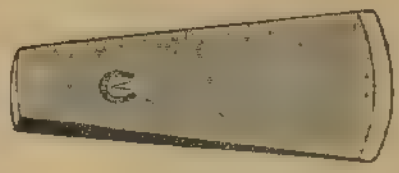
Solid forged steel Hardened head and bit. Oil finish.

No. 75—

Weight ea, lbs	4	5	6	7	8	9	10
Length, inch	8	8½	9	9½	10½	10¾	11
Each	$0.84	1.05	1.26	1.47	1.68	1.90	2.10

FALLING

PUGET SOUND PATTERN



Solid forged steel. Hardened head and bit. Oil finish.

No. 43—Weight each, lbs	6	7	8	10
Length, inch	10½	12	13	14
Per pound	$0.40	.40	.40	.40

BUCKING

PUGET SOUND PATTERN

Solid forged steel. Hardened head and bit. Oil finish.

No. 78—Weight each, lbs	5	6	7	8
Length, inch	8	9	9½	10¼
Per pound	$0.40	.40	.40	.40

CALIFORNIA OR ORGEON FALLING PATTERN

Solid forged steel Hardened head and bit. Oil finish.

No. 44—

Weight ea, lbs	4	5	6	7	8	9	10
Length, inch	8	9½	10½	11	12	12½	13
Per pound	$0.40	.40	.40	.40	.40	.40	.40

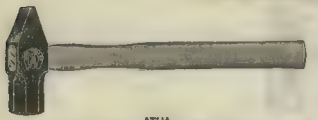
HARMON PATTERN

Malleable iron, wood head, malleable ring, complete.

No.	42
Length over all, inch	16
Width at point, inch	4¼
Diameter of head, inch	2¾
Weight per dozen, lbs	73
Per dozen	$21 00
Extra woods, per dozen	4.50
Extra rings, per dozen	8.50

All above, loose.

PLOW OR ENGINEERS HAMMERS



ATHA
Single Face. Black Finish. White Hickory Handles

Nos.	860-2	860-2½	860-3
Weight, Lbs.	2	2½	3
Per Dozen	$31 75	33.00	36.00

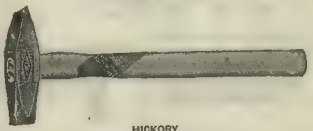
Open Stock

ATHA
Double Face. Polished. Hickory Handles

	Per Dozen
No. 392—Size 2; Weight Each, 2 Lbs. 6 Oz.; Length Overall, 16 in.	$30.00

One-third Dozen in a Box

RIVETING HAMMERS

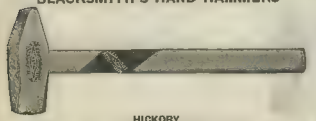


HICKORY
Full Polished, Selected Hickory Handles

Nos.	230H	231H	232H	233H	234H
Size	0	1	2	3	4
Weight, Lbs.	¼	⅜	⅝	¾	⅞
Per Dozen	$16.50	17.50	18.00	19.00	19.50

Half-Dozen in a Box

BLACKSMITH'S HAND HAMMERS

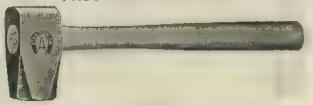


HICKORY
Full Polished. Selected Hickory Handles

Nos.	400H	401H	402H	403H
Size	0	1	2	3
Weight, Lbs.	1½	2	2½	3
Per Dozen	$29.00	31.50	33.50	36.50

Half-Dozen in a Box

PROSPECTING HAMMERS



ATHA
Full Polished. Selected Hickory Handles

	Per Dozen
No. 262—Size 2, Weight 1¾ Lbs.	$35.50

Half-Dozen in a Box

PROSPECTING PICKS

ATHA
Full Polished. Extra Hickory Handles

	Per Dozen
No. 251—Size 1; Weight 1 Lb.	$34 00

Half-Dozen in a Box

BRICKLAYERS HAMMERS

HICKORY
Black Oil Finish, Polished Face. Hickory Handles

Nos.	431½H	432H
Length Overall, In.	12	12
Weight, Lbs.	1½	2
Per Dozen	$29.00	31.00

MACHINISTS HAMMERS

HICKORY

Nos.	Ball Pein. Polished. 306H	Extra Hickory Handles 307H	308H	309H	310H
Size	00000	0000	000	00	0
Weight, Lbs.	¾	¾	¾	¾	1
Per Dozen	$19 00	19 00	19.00	20.00	21.00

Nos.	311H	312H	314H	316H
Size	1	2	4	6
Weight, Lbs.	1¼	1¾	2	2½
Per Dozen	$22 50	25.00	27.50	30.00

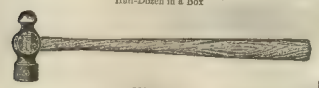
Half-Dozen in a Box

ATHA

Nos.	Ball Pein. Special Black Finish. 308½	Selected Hickory Handles 309½	310½	311¾
Size	000	00	0	1
Weight, Lbs.	½	¾	1	1¼
Per Dozen	$17 00	17 00	18 00	19 50

Nos.	312¾	314½	316½
Size	2	4	6
Weight, Lbs.	1¾	2	2½
Per Dozen	$21 50	24.00	27 00

Half-Dozen in a Box



MAYDOLE

Nos.	Ball Pein. 771	Oil Finish. 772	Selected Hickory Handles 773	774	775	776	777
Wt. Head, Lbs.	1¼	1½	1¾	1	⅞	¾	¾
Per Dozen	$24.60	22.25	20.50	18.70	17.30	16.10	15.20

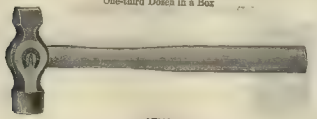
One-third Dozen in a Box

HAN-D

An All Metal Ball Pein Hammer and Three Screw Drivers Combined in One Practical Tool. Hammer Head and Screw Driver Blades are made of the Best Quality Steel, Carefully Tempered. Entire Set is Highly Polished and Handsomely Nickel Plated. Per Set

No. 9—2¾ in. Hammer Head, with ⅝ in. Face, Hollow Metal Handle, 6¾ in. Long, Containing Three Screw Drivers. Net Weight, 10 Oz. $3 00

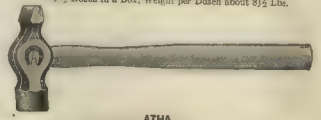
1½ Dozen in a Box; Weight per Dozen about 8½ Lbs.



ATHA

Nos.	Straight Pein. Polished. 332	Selected Hickory Handles. 334
Size	2	4
Weight, Lbs.	1¾	2
Per Dozen	$27.50	31.00

Half-Dozen in a Box



ATHA

Nos.	Cross Pein. Polished. Selected Hickory Handles 352	354
Size	2	4
Weight, Lbs	1¾	2
Per Dozen	$27.50	31.00

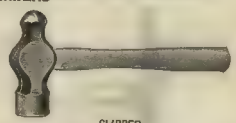
Half-Dozen in a Box

AUTOMOBILE HAMMERS

ATHA

Nos.	Ball Pein. Polished. Extra Short Hickory Handle 308A	309A
Size	000	00
Weight, Lbs.	½	¾
Per Dozen	$19.00	20.00

Half Dozen in a Box



CLIPPER

Nos.	Ball Pein. Cast Steel with Hardened Face; Hickory Handle 8C	12C
Size	21	4
Weight, Lbs.	1½	3
Per Dozen	$13.00	15.00

Half-Dozen in a Box

HAMMERS

Drop forged from high grade crucible steel. Oil tempered face and pein. Hickory handles. Plain eye, polished.

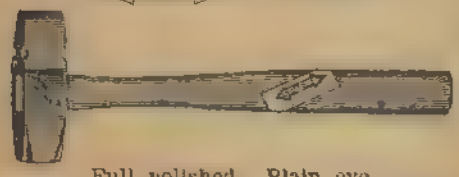
Nos.	SR0	SR1
Weight without handles, lbs	¼	⅜
Weight per dozen, lbs	5	8
Per dozen	$22.50	24.50

Nos.	SR2	SR3	SR4
Wgt without hdls, lbs	½	⅝	¾
Weight per dozen, lbs	9½	13	18
Per dozen	$24.50	26 00	27.75

Plain eye. Cross pein. Full polished.

Nos.	SR2	SR3
Weight without handle, lbs.	2⅝	3
Length over all, inch	16	16½
Weight per dozen, lbs	36	43
Per dozen	$36 00	37.50

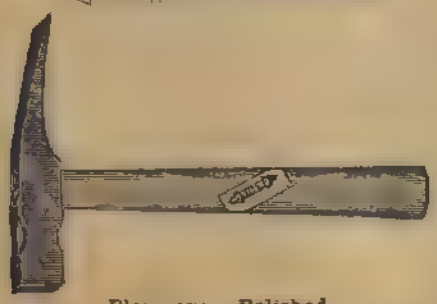
COOPERS



Full polished. Plain eye

No.	SC424
Weight without handle, lbs	4
Length over all, inch	10
Weight per dozen, lbs.	55
Per dozen	$36 00

BRICKLAYERS



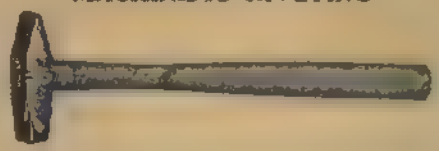
Plain eye. Polished

No.	S 25
Weight unhandled each, lbs	1½
Length over all, inch	11
Weight per dozen, lbs.	24
Per dozen	$31.50

MAYDOLE

Solid forged crucible tempered steel. Hardened face and pein. Hickory handles varnished. Plain eye polished.

MACHINISTS RIVETING



Nos.	42	43	44
Wt without hdls, lbs	½	⅝	¾
Weight per doz, lbs	13	8	5
Per dozen	$21.00	18.00	16 75

BLACKSMITHS HAND

Polished. Plain eye. Cross pein.

Nos.	61	62
Weight without handle, lbs.	3	3½
Length over all, inch	15	15
Weight per dozen, lbs.	40	37
Per dozen	$40 00	36 00

MAYDOLE CHIPPING

Straight pein, oil finish.

No.	108
Weight without handle, lb.	3½
Weight per dozen, lbs.	37
Per dozen	$21.80

PROSPECTING OR PICK POINTING

Round octagon face Straight rounding back. Polished.

No.	SP2
Weight without handle, lbs	1¾
Length over all, inch	15
Weight per dozen, lbs	27
Per dozen	$42.75

Above, one-half dozen in a box

STANLEY

Made from special steel. Carefully forged and tempered. Select second growth hickory handles. Polished and warranted.

No. 147—			
Size, ounces	4	7	
Size number	0	1	
Weight per dozen, lbs.	4½	7½	
Per dozen	$14 40	15 00	
Size, ounces	9	12	15
Size number	2	3	4
Weight per dozen, lbs	9	12	15
Per dozen	$15.36	16.20	16.80

STANLEY

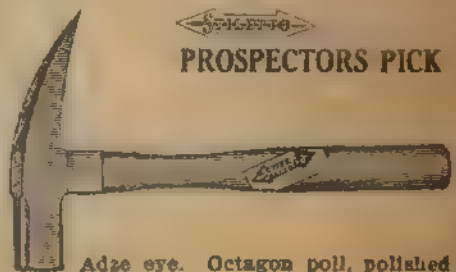
No. 49—			
Size, ounces	32	42	48
Size number	2	3	4
Weight per dozen, lbs	24	32	36
Per dozen	$25 20	26 40	28 20

TINNERS PANEING

Square face. Polished plain eye.

No.	S 2
Weight without handle each, lbs	¾
Weight with handle per dozen, lbs	14
Per dozen	$22 56

PROSPECTORS PICK



Adze eye. Octagon poll, polished

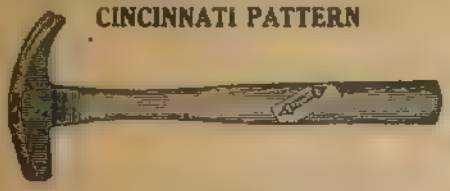
No.	S 1
Length of handle, inch	13
Weight without handle, lb	1
Length of head, inch	7½
Weight per dozen, lbs	22
Per dozen	$34 00

HAMMERS

STILLETTO FARRIERS

Forged from best quality crucible steel. Octagon poll. Polished tempered face and claw. Octagon poll. Curved claw. Hickory handles.

CINCINNATI PATTERN



Adze eye.

No.	SF200
Weight without handle, lbs.	6⅝
Length over all, inch.	13½
Weight per dozen, lbs.	14
Per dozen	$27.00

HELLERS PATTERN

Adze eye.

No.	852
Weight without handle, lbs.	5⅛
Length over all, inch.	13½
Weight per dozen, lbs.	14½
Per dozen	$27.00

All above, one-half dozen in a cardboard box.

MAYDOLE FARRIERS

Solid forged crucible steel. Full polished hardened face. Whaleback claw. Oil finish. Hickory handle.

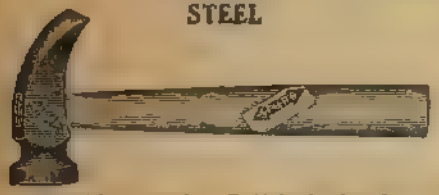
HELLERS FARRIERS

Solid forged crucible steel. Hardened face, whaleback claw, full polished. Select hickory handle.

Weights, including handles, 14, 15, 16, 17 ozs.

No.	D 64
Length over all, inch.	14
Per dozen	$27 00

STILLETTO SHOEMAKERS STEEL



Crucible steel. Polished head and tang. Japanned neck.

No.	S1091
Weight without handle, ozs.	12
Length of handle, inch.	10
Per dozen	$15 00

STANDARD CAST IRON

Japanned. Polished face. Plain handle.

No.	15
Weight without handle, lbs.	11
Weight per dozen, lbs.	10
Per dozen	$4.00

Above, one dozen in a package.

BOILER PICK OR SCALING

Natural finish. Plain eye. One end straight, other end cross pein. No. 1 grade 12-inch hickory handle.

	Hdled.	Unhdled.
Nos.	0	00
Length of head, inch.	5¾	5¾
Weight per dozen, lbs	18	12
Per dozen	$22 50	18.00

Loose.

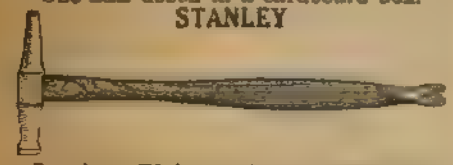
STILLETTO MAGNETIC TACK

Highest grade crucible steel. Nickel plated. Plain eye. Carefully tempered claws and hardened face, second growth hickory handles.

No.	S 270
Length of head, inch.	4¾
Length over all, inch.	10½
Weight per dozen, lbs.	6
Per dozen	$18.00

One-half dozen in a cardboard box.

STANLEY



Cast iron. Plain eye. Tinned finish. Hickory handle, with ferrule and steel claw.

No.	2
Length of head, inch.	4
Length over all, inch.	12
Weight per dozen, lbs.	3½
Per dozen	$4.00

One dozen in a box.

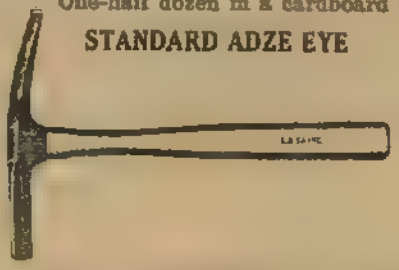
MAGNETIC

Cast steel. Plain eye, with claw. Horseshoe pattern. Full polished.

No.	271
Length of head, inch.	4¾
Length over all, inch.	10
Weight per dozen, lbs.	6
Per dozen	$9.00

One-half dozen in a cardboard box.

STANDARD ADZE EYE

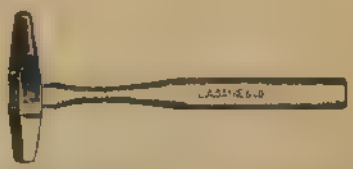


Cast iron. Polished. Adze eye, with claw. Hickory handle.

No.	30
Length of head, inch.	5½
Length over all, inch.	10
Weight per dozen, lbs.	5¼
Per dozen	$3.00

One dozen in a box.

MAGNETIC



Cast steel. Plain eye. Horseshoe pattern. Full polished.

No.	272
Length of head, inch.	4
Length over all, inch.	11½
Weight per dozen, lbs.	5¾
Per dozen	$9.00

One-half dozen in a cardboard box.

STANDARD PLAIN EYE

Cast iron. Plain eye. Polished. Hickory handle, with ferrule and claw.

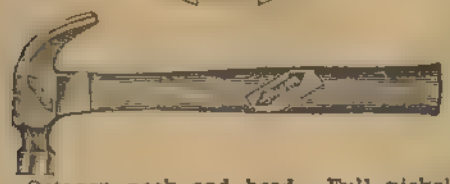
No.	25
Length of head, inch	3¼
Length over all, inch.	11¼
Weight per dozen, lbs.	4
Per dozen	$3.75

One dozen in a cardboard box.

HAMMERS

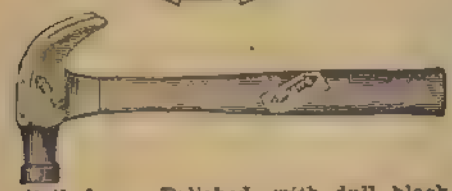
STILETTO NAIL

Drop forged from one piece Jessops tool steel. Hardened face. Adze eye. Thoroughly tested. Handled with second growth white hickory handles. Warranted.



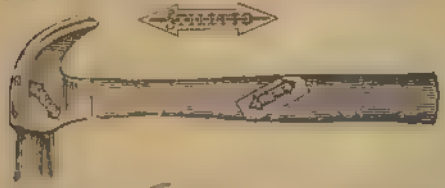
Octagon neck and head. Full nickel plated. Mahoganized finished handle.

Nos.	S13IC	S13I½C
Wght without hdls, ozs	20	16
Weight per dozen, lbs	22	18
Per dozen	$42.50	41.00



Bell face. Polished, with dull black finish on neck and under claw.

Nos.	S 10	S 11	S11½
Wt without hdls, ozs	25	20	16
Weight per dozen, lbs	25	18	17
Per dozen	$46.00	40 25	38 00
Nos.		S 12	S 13
Weight without handles, ozs		13	7
Weight per dozen, lbs.		14	9
Per dozen		$36 00	31.50



Plain face. Polished with dull black finish under claws.

Nos.	S 1	S 1½	S 2
Wt without hdls, ozs	20	16	13
Weight per dozen, lbs	20	18	15
Per dozen	$40 50	38 00	36.00

STILETTO RIPPING

Bell face. Straight claw. Polished, with dull black finish on neck and under claws.

Nos.	S 411	S 411½	S 412
Wt less hdls,ozs	20	16	13
Wgt doz, lbs.	22	18	15
Per dozen	$40.50	38 00	37 00

All above, one-half dozen in a cardboard box

MAYDOLE NAIL

Solid forged crucible steel. Hardened face. Adze eye. Polished and tempered. Second growth hickory handles. Warranted.

Nickel plated, ebonized handles, bell face.

No.	611½
Weight without handles, each, ozs	16
Weight per dozen, lbs.	18
Per dozen	$41 00

Bell face. Polished, with dull black finish on neck and under claws.

Nos.	10	11
Weight without handles, ozs	28	20
Weight per dozen, lbs.	30	22
Per dozen	$46 00	40 25
Nos.	11½	12	13
Wgt without hdls, ozs	16	13	7
Weight per dozen, lbs	18	15	10
Per dozen	$38.00	36.00	31.50

MAYDOLE BRAD

Plain eye. Octagon face. Full polished.

No.	226
Weight without handles, ozs.	4
Weight per dozen, lbs.	5½
Per dozen	$20 00

MAYDOLE RIPPING

Bell face. Black neck. Straight claw.

Nos.	711	711½	712
Wt without hdls, ozs	20	16	13
Weight per dozen, lbs	22	18	15
Per dozen	$40.50	38 00	37 00

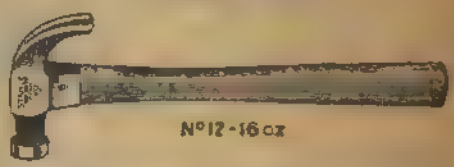
STILETTO VANADIUM NAIL

Drop forged from Vanadium steel the toughest tool steel made. Adze eye. Second growth hickory handle. Highly polished finish. Warranted.

STILETTO VANADIUM

Nos.	S 21½	S 22
Wgt without handles, ozs	16	13
Weight per dozen, lbs.	21	18
Per dozen	$50.00	49.50

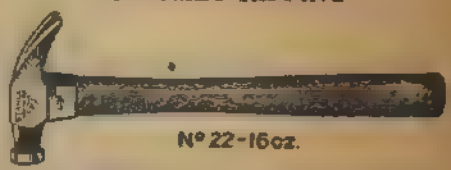
STANLEY NAIL



Made of a special steel, carefully forged and tempered. The handles are select second growth hickory. Adze eye, polished and warranted

No. 12—				
Wgt each, oz.	7	13	16	20
Wgt doz, lbs.	13	18	24	28
Per dozen	$19.80	21.00	22 20	23.40

STANLEY RIPPING

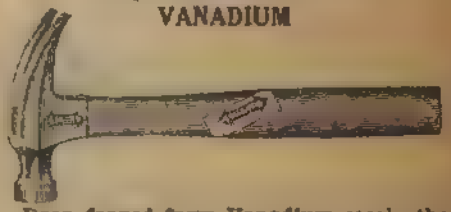


Bell face, straight claw.

No. 22—				
Weight each, ozs.			16	20
Weight per dozen, lbs			26	28
Per dozen			$22 20	23 40

All above, one-third dozen in a card board box.

STILETTO RIPPING VANADIUM



Drop forged from Vanadium steel—the toughest tool steel made. Straight claw.

No.	S 721½
Weight without handles, ozs.	16
Weight per dozen, lbs.	18
Per dozen	$50.00

One-twelfth dozen in a carton.

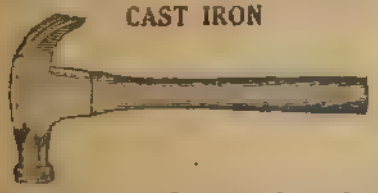
HAMMERS

CUB NAIL

Bell face, adze eye Polished Made of high quality forged steel. Hickory handles.

Nos.	C 11	C11½	C 12
Wgt without hdls, ozs	20	16	13
Weight per dozen, lbs	22	19	15
Per dozen	$30 25	36 00	$5.00

CAST IRON



Adze eye. Octagon face, hardened. Nickel plated. Black handle.

No.	93
Weight without handles, ozs	16
Weight per dozen, lbs	14
Per dozen	$10.50

CUB NAIL

Adze eye Plain face Polished, except under claw. Hickory handle.

Nos.	C 1	C 1½
Weight without handles, ozs	20	16
Weight per dozen, lbs.	22	28
Per dozen	$30 25	36 00

LADIES

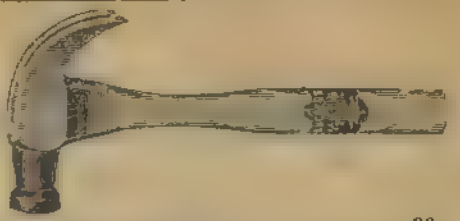
Adze eye. Bell face. Cast iron, polished. Hickory handle

No.	015
Length over all, inch	11½
Weight per dozen, lbs	4
Per dozen	$3 50

All above, one-half dozen in a cardboard box.

STANDARD NAIL

Converted steel Adze eye. Bell face, with No. 1 handles.



No.	90
Weight without handles, ozs	16
Weight per dozen, lbs	1[illegible]
Per dozen	$16 50

LADIES

Adze eye Plain face. Polished. Hickory handles.

No.	05
Weight per dozen lbs.	11
Per dozen	$5.00

MACHINISTS BALL PEIN

STANLEY

Octagon pattern Oil finish Polished peins. Drop forged from high grade crucible steel Hardened face and pein. Hickory handles.

Nos.	SPM5/0	SPM4/0
Wgt without hdls, lbs.	¾	⅞
Weight per dozen, lbs.	5	9
Per dozen	$27 50	28 00
Nos.	SPM3/0	SPM2/0
Wgt without hdls, lbs.	½	¾
Weight per dozen, lbs.	10	13
Per dozen	$28 50	29 00
Nos.	SPM0	SPM1
Weight without handles, lbs	1	1¼
Weight per dozen, lbs.	18	21
Per dozen	$31 50	34 00
Nos.	SPM2	SPM3
Weight without handles, lbs	1¼	1¾
Weight per dozen, lbs.	24	26
Per dozen	$37.00	40 50
Nos.	SPM4	SPM5
Weight without handles, lbs	2	2¼
Weight per dozen, lbs.	29	34
Per dozen	$43 00	46 00
Nos.	SPM6	SPM8
Weight without handles, lbs	2½	3
Weight per dozen, lbs.	36	42
Per dozen	$50.00	60.00

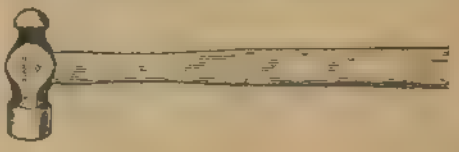
MAYDOLE

Drop forged crucible steel. Round head. Full oil finish. Hardened face and pein Hickory handle varnished

Nos.	770½	771
Weight without handles, lbs	2¼	1⅞
Weight per dozen, lbs	35	34
Per dozen	$50 00	42.00
Nos.	772	773
Weight without handles, lbs	1½	1¼
Weight per dozen, lbs.	26	20
Per dozen	$38.00	35.00
Nos.	774	775
Weight without handles, lbs	1	⅞
Weight per dozen, lbs.	19	16
Per dozen	$32.00	29.50
Nos.	776	777
Weight without handles, lbs	⅝	½
Weight per dozen, lbs.	14	10
Per dozen	$27.50	26.00

STANLEY

Made of special steel, carefully forged and tempered. Polished Select second growth hickory handles Warranted



No. 36—

Weight each, ozs.	6	8	12
Size number	000	00	0
Weight per doz, lbs.	7	11	13
Per dozen	$16 20	16 20	16 20
Weight each, ozs.	16	20	24
Size number	0	1	2
Weight per doz, lbs	16½	19	22
Per dozen	$16 80	18 00	19 20
Weight each, ozs.	28	32	40
Size number	3	4	6
Weight per doz, lbs.	27	30	39
Per dozen	$21.00	22.20	25.80

All above, one-third dozen in a cardboard box.

ELECTRIC FANS

MEMOMINEE

Each part of these fans is cast, finished and assembled under one roof, and nothing is left undone to bring them to the highest state of mechanical development. Dealers and users everywhere are greatly impressed with their fine appearance, the unusually large blades and the quiet running motors. The manufacturers stand squarely behind every fan and guarantee them **free from mechanical defects and workmanship.**

SPECIFICATIONS

Cast iron motor body and base, black japanned. Full size blades, lacquered. Steel guard, black japanned. Green felt base, 8 foot cord with separable base. Knuckle joint, allowing adjustment for desk or wall. Bronze bearings. Each fan packed in individual box.

UNIVERSAL MOTOR

For Either A. C. or D. C. 100 to 120 Volts

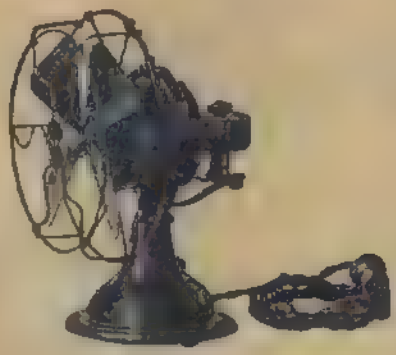
Without Any Adjustment

9-in. non-oscillating, four blades single speed.

No.	500
Shipping weight, lbs.	10
Each	$14 00

9-in. non-oscillating, four blades, three speeds.

No.	510
Shipping weight, lbs.	10
Each	$16.00



9-inch, oscillating, four blades, three speeds.

No.	560
Shipping weight, lbs.	16
Each	$23.00

ALTERNATING CURRENT ONLY

100 to 120 Volts. 60 Cycles

12-in. non-oscillating, four blades, three speeds.

No.	300
Shipping weight, lbs.	32
Each	$31 00

16 in. non-oscillating, four blades, three speeds.

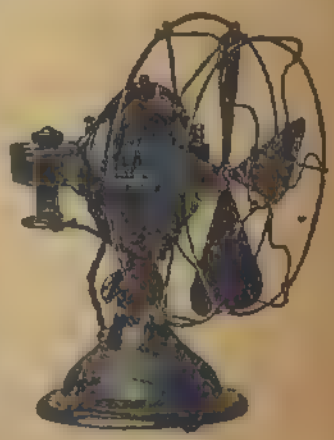
No.	310
Shipping weight, lbs.	35
Each	$37 00

12-in. oscillating, four blades, three speeds.

No.	350
Shipping weight, lbs.	28
Each	$40 00

16-in. oscillating, four blades, three speeds.

No.	360
Shipping weight, lbs.	40
Each	$46 00



GILBERT

POLAR CUB

Switch in base, two speeds and stop. Fan adjustable to any angle. Easily lubricated. Die cast frame. Fan guard spot welded. Motor nickel plated. Blades japanned and rustproof. Base finished in velvet black. Complete with 8 feet of cord, socket and attaching plug. Guaranteed for full season. Packed in new protected cartons with attractive label.

Nos.	Model D6	Model D9
Blade, inch	6	9
Height over all, inch	8	10
Volts	110	110
Shipping weight, lbs.	4	16
Each	$6 50	10 00

ELECTRICAL WIRES AND CABLES

Browne & Sharp (B. & S.) Gauge

TELEPHONE WIRES

Rubber Covered Copper

BRIDLE WIRE

Twisted Pair

Each conductor a soft drawn tinned copper wire, insulated to a diameter of ⅛ of an inch over rubber, and covered with a cotton braid, saturated with black weatherproof compounds, wax finish one conductor has raised tracer.

No. 18—No test, twisted pair, 32 lbs per 1000 feet.

INSIDE OR SUB-STATION

Twisted Pair

Commonly known as B. R. C. (braided rubber covered). Conductors soft drawn tinned copper, insulated to a diameter of ⅛ of an inch over rubber, covered with a single hard glazed cotton braid. Colored tracer thread in one conductor.

No. 19—No test, twisted pair, 28 lbs per 1000 feet.

EXTRA GALVANIZED TELEPHONE AND TELEGRAPH WIRE

Best Best (B. B.)—Used very largely by telephone companies.

Gauge	Approximate weight in lbs per 1000 ft	per mile	100 lbs
6	112	590	$21 50
8	74	[illegible]	21 50
9	60	314	21 50
10	49	258	22.00
12	32	170	22 50
14	19	99	24.00

HEATING CORD (TYPE H)

For electrically heated devices. Made in both paired and parallel types. Each conductor (34 gauge copper wire) has a wind of cotton, is covered with a 1/32-inch wall of high grade rubber and braided with pure asbestos fibre yarn.

Size		No. wires each conductor
16	Twisted Pair	88
18	Twisted Pair	66

LAMP CORD

DURACORD

Duracord is a two conductor portable cord with a special cover. This cover is a weave of heavy cotton yarn as contrasted with a light braid. It is made like a piece of fire hose. The insulation is far better than that required by the Board of Fire Underwriters. Laboratory tests and actual use have proven that Duracord will outlast ordinary cords four, five and six times over. It is far superior to any other cord now being used for portable work in factories, ship yards, railway shops, garages and on all types of steel construction.

Type	PS	P
Size, inch	18	18
Feet in coil	250	250
Weight per 1000 feet, lbs	73	105

LAMP CORD

National Electrical Code Standard

TWISTED (TYPE C)

Specifications—The conductors (30 gauge copper wire) are wound with a fine cotton yarn, and rubber insulated 1/32-inch, then separately braided in either silk or polished cotton, and twisted together to make the finished article.

Used principally for drop cords, where not likely to come in contact with surrounding objects.

Single Strand—Used extensively in this form for wiring lighting fixtures with chain stems and open fittings. Considerable time saved by not having to untwist. Price is one-half of the twisted or double type.

Size	No. of wire in each conductor	Feet in coils	Weight lbs per 1000 feet
16	26	250	35
18	16	250	29

PORTABLE CORD

National Electrical Code Standard

REINFORCED (TYPE P) DRY BRAID

This is type C twisted cord with an outer covering of rubber 1/32-inch thick, making the whole cylindrical, and then covered with a cotton or silk braid. Black braid is standard and will be shipped unless otherwise ordered. Extensively used for hand portables and extensions in basements, stores and warehouses.

Size	No. of wire in each conductor	Feet in coils	Weight lbs per 1000 feet
16	26	500	75
18	16	500	67

REINFORCED (TYPE P W P) WET BRAID

Same as type P, except outer braid is saturated with weatherproof compound. Used for hand portables and extensions in damp places where a conductor under one braid is desired.

Size	No. of wire in each conductor	Feet in coils	Weight lbs per 1000 feet
16	[illegible]	500	75
18	16	500	67

REINFORCED (TYPE P S)

Same as type P, except that the rubber insulation is 1/64-inch instead of 1/32-inch. Used almost altogether for electric portables in residences, offices, etc. The usual outside braided covering in either cotton or silk being old brass, tan, maroon, old gold or black.

Size	No. of wire in each conductor	Feet in coils	Weight lbs per 1000 feet
16	[illegible]	500	51
18	16	500	41

BREWERY CORD (TYPE C B)

Practically the same as reinforced type P. W. P. cord, except that the two finished conductors are twisted together without the outer braid. Used extensively for hand portables and extensions in basements, packing houses, garages and other places where there is considerable moisture and dampness.

Size	No. of wire in each conductor	Feet in coils	Weight lbs per 1000 feet
18	10	500	80

MACKINAWS

This Mackinaw is a very handsome and serviceable one. It is made of a beautiful piece of all wool, full 30 ounce Mackinaw cloth. Has a soft firmly woven finish. Comes in navy blue, tan or olive green novelty plaid patterns. Stylish 36 inch double breasted patch back model with large seamless shaw. color full 34 inch long, stitched down back belt, fancy patch back, stitched down turned back fancy cuffs; large welt seam patch pockets; extra wide front facings; all seams bound with black sateen binding. Style and workmanship guaranteed. Comes in sizes 36 to 44. Be sure and give size and color desired. Shipped from Minneapolis

C-6022—Men's Mackinaw..... **$10.50**

This is one of the best all wool Mackinaws that money can buy. Made of guaranteed all wool, 30 ounce Mackinaw cloth. Handsomely tailored and finished. Comes in olive green and tan mixed backgrounds, in handsome navy blue over plaid stripes. One of the most desirable patterns shown this season; made in the most up-to-date double breasted shawl model, 34 inches long; new novelty side pockets with button down flaps; one fancy button trimmed breast pocket; two button back belt; turned down button trimmed cuffs; continuous front facings; generous bottom and sleeve turn-up; inside seams bound with mercerised black sateen binding, braid cord hanger. Here is a garment that will last for years and will keep you warm and comfortable. Comes in sizes 36 to 44. Be sure and give size and state color desired Shipped from Minneapolis.

C-6023—Men's Mackinaw..... **$12.95**

MACKINAWS

This Mackinaw is made of the famous McKenney's firmly woven smooth finish 28 ounce Mackinaw cloth. Comes in a beautiful black and brown medium check pattern with fine olive green stripe over plaid. Finely tailored in every way. It is 34 inches long, double breasted style with a large storm shawl collar. Has two flap covered sides and one breast pocket, adjustable belt with fancy buckle. All inside seams bound with black sateen binding. Guaranteed to be strictly high grade in every way. Comes in sizes 36 to 44. Be sure to state size and give color desired. Shipped from Minneapolis.

C-6024—Men's Mackinaw..... **$10.75**

Here is a wonderful Mackinaw bargain. This garment is highly tailored throughout. The cloth is guaranteed to be a 28 ounce wool filled extra smooth finished Mackinaw cloth. Come in the ever popular double breasted style. Full 34 inches. Colors brown and black oblong check pattern which are very dressy and serviceable. Has a stitched down back belt. Two side and one breast patch pockets, large shawl collar, storm sleeve tabs, wide facings. All inside seams bound with the best black sateen binding. Here is one of the best garments for the money on the market. Comes in sizes 36 to 44. Be sure and state size. Shipped from Minneapolis.

C-6025—Men's Mackinaw..... **$11.25**

This boys' Mackinaw is made of a very fine quality full 30 ounce Mackinaw cloth. Comes in a handsome navy blue background with nobby olive green stripes in triple plaid stripe pattern. Is double breasted, has a large shawl collar; large belt all around coat; flap covered patch pockets, adjustable storm sleeve tabs; braid cord hanger; buttons match coat. A warm dressy Mackinaw and a big value for the money. Sizes 28 to 36. Be sure and state size. Shipped from Minneapolis

C-5026—Boys' Mackinaw..... **$7.75**

Here is a boys' Mackinaw that is sure to satisfy and please. Strictly high grade in every way, made of fine quality 28 ounce wool mackinaw cloth. Comes in a navy blue pattern with black and gray over plaid check stripes. Latest double breasted style with an all around belt; trimmed with metal buckle. Large seamless shawl collar; two slash side pockets and one breast patch pocket; storm sleeve tabs, braid cord hanger. Seams bound with black sateen binding. Come in sizes 28 to 36. Be sure and state size. Shipped from Minneapolis.

C-6027—Boys' Mackinaw..... **$6.95**

Here is a dandy Mackinaw for the boy. Well made in every way; very fine quality; all wool soft finish Mackinaw cloth; comes in a handsome maroon, navy blue and oxford small gray plaid check pattern; pinch back style; warm military collar; three piece belt stitched down in back, flap cover button through patch pockets; wide facings; seams all bound. This coat is sure to give complete satisfaction. Sizes 4 to 8 years. Be sure and state size. Shipped from Minneapolis.

C-6082—Boys' Mackinaw..... **$5.75**

Here is a good practical and very serviceable coat. It is made of the very finest drab Moleskin in the double breasted style with sewed on buttons and loops. Coat is 36 inches long and is lined with the best tanned sheepskin; sleeves are lined with extra heavy blanketing and fitted with wool knit wristlets, button sleeve tabs; two leather bound side and two leather pointed muff pockets, full seven inch beaver-lized storm collar; double stitched seams; moleskin arm shields. Comes in sizes 38 to 48. Be sure and give size desired. Shipped from Minneapolis.

C-6013—Sheep Skin Coat..... $16.50

MOLESKIN COAT

These mens coats are made of extra quality Heavy Weight Drab Moleskin in the double breasted style They are thirty-one inches long, have patented never-come-off buttons; two side flap covered stitched inside patch pockets; lined throughout with extra heavy blanket lining; large five inch corduroy storm collar; wide self facing; double stitched throughout. A serviceable garment that will please you. Comes in sizes 36 to 46. State size desired. Shipped from Minneapolis.

C-6014 Men's Coat..... $8.95

MEN'S DUCK COAT

Here is a good heavy weight Brown Duck Coat made in the single breasted 32-inch style; patented never-come-off buttons. Large four-inch corduroy collar; body interlined with slicker lining; lined throughout with high grade heavy blanket lining. Sizes 36 to 46 inch. State size desired. Shipped from Minneapolis.

C-6015 Men's Coat..... $5.90

BOYS' SHEEPSKIN LINED COAT

This Boys' Coat is made of a heavy grade of Brown Duck. Single breasted style, has Thompson's fasteners. Body is lined with a good grade of heavy sheepskin. Sleeves are lined with heavy blanketing and fitted with wool wristlets. Has two flap covered set in pockets. Large beaverined lambskin collar with tab. Strongly made in every way, being doubly stitched throughout. Comes in sizes 28 to 36. Be sure and state size desired. Shipped from Minneapolis.

C-6016—Boys' Coat..... $9.25

BOYS' MOLESKIN COAT

This Boys' Coat is strongly made of an extra heavy weight Dark Drab Moleskin. Cut double breasted style. Has two rows of patented buttons and button holes. Well lined throughout with a fine heavy stripe blanketing. Large five inch corduroy collar Two flap covered set in pockets. All seams are doubly stitched. A good warm coat that will give complete satisfaction. Comes in sizes 26 to 34. Shipped from Minneapolis.

C-6017—Moleskin Coat..... $4.45

Here is an exceptional fine coat for those who have lots of driving. It is well made throughout of heavy Drab Moleskin in the double breasted style, with sewed on buttons and loops. It is 40 inches long and lined with the best tanned sheepskin; sleeves lined with extra heavy blanketing and fitted with wool knit wristlets; button sleeve tabs, moleskin arm shields; two leather bound side and two leather pointed muff pockets; full seven inch beaverized storm collar with tab; double stitched seams. A high grade coat in every way and one that is sure to please and give you complete satisfaction. Comes in sizes 38 to 48 chest. In ordering, be sure to give size desired. Shipped from Minneapolis.

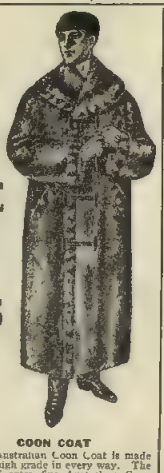
C-6012—Sheepskin Coat..... $18.75

BLACK DOG SKIN COAT

This Black Dog Skin Coat is well made in every way of choice black skins and is guaranteed to be free from imperfections in every way. The skin is heavily furred. Coat is double breasted, has a high beaverized lamb collar. Exceptionally well lined with a heavy black quilted lining. Good leather arm shields to protect coat. All wool knit wristlets. A high grade coat at a very low price. Give us the size of your overcoat and we will send you a fur coat that will fit you. Shipped from Minneapolis.

C-6018—Dog Skin Coat..... $36.50

MEN'S HIGH GRADE FUR COATS



GENUINE WOMBAT COAT

This genuine Wombat Coat is made by skilled workmen of the very finest, heavy furred selected silver Australian Wombat skins possible to procure. Has an extra large shawl collar of southern beaver; wide turn back cuffs to match. Is beautifully lined with a heavy black sateen quilted lining. Fancy Venetian sleeve lining. Leather arm shields. Muff pockets; wool wristlets. Olive and braid loop fasteners. We can furnish you with a cheaper Wombat coat but not with a better one. Satisfaction guaranteed Give us the size of your cloth overcoat and we will send you a fur coat that will fit you. Shipped from Minneapolis.

C-6019—Genuine Wombat Coat $115.00

COON COAT

This Australian Coon Coat is made strictly high grade in every way. The fur is of extra fine Australian Coon (Kangaroo) of medium weight, very finely matched. Coat is latest double breasted style. Has an extra large collar of blended northern muskrat Large turn back cuffs and pocket edges to match. Coat is well lined with an extra quality heavy quilted Venetian lining. Large muff pockets. Fancy striped sleeve lining; leather arm shields. Knit wool wristlets. Center back vent loops and olive fasteners. A wonderful coat at a wonderfully low price. Give us the size of your cloth overcoat and we will send you a fur coat that will fit you. Shipped from Minneapolis.

C-6020—Coon Coat..... $89.50

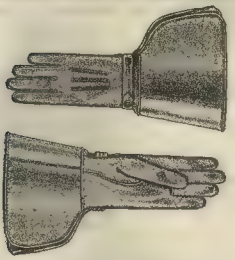
BLACK GALLOWAY COAT

This beautiful black Galloway Coat is exceptionally well made in every way by skilled workmen. The skins are new choice Black Russian Galloway skins guaranteed to be free from imperfections in every way Coat has a large wide collar of Russian Galloway Skin It is exceptionally well lined with a high grade Venetian lining. Good warm knit wristlets Leather arm shields; button and loop fasteners. Black Galloway Coats are always popular because of their rich looking appearance and exceptionally fine wearing qualities. This coat will keep you warm and comfortable. Give us the size of your cloth overcoat and we will send you a fur coat that will fit you. Shipped from Minneapolis.

C-6021—Black Galloway Coat. $45.00

AUTOMOBILE GLOVES AND MITTENS

Made of Special Tanned Black Horsehide. No other Glove or Mitten gives as Perfect a Fit with such Style and Comfort



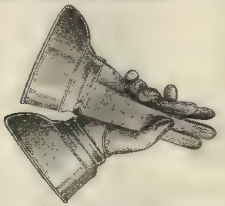
MEN'S GAUNTLETS

Made of Extra Quality Black Horsehide, with Military Fastener; Rolled Welt, Protected Thumb and Finger Seams; All Handsewed, with Moccasin Tip Fingers; Black Leather Gauntlet; Enamel Drill Lining; with Large Black Horsehide Gusset; Will not break down.

Stock Sizes—9, 10, 11

Per Pair

No. 709—Black Horsehide..... $4.50



MEN'S SHORT GAUNTLET

Same as No. 709 shown above but with Cuff 2½ in. Wide allowing full freedom of wrist and forearm, but still large enough to cover any sleeve. Full Military Fastener.

Stock Sizes—9, 10, 11

Per Pair

No. 708—Black Horsehide..... $3.50

MEN'S GAUNTLET ONE-FINGER MITT

Special Tan Black Horsehide; Elderdown Lining; Large Gauntlet with Enameled Drill Lining; Horsehide Gusset. Military Fastener.

Stock Sizes—9, 10, 11

Per Pair

No. 715—Black Horsehide..... $4.50

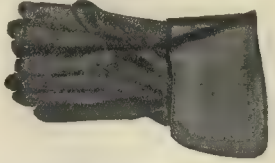
MEN'S FLEXIBLE GAUNTLET

Made of Extra Quality Special Tan Black Horsehide; Rolled Welt Protected Thumb and Finger Seams, all Handsewed with Moccasin Tip Fingers, Flexible Cuff of Black Leather. Can be worn in any position allowing full freedom of the hand and wrist. Can be rolled up and placed in pocket.

Stock Sizes—9, 10, 11

Per Pair

No. 713—Black Horsehide..... $4.00



MEN'S GAUNTLET

Made of Fair Quality Black Leather, Soft and Pliable; Good Stiff Leather Cuffs

Stock Sizes—8, 9½, 10, 10½

Per Pair

No. 104—Black Leather..... $3.00

MEN'S MITTEN

Special Tan Black Horsehide; Elderdown Lining; Large Gauntlet with Enameled Drill Lining, Horsehide Gusset. Military Fastener.

Stock Sizes—9, 10, 11

Per Pair

No. 917—Black Horsehide..... $4.50

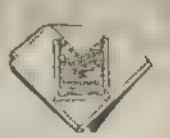
MEN'S HANDKERCHIEFS
Plain white, cords and woven prints

...lored Printed Borders — Assrtd. styles, 16½x17½, ... white lawn. Assrtd. ... borders. ... Dz. $1 50 ... 1 47 ... 1.45

"Quality," Plain White — 17½x17½ soft finish yarns, ½ in. hem. 68-72 count, square fold. "D9019—1 doz. in pkg. Doz. $1.60; 10 doz. lots, " 1 77; 50 " " 1.75

Fancy Print Borders—Assrtd styles, 17x17, ½ in. hem corded yarns, cambric finish fancy printed hems and double borders. 2D5838—Assrtd 1 doz. in pkg. Doz. $2.25; 10 doz. lots, " 2.20; 50 " " 2.15

"Shilish," Plain White — 17½x18½ in. hem, careful ly combed yarns, extra soft. 2D5863—1 doz. in pkg. Doz. $2.60; 10 doz. lots 2 55; 50 2 50



"President" Plain White — 18x18 long staple combed yarns ½ in. hem soft finish, satin-like luster, Damask. 2D9948—1 doz. in pkg. Doz. $2.90; 10 doz. lots 2.85; 50 " " 2.80

Satin Stripe Borders — 2 styles, 17½x17½, assrtd. ... in hemstitched woven satin border in comb nation large and small effects. 2D6485—Assrtd 1 doz. in pkg. Doz. $3.00; 10 doz. lots, " 2.55; 50 " " 2.50

"Paris," Mercerized — 18x18 ... ½ in. hem, soft finish ... 2D9405—1 doz. in pkg. Doz. $3.75; 10 doz. lots " 3.15; 50 " " 3.05

"Manhattan" Plain White — ... 18x18 ... silk ... 2D5823—1 doz. in pkg. Doz. $3 25; 10 doz. lots 3.20; 50 " " 3.15

Colored Woven Cord Bor ... 2D9556 Assrtd 1 doz. in box. Doz. $4.25; 10 doz. lots " 4.20; 50 " " 4.15

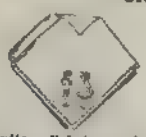
Novelty Satin Stripe and Cord Borders ... 2D9555 Assrtd 1 doz. in box. Doz. ...; 10 doz. lots. " ...; 50 " " Out

Colored Woven Initials ... 2D9401—Assrtd 1 doz. in box. Doz. Price; 6 doz. lots ...; 100 " " Out

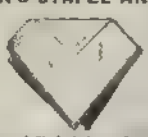
MEN'S INITIALED HANDKERCHIEF

Initialed Japanese ... 18 ... 10 dz. lots. " $1 90; 50 " " 1.87; 100 " " 1.85

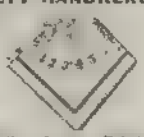
CHILDREN'S STAPLE AND NOVELTY HANDKERCHIEFS



Juvenile Prints — Assrtd. styles, 9x9 hemmed good ... cloth printed borders and figures, "Jack and Jill," "Little Jack Horner" etc. 2D9670—Assrtd 1 doz. in pkg. Doz. $0.65; 10 doz lots " .62½; 50 " " .60



Colored Red Edge Borders. 11x10 cambric finish ... edge in pink, blue and lavender. 2D9745—Assrtd. 1 doz. in pkg. Doz. $0.67½; 10 doz lots " .66; 50 " " .65

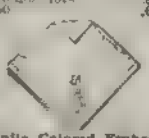


Juvenile Nurse Prints — Assrtd styles, 14x14 ... hemmed soft finished lawn assrtd. Cock Robin, Pussy Cat and the Owl," "John Gilpin" etc. in colors. 2D9615—Assrtd. 1 doz. in pkg. Doz. $0.67½; 10 doz lots .66; 50 " " .65

Hemstitched, Plain White ... ½ in. hem ... 2D9560—2 doz. in pkg. (Total $1 40). Doz. $0.70; 10 doz. lots, " .67½; 100 " " .65

Natural Silk — 8½x8½ ... natural silk ... printed juvenile ... 2D9646—1 doz. in pkg. Doz. 80c; 10 doz lots " 79c; 50 " " 77½c

"Fairyland" prints—Assrtd. styles 12x12 ... pkg. Doz. Out; 10 doz lots " ...; 100 " " Out



Juvenile Colored Embroidered Assrtd styles ... 2D9856 1 doz. in pkg. Doz. $0.85; 10 doz lots .82; 100 " " .80

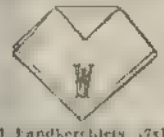
BOYS' HEMSTITCHED HANDKERCHIEF

Plain White 1 all ... in ... 2D9452 1 ... pkg. Doz. $1 25; 10 doz. " 1.22½; 100 " " 1.20

CABINET ASSORTMENT MEN'S INITIALED HANDKERCHIEFS

Metal Drawer ... metal

... 6 dozen oak ... metal cabinet, with lettered drawers for ... holds ... in sealed ... hand ... insures clean stock, easily inventoried



2D9934 Assrt ... initial handkerchiefs ...7x17 ... 1 doz. in ... cambric finish ... initials, ... 1 doz. in ... to pick ... solid metal cabinet 16½x13½, ... with eighteen ... drawers 6x9, brass pulls. Each ... in wood case. ... 1 doz. handkerchiefs ... 1 doz. $1 70 ... $30.60; ... 0 50; Total at ... price ... Asst $37 10; ... [illegible] ... $36.00

2D9938 Open stock ... initial handkerchiefs ... each, ... for filling orders. Could use initials to fit the ... Special initials, 1 doz. in box ... Doz. $1.70

INDIGO BLUE HANDKERCHIEFS

Guaranteed indigo blue dyed. Assrtd. clear printed patterns to doz.

"Blue Jacket"—Assrtd polka dots, white borders. Assrtd patterns. 1 doz. in pkg.

"D9414 Trade 18 in. sqr. 17x18. Doz. $1.25; 10 doz. lots, " 1.22; 50 " " 1.20

2D9414 — Trade 21 in. sqr. ... 10 doz. lots, " 1.67; 50 " " 1.55

2D9414 Trade 24 in. sqr. 21x23. " 2.00; 10 doz. lots, " 1.95; 50 " " 1.90

"Navy" Standard cloth, square, soft finish fancy colors, white dot borders. Assrtd patterns. 1 doz. in pkg. D... Trade 24 in. sqr. ... Doz. $2.40; 10 doz. lots, " 2.35; 50 " " 2.30

TURKEY RED HANDKERCHIEFS

Only the best and fast dyes used. Good clear prints, attractive patterns

"Red Jacket"—Genuine all alizarine oil dyed. Assrtd patterns. 1 doz. in pkg.

3D9430—Trade 18 in. sqr. ...x18. Doz. $1 25; 10 doz. lots. " 1.22; 50 " " 1.20

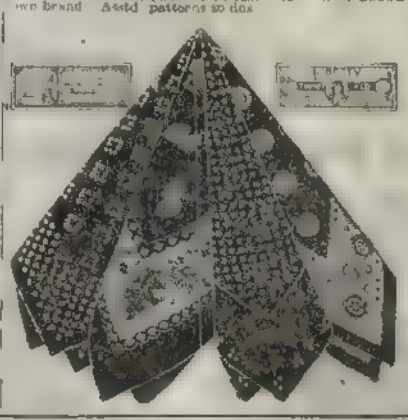
2D9431 Trade 21 in. sqr. 20x20 ... 10 doz. lots, " 1.67; 50 " " 1.55

2D9435 Trade 24 in. sqr. 21x23. " 2.00; 10 doz. lots, " 1.95; 50 " " 1.90

Genuine Persian Red Assrtd. all over Paisley patterns. 2D9438—24 in., sq. ... 1 doz. in pkg. Doz. 2.40; 10 doz. lots " 2.35; 50 " " 2.30

"LIBERTY" TURKEY RED AND INDIGO BLUE HANDKERCHIEFS

Standard cloth, guaranteed fast color. Well known goods put up under our own brand. Assrtd patterns to doz.



Indigo Blue—1 doz. in pkg. 2D9... Trade 18 in. sq. actual 17x18 Dz. $1.30; 10 dz. lots. " 1.27; 50 " " 1.25

2D9454—Trade 21 in. sq. actual 20x21 Dz. $1.80; 6 doz. lots " 1.77; 6 doz lots " 1.75

2D9... Trade ... in. sq. ... Dz. $2.05; 10 dz. lots " 2.02; 50 " " 2.00

2D9455 Trade 24 in. sq. actual 21x23 Dz. $2.30; 10 dz. lots " 2.27; 50 " " 2.25

Turkey Red—1 doz. in pkg. 2D... Trade 18 in. sq. ... Dz. $1.30; 10 dz. lots. " 1.27; 50 " " 1.25

2D9454 Trade 21 in. sq. actual 20x20 Dz. $1.80; 6 doz. lots " 1.77; 6 doz lots " 1.75

2D... Trade ... in. sq. ... Dz. $2.05; 10 dz. lots " 2.02; 50 " " 2.00

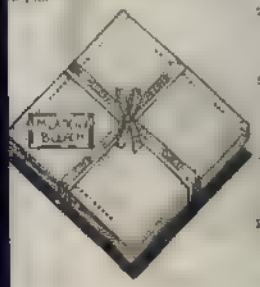
2D9455 Trade 24 in. sq. actual 21x23 Dz. $2.25; 10 dz. lots " 2.22; 50 " " 2.20

"MEADOW BLEACH" HANDKERCHIEFS

"Meadow Bleach" handkerchiefs are quality goods, neatly hemstitched. They are of careful workmanship and are in big demand

WOMEN'S—Cambric Finish

Special bleach, evenly woven yarns, careful finish. 1 doz. in pkg.



2D5061 10½x11, ½ in. hem, evenly woven. Doz. $0.82½; 10 dz. lots " ...; 100 " " ...

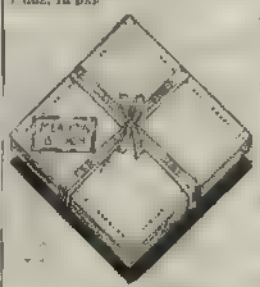
2D9620 — 11 x 11, plain woven, soft yarn, ½ in. hem. ... 10 doz. lots, Temp. Out; 100 " Temp. Out

2D5468 — 12x12, ½ in. hem, sheer lawn, French fold. Doz. T O; 10 dz. lots T O; 1 K T U

2D5663 — 11½x11½ ½ in. hem, long staple yarns. Doz. $1.25; 10 dz. lots. " 1.22½; 100 " 1.20

MEN'S—Cambric Finish

Cambric finish lawn, long staple yarns, superior bleach. 1 doz. in pkg.

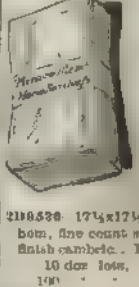


2D9941 ... Doz. $1 25; 10 dz. " 1 22; 100 " 1 20

2D9942 — 16½x16½, ... in hem, carded yarns, good finish. Doz. $1.30; 10 dz. lots " 1.27; 100 " " 1.25

2D9943 — 17½x17½ ¾ in. hem, carded yarns, perfect bleach, French fold. Doz. $1.70; 10 dz. lots, " 1.67½; 100 " 1.65

MEN'S—Soft Finish—1 doz. in pkg.



2D9946—16½x16½ ½ in. hem, soft finish. Doz. $1.15; 10 doz. lots. " 1.12; 50 " " 1.10

2D9945—16½x16½ ½ in. hem, carded yarn extra soft finish. Doz. $1.30; 10 doz. lots " 1.27; 50 " " 1.25

2D9948—17½x17½ ¾ in. hem, special soft finish, extra fine. Doz. $1.70; 10 doz. lots, " 1.67; 50 " " 1.65

2D9523 17x17 ½ in. hem, special soft finish combed yarns. Doz. $2.05; 10 doz. lots. " 2.02; 50 " " 2.00

2D9538 17½x17½, ½ in. hem, fine count special soft finish cambric. Doz. $2.60; 10 doz lots, " 2.55; 100 " " 2.50

2D9528 18x18, ½ in. hem, special bleach extra soft finish woven cord border. Doz. $3 25; 10 doz lots 3.20; 100 " 3 15

PIECE WHITE GOODS

PLAIN & FANCY POPULAR SELLERS

STAR VALUE DIMITIES

4M10-4 4M20-22

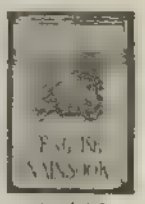
Dimity Checks—Small, med. and large single and double cord checks Bookfold, about 25 to 30 yds. in pc

4M10—25 in. fair quality Yd 30c
4M15— good finish " 37c
4M1— high count " 47c
4M1— superior quality finish Yd 49c

Dimity Stripes—Narrow and med. width single cord stripes, also double and triple cord stripes Bookfold, about 25 to 30 yd pcs

4M30—30 in. good quality Yd 32c
4M— in. soft " 42c
4M— to 36 in., extra good quality, sheer finish Yd 46c

NAINSOOKS—For Lingerie and Infants' Wear



4M30[illegible]

4M35

4M37-8

4M191-8

English Nainsook—Plain white, fine soft finish Bookfold

4M— in. fair quality " 25c
4M— in. popular quality " 27½c
4M8035—36 in. popular quality and width 12 yds in pc. Yd 39c
4M— in. good quality " 42½c
4M— in. extra good quality fine wt. and finish 12 yds in pc. Yd 55c
4M8024—36 in. superior quality count and finish Yd 60c

"Paris" Nainsook—Plain white, fine carded and combed sheer [illegible] soft finish Popular for [illegible] Babyfold 12 yds in pc boxed

4M8025—36 in., popular quality and count Yd 52½c
4M8026— in. good quality wt. and finish Yd 55c
4M8027— in. extra good quality count and finish Yd 82½c
4M8028—36 in. superior quality count and finish Yd 85c

"Paris" Nainsook—Flesh pink, made of fine Egyptian cotton, free from [illegible] one count, superb soft finish Popular for [illegible] Babyfold 12 yds in pc boxed

4M156—36 in., extra good quality and count Yd 60c

Shadow Lace Stripe Nainsook—[illegible] in. wide, very sheer count and soft finish Babyfold 12 yds in pc boxed Yd

4M37—WHITE 67½c
4M38—FLESH 72½c

Japanese Nainsook—Plain white, highly mercerized, fine sheer finish Babyfold, 12 yds in pc box of

4M191—36 in. good quality and count To Arrive
4M192—36 to 39 in. extra good [illegible] and count Yd 65c
4M193—36 to 39 in., fine sheer quality and count Yd 70c
4M194—36 to 39 in. extra fine sheer quality and finish Yd 75c
4M195—36 to 39 in. superior quality, silky sheer finish Yd 80c

PLAIN LIGHT AND MEDIUM WT. FABRICS—White and Colored—For Waists, Shirts, Dresses, Etc.

4M62-3-63

4M137

4M46-47

4M160

4M33-34

4M164-301

4M8005-161

Extra Wide Lawn, Fair white fine bleach. Longfold about 30 yds. in pc.

4M— 36 to 40 in. fair quality Yd 35c
4M— 39 to 40 in. good quality and extra wt. Yd 37½c
4M— 39 to 40 in., good quality and extra wt Yd 42½c
4M— 40 in. fine sheer quality soft finish Yd 50c

Lingerie Batiste—39 to 40 in. mercerized fine sheer count, soft finish Bookfold about 10 yds in pc

4M— White
4M— Blue
4M— Pink
4M— Helio
4M— Maize
} Yd 40c

White Voile—Perfect bleach, mercerized soft finish, permanent luster. Bookfold about 30 yds in pc.

4M45—36 in., good quality. Temp. Out
4M46—39 to 40 in., extra quality and finish Yd 50c
4M47—39 to 40 in., fine quality and finish Yd 60c

Mercerized Poplin—Retains luster after washing, perfect bleach, closely woven

4M145—36 in. good quality Longfold, about 25 yds. in pc Yd 50c

Persian Lawn, Extra Wide—Perfect bleach, mercerized soft finish Bookfold, about 30 [illegible] in pc

4M135 46 in. extra good quality and count Yd 55c
4M34—40 in., extra fine quality count and finish Yd 57½c

Colored Organdie—39 in. transparent, mercerized, fine sheer quality and finish, fast colors Bookfold about 30 yds 10 pc

4M— Pink
4M— Maize
4M— Maize
4M— Blue
4M— Rose
} Yd 50c
4M202—Reseda green

White Organdie—[illegible] in. transparent mercerized, perfect bleach, firm, crisp texture Bookfold about 30 yds in pc

4M— good quality and count Yd 50c
4M— fine sheer quality and count Yd 55c
4M161 Extra fine sheer quality and count Yd 62½c

Buy Piece Goods From Us

For house sewing prefer it usually as it is quite lowest market prices. Include to [illegible] to a border. Have it in all [illegible] in the shrunk and sale [illegible] at one time.

Special Value Staples—Distributed Exclusively by Butler Brothers

4M79

Special values in two well known staples of established reputation as real merit goods. Made of fine selected yarns and of exceptional uniformity and strength. Each piece bears our label and is packed in sanitary glassine envelope, no waste or soiling.

"TRUSEW" CHAMOIS FINISH LONG CLOTH

Even weave, selected carded and combed yarns, perfect bleach, superfine soft finish, exceptionally fine laundering qualities. Sanitary packing—each piece in paper envelope, no stamping, no soiled pieces no lost yardage. Bookfold, 12 yds. in pc

4M179—	25 in.	fair quality	Yd.	15c
4M86—	30 "	good quality	"	21c
4M7854	36 "	good quality and count	"	33c
4M35—	36 "	popular quality and width	"	37½c
4M7858	36 "	good quality and count	"	40c
4M7856	36 "	extra quality and count	"	45c
4M7857	36 "	fine quality and finish	"	50c
4M7858	36 "	extra fine quality and finish	"	57½c
4M7860	36 "	superior quality high count and finish	Yd	61½c

"BROOKFIELD" INDIA LINON

Selected carded and combed uniform long Egyptian yarns, best bleach, weave and finish, sanitary packing, each pc in transparent waxed paper sew, no stamping no soiled pieces, no lost yardage. Bookfold, 25 to 30 yds. in pc.

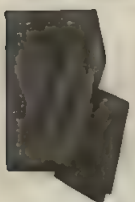
4M84	25 in.	fair quality	Yd	28½
4M157	25 "	good value	"	29
4M25	27 "	good quality	"	31½
4M155—	27 "	selected value	"	32½
4M7843—	27 "	extra quality and finish	"	35
4M7840	34 "	extra quality	"	39
4M7847	30 "	good quality and count	"	40
4M7849—30	"	extra good quality and count	"	47½
4M158	30 "	extra fine quality and count	"	50

4M84

WORK TROUSERS

Here are dependable work trousers that **sell.** Cut on full patterns, embodying highest grade workmanship and trimmings. Fabrics selected for

NOTE—Sold in any quantity or assortment of sizes. SPECIFY S



Diagonal Med. Tan Khaki Firm close diagonal fabric fast dye, 5 pockets, 5 belt loops, double stitched seams, patent buttons, cuff bottoms. Sizes 32 to 42, all

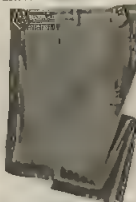
8D2626—MED TAN. Doz. **$21.00**

Diagonal Olive Khaki Firm close diagonal fabric, fast dye, 5 pockets 5 belt loops double stitched seams, patent buttons cuff bottoms. Sizes 32 to 42 in. waists, 30 to 34

8D2627—OLIVE Doz **$21.00**

Med. Brown Khaki triple stitched seams, reinforced at bar, riveted buttons 5 pocket cuff bottoms. Sizes extra 30 to 34 in. in

8D2300 MED BROWN **$23.00**



Blue 5 belt loops, cuff bottoms. to 42 in waists 30

8D2302—BLUE GRAY **$24.00**

Gray Striped Black Cabin Worsted Firmly woven, good wt. close gray pencil stripes, 5 pockets, 6 strong belt loops, riveted buttons, plain bottoms. Sizes 32 to 42 waists, 31 to 38 in inseams

8D2307—BLACK, gray stripe. Doz. **$26.00**

Med Brown 30 to 34 in. inseams

8D2311 **$25.00**

Gray Striped Bla wt. cable **Cotton Wor-** worsted belt stripe, cap back, 5 pocket loops, heavy unbleached drill cuffs and waist band rivets, plain bottoms. Sizes to, waists, 31 to

$25.00

Med. Gray Cotton Worsted Heavy wt. firmly woven cable cotton worsted, cap back, 5 pockets

31 to 8D2311 MED **$26.50**

Gray Striped gray ground, narrow black stripes both sides alike 5 pockets 2 buttons and 3 plain bell loops, riveted buttons, pearl drill pocketings and waist band, cuff bottoms Sizes 32 to 42 in waists, 30 to 34 inseams

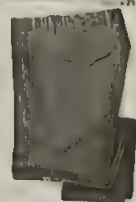
8D2307—GRAY, black stripes. Doz. **$28.50**

Med Brown Heavy Wt. Khaki— wt. firm closely woven pro fast dye drab khaki, strong belt loops and drill trimmings, flaps on hip pockets, riveted suspender and fly buttons, cuff bottoms Sizes 32 to 42 in. waists, 30 to 34 in. inseams

8D2312 MED. BROWN **$28.50**

Striped Dk. Gray Cotton Wor- pencil fabric, striped pocketings and wa on bottom cuff bottoms to 42 in waists 30 to 38 in inseams

8D2316—DK. GRAY, herringbone Doz **$29.50**



Striped Med. Gray Cotton Wor- sted Heavy wt. fabric, black pencil and alternating diagonal stripes on med gray ground 5 pockets flap on 1 hip pocket, 6 belt loops, white drill pocketings and waist band, sewed-on buttons cuff bottoms. Sizes 32 to 42 in. waists, 30 to 38 in inseams Doz.

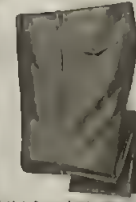
8D2317—GRAY, striped **$29.50**

Striped Oxford ray Cotton Wor- ted—Good through a and Oxford ground

striped Doz. **$29.50**

Med. Brown Moleskin Heavy 2.25 wt. cap back smooth finish mod ium soft of unusual wearing qualit 5 pockets, matched drill waist band bottoms 2 tunnel and 3 plain

To Arrive



Med Brown K pockettings, riveted suspender and fly buttons, cuff bottoms Sizes 32 to 42 in. waists, 30 to 34 in. inseams

8D2320—MED. BROWN KHAKI Doz **$23.50**

A Shaft Inc on gray ground fine pencil stripes 5 pockets 8 belt

8D2315—ME stripe

ish heavy cap on gray ground fine pencil stripes 5 pockets 8 belt loops, riveted pearl drill riveted buttons

8D2315—DRAB Doz. **$30.00**

Drab ish, cap back, 6 belt loops, 5 pockets flaps on hip pockets, fancy and riveted buttons, pockets and waist band of heavy wt. unbleached drill, cuff bottoms. Sizes 32 to 42 in. waists, 30 to 38 in inseams

Doz **$42.00**

Jefferson Wool pencil stripes 8D2325 BROWN mixed, gray broken stripe

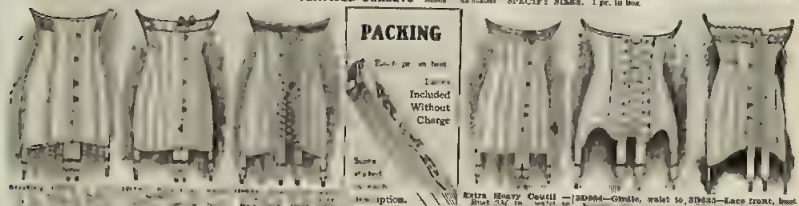
Doz. **$42.00**

Striped Dk. Doz. **$48.00**

CORSETS

Nationally advertised "W. T." and "Regal" brands that are always in big demand. [illegible] tops, hook and eye fasteners below clasps, and the best suspender web hose supporters.

"W. T." NATIONALLY ADVERTISED CORSETS—Sizes As stated SPECIFY SIZES. 1 pr. in box



back steels, 4 supporters, rubber bottom. Sizes 19 to 28. 3D448-PLESH 3D448-WHITE Doz. T. O.

cut, 4 supporters 19 to 28 Doz

Extra Heavy Coutil — embroidered top, non-rustable wire boning, 4 rubber button supporters. Sizes 19 to 28. 3D696-WHITE Doz. $22.50

3D686—Girdle, waist to front lacing, 3½ in. elastic back insert, 4 elastic hose supporters, rubber bottom. Sizes 19 to 28. Doz. $24.00

3D635—Lace front, bust

$24.00

bust, embroidery top, loose hips and back, non-rust wire boning, 4 supporters. Sizes 20 to 30.

rust wire boning, adjustable abdominal bands, patent close fit

waist to bottom, 4 coutil, reinforced, medium length skirt. Sizes

Lace front, bust 4 in., waist to bottom 16 in., steel guard brocade, medium bust, elastic sections

3D650 — Average figure, bust 38 to , waist to bottom 14½ in., heavy coutil with double front steels, medium bust, skirt with elastic reducing features in front and back, sizes

Lace Front—Bust 3½ in., waist to bottom 16 in., silk brocade, medium bust, long hips, satin ribbon top with lace braid edge, ventilating back with elastic section bottom, non-rustable

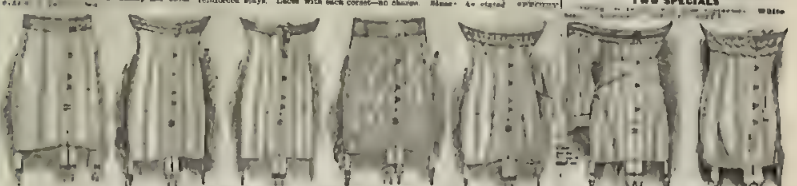
$72.00

"REGAL" QUALITY CORSETS

reinforced steels. Laces with each corset—no charge Sizes As stated SPECIFY

TWO SPECIALS

White



3D1411—Topless model, waist to bottom 14 in., coutil, flesh color, 3 in. elastic top, lace back, 4 rubber button supporters. Sizes 19 to 28.

Doz. $27.00

Coutil — Bust 3½ in., waist to bottom 14 in., silk embroidered top, reinforced non-rust boning, 4 rubber button hose supporters, lace back. Sizes 20 to 30.

3D1228—WHITE, 3D1228—FLESH Doz. $24.00

ber hose supporters, lace back. Sizes 20 to 30 . . . . Doz. $33.00

reinforced steels, 4 rubber button supporters. Sizes 19 to 28.

Doz. $33.00

ers, elastic hip inserts, 4 rubber button supporters. Sizes 20 to 30.

Doz. $36.00

Doz. $39.00

POPULAR PRICED CORSETS—Sizes As stated. SPECIFY SIZES

MISSES' CORSET WAISTS

Sizes As stated. SPECIFY SIZES.

3D6508—Bust 5 in., waist to bottom 24 in., strong twill, medium corset, 3

ery hog, 4 supporters. Sizes 19 to 30.

Doz. $8.50

flesh, 3D6511 Bust 4½ in., waist to bottom 13½ in., soft, med. band trim sup. 4 supporters. Sizes 19 to 30. . . . . Doz. $10.50

3D6511 Bust 4½ in., waist to bottom 13½ in. fine sterling cloth, average figure medium bust, spring wire boning, embroidery trim tops, 6 hose supporters. Sizes 19 to 30. Doz. $20.00

3D934—Bust 4 in., waist to bottom 7½ in., white, sterling cloth, lace trim. Sizes 20 to 30. ½ doz. box. Doz $13.50

DIAMOND RINGS

ENGAGEMENT & FANCY STYLES

Quality stones accurately described as to size. Each one the best obtainable at the price. Both engagement and fancy settings are latest styles that are in big demand

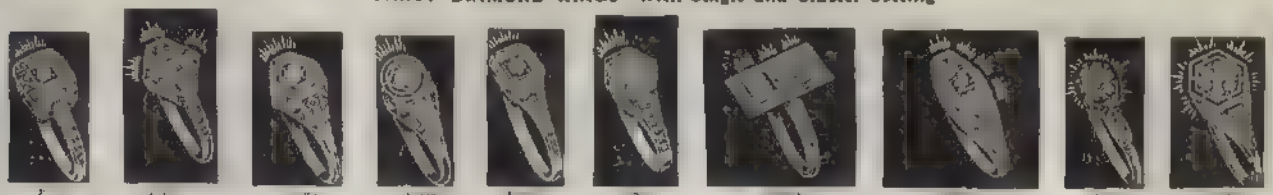
POPULAR PRICED DIAMOND RINGS

J9934 Ct. Each $31.50 | J9935 Ct. Each $46.50 | J9936 Ct. Each $75.00 | J9937 Ct. Each $132.00 | J9938 Ct. Each $215.00 | J9939 Ct. Each $269.00 | J9940 Ct. Each $340.00 | J9941 Ct. Each $465.00

FIRST QUALITY DIAMOND RINGS

J9921 Ct. Each $39.50 | J9922 Ct. Each $66.00 | J9923 Ct. Each $99.50 | J9924 Ct. Each $196.50 | J9925 Ct. Each $287.00 | J9926 Ct. Each $375.00 | J9927 Ct. Each $485.00 | J9928 Ct. Each $595.00

FANCY DIAMOND RINGS—With Single and Cluster Setting



J2382 14k green gold engraved mounting, white gold gallery effect top, 9 genuine cut diamonds. Each, **$27.50**

J2371 Green gold engraved mounting, white gold top, 5 genuine diamonds. Each **$37.50**

J2383 14k green gold finish, high pierced gallery effect mounting, platinum top, genuine cut diamond. Each **$42.50**

J2368 14k, green gold finish, high pierced gallery effect mounting, platinum top, genuine cut diamond. Each, **$49.50**

J2367 14k white gold mounting throughout, open work gallery effect top, engraved shank, large genuine cut diamond. Each **$57.50**

J2370 White gold mounting throughout, openwork gallery effect top, engraved shank, large genuine cut diamond. Each **$65.00**

J2386 14k green gold finish, pierced engraved shank, platinum top, set with 3 genuine cut diamonds. Each **$95.00**

J4370 14k, green gold finish, high pierced gallery effect mounting, platinum top, cluster setting of 7 genuine cut diamonds. Each **$95.00**

J2384 14k, engagement style, bright finish, engraved shank, platinum top, cluster setting of 7 genuine cut diamonds. Has appearance of 2 ct. diamond. Each **$100.00**

J2388 14k, bright finish, pierced gallery effect mounting, platinum top, cluster setting of 7 genuine cut diamonds. Each **$105.00**

J2385—14k, engraved shank, pierced gallery effect mounting, platinum top, set with 5 genuine cut diamonds. Each, **$110.00**

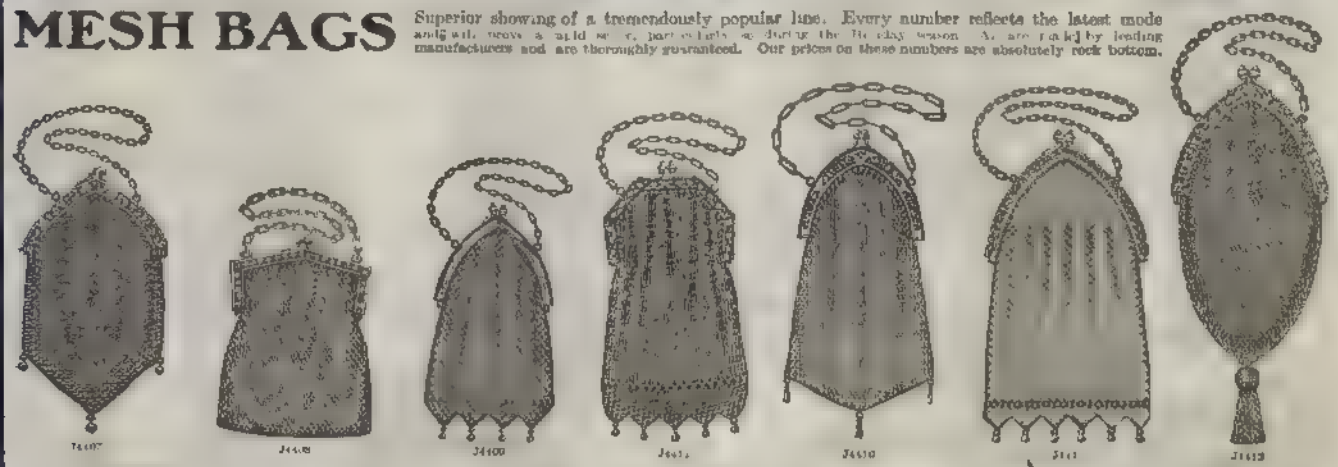
J2387—14k, hand engraved shank, openwork gallery effect mounting platinum top, set with 7 genuine cut diamonds. Each. **$115.00**

J3391 14k, engagement style, bright finish, hand engraved shank, platinum top, cluster setting of 7 genuine cut diamonds, has appearance of 2 ct. diamond. Each **$120.00**

J2392—14k, hand engraved shank, pierced gallery effect mounting platinum top set with 11 genuine cut diamonds. Each, **$150.00**

MESH BAGS

Superior showing of a tremendously popular line. Every number reflects the latest mode and will prove a valid source for purchasing the Holiday season. All are made by leading manufacturers and are thoroughly guaranteed. Our prices on these numbers are absolutely rock bottom.



J4407 J4408 J4409 J4410 J4411 J4412 J4413

J4415

J4407—Silver plated, 3½ in. wishbone frame, fancy engraved design, reversible ring mesh, 5 drop heavy cable link chain. In box. Each **$2.75**

J4408—Silver plated, 3½ in. fancy embossed oxidized silver frame, reversible ring mesh, heavy cable link chain. 1 in box. Each **$3.25**

J4409 Gold plated, green gold finish, 3½ in. wishbone frame, Sapphire style set clasp, plain polished reversible ring mesh, heavy cable link chain. 1 in box. Each **$4.75**

J4411 Silver plated, 3½ in. fancy embossed floral design frame, oxidized finish, sapphire style set clasp, reversible ring mesh, 5 ball drops, heavy cable chain. 1 in box. Each **$5.50**

J4413 Silver plated, 5 in. fancy embossed oxidized frame, clasp with sapphire style setting, fancy engraved mesh, 3 pendants with sapphire style settings, heavy cable link chain. 1 in box. Each. **$6.50**

J4414

3 in. Fancy Embossed Design Wishbone Frame—Reversible ring mesh, 3 oblong drops, heavy cable link chain.

J4410—Silver plated. Each, **$6.00**

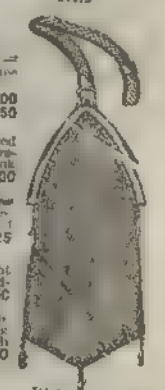
J4414—Gold plated, green gold finish. **7.50**

J4412—Silver plated, 4 in. fancy embossed oxidized frame, sapphire style set clasp, reversible ring mesh, 2 in. tassel, heavy cable link chain. 1 in box. Each, **$9.00**

J4417 Gold plated, green gold finish, 5 in. wishbone frame, oxidized finish, fine reversible soldered ring mesh, 3 pendants, 3 braided mesh straps, ball with polished bezel slide. 1 in box. Each. **$9.25**

J4415—Silver plated, 5 in. wishbone frame, bright burnished fine reversible soldered ring mesh, 5 pendants, trace link chain. 1 in box. Each **$14.50**

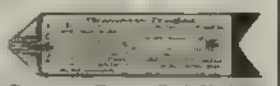
J4416 Gold plated, green gold finish, 5 in. wishbone frame, oxidized finish, fine reversible soldered ring mesh, 5 pendants, 3 braided mesh straps, ball with polished bezel slide. 1 in box. Each. **$16.50**



J4416

Richelieu Pearls

Nationally advertised, produced in the U. S. A. Finest reproduction of genuine pearls, solid and insoluble, not affected by wear. We offer the best selling graduations and popular lengths.



Guarantee Tag on Each Necklace

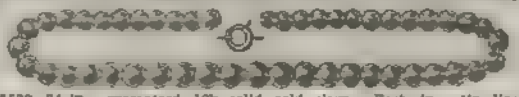
P. O. Quality

Solid insoluble beads with pearl luster will not peel or become discolored; guaranteed for five years. Each in satin lined leatherette case.

J5510—15 in., graduated, 10k solid gold ring clasp. Each in satin lined turquoise covered case. Each $6.10

J5534—18 in., graduated, 10k solid gold ring clasps. Each in satin lined hinged leatherette case. Each, $7.25

J5537—20 in., graduated, 10k solid gold ring clasp. Each in satin lined leatherette case. Each $8.05



J5538—24 in., guaranteed 10k solid gold clasp. Each in satin lined hinged leatherette case. Each $9.60

J5540—24 in., large graduation 10k solid gold ring clasp. Each in satin lined hinged leatherette case. Each, $10.50

J5581—16 in., graduated 14k torpedo clasp. 13.10

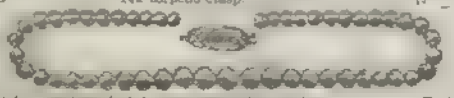
J5541—24 in., graduated, 14k solid gold ring clasp. Each in satin lined hinged leatherette case. Each, $13.25

J5563—34 in., medium size beads closed ends. Each in satin lined hinged leatherette case. Each $21.25

C Quality

Solid insoluble beads beautiful lustre; guaranteed perfectly matched permanently guaranteed not to peel or discolor. Each in satin lined hinged velvet box.

J5549—15 in., graduated, 14k white gold filigree clasp. Each, $15.00
J5535—18 " 14k torpedo clasp. 15.35



J5551—18 in., graduated 14k white gold filigree clasp. Each $17.75
J5539—20 " 14k gold clasp. 17.85

J5555—20 in., graduated, 14k white gold filigree clasp. Each, $19.25
J5541—24 " 14k torpedo clasp. 20.85

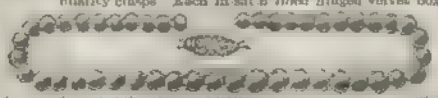
J5560—24 in., graduated, 14k white gold filigree clasp. Each, $22.25
J5548—30 " 14k torpedo clasp. 25.35

J5561—30 in., graduated, 14k white gold filigree clasp. Each $26.75

J5564—34 in., medium size beads, closed ends. Each $42.50

B Quality

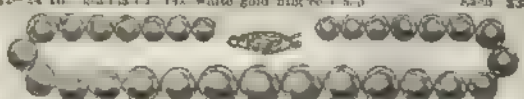
Fine high luster beautiful pearly sheen, all beads carefully matched, permanently guaranteed not to peel or discolor. Good quality clasps. Each in satin lined hinged velvet box.



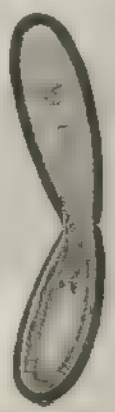
J5533—18 in., graduated 14k white gold filigree clasp. Each $19.25

J5536—18 in., graduated 14k white gold filigree clasp. Each, $26.35

J5542—24 in., graduated 14k white gold filigree clasp. Each $38.25



J5547—30 in., graduated, 14k white gold filigree clasp. Each, $52.75



A Quality

Extra special white gold filigree clasp, specially graded, perfectly matched pearls of rare soft lustre and beautiful sheen. Each in satin lined hinged velvet case.

J5572—16 in., graduated 14k white gold pierced clasp. Each $29.75

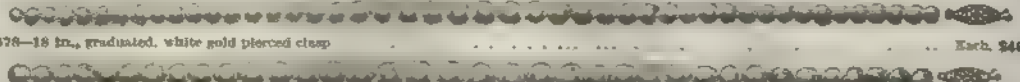
J5574—18 in., graduated 14k white gold filigree clasp. Each $40.50

J5576—24 in., graduated, 14k white gold pierced clasp. Each $55.75

J5577—24 in., graduated 14k white gold clasp, genuine cut diamond set. Each $64.00

XX Quality

Perfect reproduction of genuine pearls with a beautiful iridescent luster. The average person can't tell them from the genuine. Each bead carefully matched to insure perfection. Ideal gift items. Permanently guaranteed not to peel or discolor. Each in satin lined hinged velvet case.



J5578—18 in., graduated, white gold pierced clasp. Each, $46.

J5580—24 in., graduated, white gold pierced clasp. Each $68.9

J5579—18 in., graduated, platinum clasp, genuine cut diamond set. Each, $82.35

J5581—24 in., graduated, platinum clasp, genuine cut diamond set. Each $105.00

STRAND SKIS

The young people of America have adopted and made very much of the Norwegian ski sport. Wherever the snowfall is sufficient to make good, steady sleighing the use of skis in work and play is becoming popular, and in those regions where the snow becomes deep, as it does in the Northwest, the sport has its enthusiastic votaries.

Our Skis are designed by experts and made of selected material, carefully prepared and fashioned in accordance to the time from which is absolutely essential in correct skis.

Made of the Best Quality Selected Stock Norway Pine, Finished in Natural Wood with several coats of Oil and Waterproof Varnish and have Heavy Fancy Toe Straps and Rubber Foot Rests

Nos.	3SP	4P	5P	6P	7P	7SP	8P
Length, Feet	3½	4	5	6	7	7½	8
Per Pair	$0.90	1.00	1.25	1.50	2.00	2.50	2.75

Made of the Best Quality Selected Maple Stock in a Beautiful Mahogany Finish, with Fancy Grooved White Stripes. Supplied with Heavy Toe-Straps and Corrugated Rubber Footrests

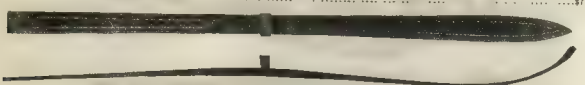
Nos.	4M	5M	6M	7M	7SM	8M
Length, Ft	4	5	6	7	7½	8
Per Pair	$1.50	2.00	2.50	3.00	3.50	4.00

LEVEL-LAND RACER

Made of Selected Straight Grained Ash, with Straight and Rabbeted Sides and is Supplied with Patent Bindings and Corrugated Rubber Footrests.

Per Pair

No. 9SA—9½ Feet Long $7.25



THE EXPERT

Made of the Best Selected Quality Ash or Oak Stock that can be obtained. Finished in Black with Fancy Grooved White Stripes, also in Natural Wood with Dark Stripes. Fitted with No. 5 Binding and Corrugated Footrests.

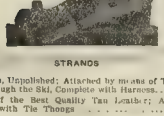
Nos.	7A	7SA	8A
Length, Ft.	7	7½	8
Per Pair	$5.75	6.25	6.75

THE CHAMPION

Made of the very Best Quality Straight Grained Second Growth Hickory. Finished in Black, with Fancy Grooved White Stripes, also in Natural Wood with Dark Stripes. Equipped with No. 5 Binding and Corrugated Rubber Footrests.

Nos.	7H	7SH	8H
Length, Ft.	7	7½	8
Per Pair	$7.00	7.50	8.00

SKI BINDINGS



STRAPS

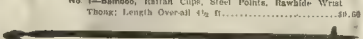
Per Pair

No. 5—Cast Iron, Unpolished; Attached by means of Two Bolts passing through the Ski, Complete with Harness $1.50

No. 23—Made of the Best Quality Tan Leather; Adjustable Toe Band, with Tie Thongs 1.00

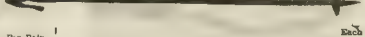
Open Stock

PUSH STICKS



Each

No. 1—Bamboo, Rattan Cups, Steel Points, Rawhide Wrist Thong; Length Over-all 4½ ft. $0.60



Each

No. 2—Selected Straight Grained Ash Stick, Steel Point with Rattan Cup, Rawhide Wrist Thong, Useful in Coasting as Brake and for Steering; Length 6 ft. $0.60

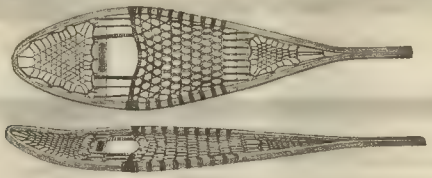
Open Stock

SNOW SHOES

"The Filling Will Not Sag"

The Bows or Frames are made from Carefully Selected Second Growth, Maine Grown White Ash This is the Best Wood Obtainable for this use as it is light and strong and holds its shape perfectly after being steamed and bent.

For Fillings is used only the Best Neatshide By a Special Treatment this is the most Durable Filling Obtainable The manufacturers do not splice join) the filling in the bodies of the shoes more than two inches from the bows or bars and never on the under side of these In the toes and heels of the Men's Shoes is used a double strand around the sides with which the filling is linked, making this part of the shoe much stronger. Shoes are perfectly balanced—a very important feature.

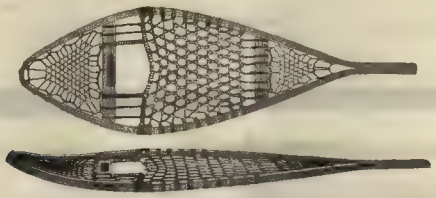


"MICHIGAN" MODEL

This style is used by Lumbermen and Timber Cruisers, it is also a good shoe for general use. It has a Slightly Curved Toe, Coarse Mesh

Per Pair

No. 74—Size 14x48 in. $11.00



"VANCOUVER" MODEL

This Shoe was especially designed for Trappers' use, but is a very good style for general wear.

Per Pair

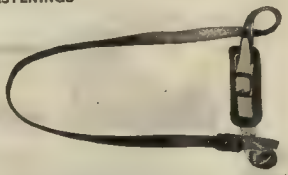
No. 75—Size 14x42 in. $10.00

SNOW SHOE FASTENINGS

The main part of this Slipper is made of Strap Leather in either russet or black. The strap is of heavy face leather. This is a good rig to use with moccasins.

Per Pair

No. C—Men's Size. Fastens to Snow Shoe by Strap that passes around heel $2.50



Made from Indian Tan Lace Leather. Fastens to Snow Shoe by means of strap which passes around back of heel

Per Pair

No. F—Men's Size $2.00

MILWAUKEE CURB GASOLINE OUTFITS

'SELF-MEASURING' PUMPS AND TANKS FOR KEROSENE AND OIL

34 TYPES TO CHOOSE FROM

LABELED BY INSURANCE UNDERWRITERS

50,000 IN USE

ASK YOUR JOBBER OR SEND FOR CATALOG

MILWAUKEE TANK WORKS MILWAUKEE, U.S.A.

WALDEN WORCESTER WRENCHES

FOR EVERY MOTOR NECESSITY

SEND FOR CATALOG NO. 500
WALDEN WORCESTER, INC. WORCESTER, MASS.

THE GENUINE CANNON PUMP OILER

...uent a long felt demand for an oil can in which the oil is certainly controlled by the operator in whatever position the can may be held. All brass valves seats and valve springs heavily re-inforced body and bottom construction, will last a lifetime.

Two Types:
Brass or Tin

Size No.	Pts.	Dia. In	Length Spout In.
4	1	2½	6
1	½	3	8
2	1¼	3½	12
2½	3	4	15
3	5	5	20

Write Your Nearest Jobber or direct.

CANNON OILER CO. Keithsburg, Ill., U. S. A., Sole Mfr.

Registered.

EMPRESS GREASE AND OIL CUPS

Trade Mark

CAN BE USED ON ALL, ARE USED ON MOST

AUTOMOBILES, MOTOR TRUCKS, TRACTORS, FARM IMPLEMENTS, AND ON ANY TYPE OF MACHINERY NOW IN USE

YOUR ACCESSORY STOCK IS NOT COMPLETE WITHOUT THEM.

SEND FOR CATALOGUE "L" TODAY

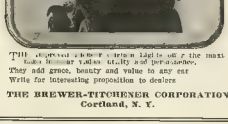
BOWEN PRODUCTS CORP.

Auburn Div., Auburn, N. Y. Whitney Div., Detroit, Mich.
Zark Div., Cleveland, Ohio Minneapolis Div., Minneapolis, Minn.
Canadian Factory—Canadian Whitney Co., Ltd., Windsor, Ont.

PEPCO

TRADE MARK REG.

PENNSYLVANIA PISTON RING CO.
CLEVELAND, OHIO



THE improved Brewer-Titchener Light is one of the most beautiful vehicle lights ever produced. They add grace, beauty and value to any car Write for interesting proposition to dealers

THE BREWER-TITCHENER CORPORATION
Cortland, N. Y.

ALWAYS THE TRADE APCO MARK RIGHT

EQUIPMENT FOR FORD CARS

Our 1920 catalog is now ready for you. Twenty-five items, all good sellers and big profit getters.

APCO MFG. CO., Providence

PEP

Water-Mixed GRINDING COMPOUND

Saves valves in half the time ordinarily required. Eliminates the ball-take rings that cause imperfect work. Saves the cost and waste of a second grade.

See Automobile Trade Directory for list of jobbers

Worcester Abrasive Co.
Worcester, Mass.

MILWAUKEE CURB GASOLINE OUTFITS

'SELF-MEASURING' PUMPS AND TANKS FOR KEROSENE AND OIL

34 TYPES TO CHOOSE FROM

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WALDEN WORCESTER WRENCHES

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WALDEN WORCESTER, INC. WORCESTER, MASS.

THE GENUINE CANNON PUMP OILER

...uent a long felt demand for an oil can in which the oil is certainly controlled by the operator in whatever position the can may be held. All brass valves seats and valve springs heavily re-inforced body and bottom construction, will last a lifetime.

Two Types:
Brass or Tin

Size No.	Pts.	Dia. In	Length Spout In.
4	1	2½	6
1	½	3	8
2	1¼	3½	12
2½	3	4	15
3	5	5	20

Write Your Nearest Jobber or direct.

CANNON OILER CO. Keithsburg, Ill., U. S. A., Sole Mfr.

Registered.

EMPRESS GREASE AND OIL CUPS

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SEND FOR CATALOGUE "L" TODAY

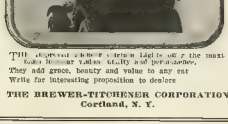
BOWEN PRODUCTS CORP.

Auburn Div., Auburn, N. Y. Whitney Div., Detroit, Mich.
Zark Div., Cleveland, Ohio Minneapolis Div., Minneapolis, Minn.
Canadian Factory—Canadian Whitney Co., Ltd., Windsor, Ont.

PEPCO

TRADE MARK REG.

PENNSYLVANIA PISTON RING CO.
CLEVELAND, OHIO



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See Automobile Trade Directory for list of jobbers

Worcester Abrasive Co.
Worcester, Mass.

HARD BOILED CAPS

MINERS

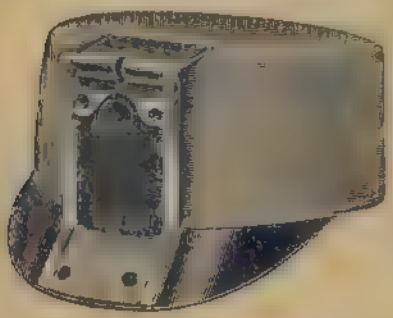
THE SOUTHWESTER

INDUSTRIAL

Fibre and paper cemented and pressed together under patented process. The lining is so constructed that it hammocks on the head, thus completely distributing the whole force of any blow. Head injuries are preventable. Withstands 400 lbs pressure, 5000 volts, acid and water. Weight, 9 ozs each.

Miners Cap	Per dozen $2.25
Southwester Cap	" 2.50
Industrial Cap	" 2.00

MINERS CAPS



Carried in following sizes—6⅝, 6¾, 6⅞, 7, 7⅛, 7¼, 7⅜, 7½.

Made of heavy weight special shrunk duck, flannel lined. Visor is made of heavy material covered with duck and not affected by dampness. Lamp holder fiber and tin

No. 234—Brown . Doz $4.00
No. 235—White . " 4.00
One dozen in a box.

Made of heavyweight special shrunk duck. Flannel lined. Visor and lampholder made of specially treated vulcanized fiber.

No. 236—Brown . Dozen $6.00
One dozen in a box.

MINERS SUPPLIES

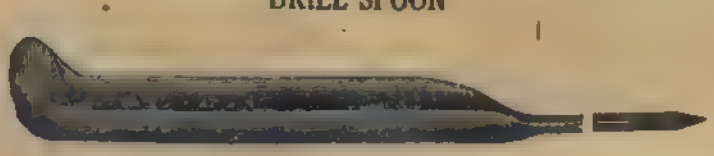
GOLD PANS

One piece of smooth iron. Flaring pattern.

	Plain		Polished	
Nos.	25	41	22	42
Diameter, inch	6¾	16	12	16
Height, inch	1⅛	2⅛	2	2½
Weight per dozen, lbs.	3	21	18	21
Per dozen	$9.00	15.00	15.00	16.00

Loose.

DRILL SPOON



No. 7—¾-inch Pod. Assorted lengths, 30 to 36 inches
Average weight per dozen, 12 lbs. Per dozen $7.50

No. 9—⅞-inch Pod. Assorted lengths, 36 to 48 inches.
Average weight per dozen, 12 lbs. Per dozen

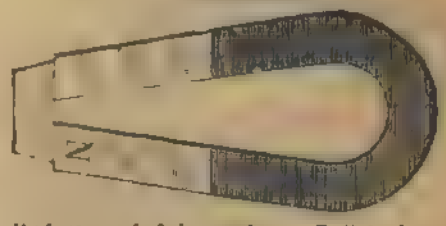
Loose.

MORTARS AND PESTLES

For grinding and compounding drugs, minerals, etc. Heavy cast iron, japanned outside, ground inside. Ground end pestle japanned

Nos.	00	01	02	04	06	08
Capacity, qts	½	1	2	4	6	8
Depth, inch	4	5	5¼	6	...	8
Wt. of pestle, lbs.	1½	2	2¾	3½	5	7
Wt. of both, lbs	5½	12	20	24½	42	51
Each	$4 50	6.00	7 00	9.00	15.00	17.50

MAGNETS



Red enameled horseshoe. Polished poles.

Nos.	3	4	5	6	7	8
Length, inch	3	4	5	6	7	8
Weight per dozen, lbs.	1½	3	4½	8	13	18
Per dozen	$3.50	7.00	12 00	15 00	19 00	25.00

MINERS SUPPLIES

HERCULES CAP CRIMPER

Steel nickel plated. Sharp crimping edge making groove crimp. Fuse splitter nose.

No.	14
Length over all, inch	6
Weight per dozen, lbs	4
Per dozen	$14 00

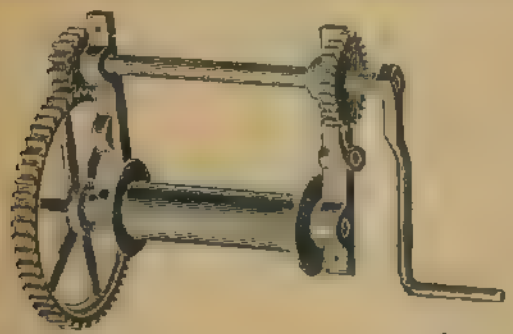
Three dozen in box.

FUSE

Two coils. Fifty feet each in package. Either 3000 or 6000 feet in case. Weights given are for 6000-foot cases.

Single Tape—For use in damp ground. Weight per case, 105 lbs.	Per 1000 feet $13 00
Comet—For use in damp work. Weight per case, 121 lbs	Per 1000 feet 12.00
Comet Special—For use in damp work. Weight per case, 121 lbs	Per 1000 feet 12.75
Double Tape—For use in very wet ground. Weight per case, 125 lbs.	Per 1000 feet 14.00
Triple Tape—For use in water and heavy tamping. Weight per case, 130 lbs	Per 1000 feet 15.00
Dreadnaught—For use in water and heavy tamping. Weight per case, 130 lbs.	Per 1000 feet 13.00
Bear Brand—A gutta percha fuse with tape protection. Used in all kinds of mining and stands water well. Weight per case, 130 lbs.	Per 1000 feet 14.00

HAND WINDLASS
SINGLE PURCHASE. FOR MANILA ROPE



Nos.	1	5
Lift capacity, lbs.	700	1500
Size of drum, inch	3½x11¼	3½x24
Diameter of gear, inch	14½	14½
Diameter of pinion, inch	3½	3½
9½-inch cranks	1	2
Weight each lbs	110	200
Each	$29.00	45.00

No. 1 for one man; No. 5 for two men.

LOCK STENCILS

Sheet Brass, Interchangeable

A 70-piece combination set of brass letters and figures. The interlocking feature allows the pieces to be fastened to either, making a solid stencil. The locks do not interfere with the stencil brush as they present a smooth surface. Set contains, besides the stencil characters, a corner piece, border piece, stencil brush and stencil ink. In a cardboard box.

No. 2A—Size, inch	¾	1	1½
Weight per set, lbs	¾	1	1¼
Per set	$3 50	4.00	4.50

The edges of each plate are crimped so that the plates can be slipped one into another to form any word. Contains 100 pieces comprising figures, letters, punctuations, etc. Characters are set in wood box in upright positions in slots with sufficient space between to get at them conveniently.

No. 2B—Size, inch	¾	1	1½
Weight per set, lbs	1½	1¾	2
Per set	$3.75	4.25	4.50

STEEL FIGURES

For stamping wood, leather or metal. Forged from best quality cast steel. Warranted hard and tough and to cut sharp and true.

Sets of 9—						
Size, in.	⅛	¼	¼	⅜	½	⅝
Wgt set, lbs	¾	1	1¼	1½	2	3½
Set	$1.25	1.50	2.00	2.50	3.00	4.50
Single Figures—						
Each	$0.20	.25	.30	.35	.45	.60

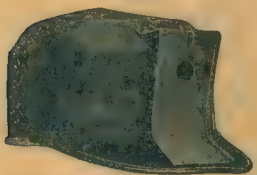
STEEL LETTERS

Forged from best quality cast steel. A to Z characters, etc.

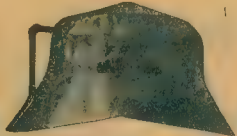
Single Letters—						
Size, inch	⅛	¼	¼	⅜	½	⅝
Weight per set, lbs	1½	2¼	3¼	3½	5	10
Per set of 27	$3 75	4 50	6 00	7 50	9.00	13.50
Each	$0.20	.25	.30	.35	.45	.60

HARD BOILED CAPS

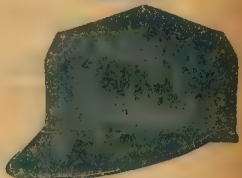
MINERS



THE SOUTHWESTER



INDUSTRIAL



Fibre and paper cemented and pressed together under patented process. The lining is so constructed that it hammocks on the head, thus completely distributing the whole force of any blow. Head injuries are preventable. Withstands 400 lbs pressure, 5000 volts, acid and water. Weight, 9 ozs each.

Miners Cap	Per dozen	$2.25
Southwester Cap	"	2.50
Industrial Cap	"	2.00

MINERS CAPS

Carried in following sizes—6⅝, 6¾, 6⅞, 7, 7⅛, 7¼, 7⅜, 7½.

Made of heavy weight special shrunk duck, flannel lined. Visor is made of heavy material covered with duck and not affected by dampness. Lamp holder fiber and tin.

No. 234—Brown . Doz $4.00
No. 235—White . " 4.00
One dozen in a box.

Made of heavyweight special shrunk duck. Flannel lined. Visor and lampholder made of specially treated vulcanized fiber.

No. 236—Brown . Dozen $6.00

One dozen in a box.

MINERS SUPPLIES

GOLD PANS

One piece of smooth iron. Flaring pattern.

	Plain		Polished	
Nos.	35	41	22	42
Diameter, inch	6⅝	16	12	16
Height, inch	1⅛	2½	2	2½
Weight per dozen, lbs.	8	21	18	21
Per dozen	$9.00	15.00	15.00	16.00

Loose.

DRILL SPOON

No. 7—¾-inch Pod. Assorted lengths, 30 to 36 inches
Average weight per dozen, 12 lbs. . . . . Per dozen $7.50

No. 9—⅞-inch Pod. Assorted lengths, 36 to 48 inches.
Average weight per dozen, 12 lbs. . . . . Per dozen 7.50

Loose.

MORTARS AND PESTLES

For grinding and compounding drugs, minerals, etc. Heavy cast iron, japanned outside, ground inside. Ground end pestle japanned.

Nos.	00	01	02	04	06	08
Capacity, qts	½	1	2	4	6	8
Depth, inch	4	5	5¼	6	...	8
Wt. of pestle, lbs.	1½	2	2¾	3½	5	7
Wt. of both, lbs	7½	12	20	24½	42	51
Each	$4 50	6 00	7.00	9.00	15.00	17.50

MAGNETS

Red enameled horseshoe. Polished poles.

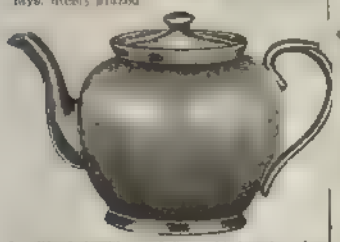
Nos.	3	4	5	6	7	8
Length, inch	3	4	5	6	7	8
Weight per dozen, lbs.	1½	3	4½	8	13	18
Per dozen	$3 50	7 00	12.00	15 00	19.00	25.00

KITCHEN WARE

AMERICAN AND ENGLISH MAKES. Big values and profitable sellers. Comparison of the goods and prices will reveal to you the low per unit cost of this merchandise and make evident the big advantage of ordering from this showing. Carefully selected

MONARCH GLOBE TEA POTS

Extra hard baked bright best American ware, nickel glazed



Jet Black Inside and Out—½ doz. in pkg

E345—46 oz.	3 cups	16 oz.	Doz.	$5.50
E346—48 oz.	4 "	24 "	"	6.25
E347—64 oz.	4 "	32 "	"	7.75
E348—80 oz.	4 "	32 "	"	9.00

Brown Inside and Out—½ doz. in pkg

E344—48 oz.	3 cups	18 oz.	Doz	$5.50
E345—48 oz.	3 "	24 "	"	6.25
E346—64 oz.	4 "	32 "	"	7.75
E347—80 oz.	4 "	40 "	"	9.00

ENGLISH ROCKINGHAM TEA POTS

"York"—Brown mottled wide white enamel band with brown centering narrow band at cover, heavy glazed inside and out. ½ doz. in pkg.

	Size	Cap.	Ht.	Doz
E367—32's	1½ pt	5 in		$7.10
E368—36's	2 "	6¼ "		8.25
E369—30's	3 "	5¼ "		9.75

"Cresswell"—Jet black, allover enamel decors, gold designs at the base, spout & cover, gold band around top & decors, burnt in, will not wear off, highly glazed inside and out. ½ doz. in pkg.

E385—4	½ pt	4¾ in	Doz $9.50
E386—36's	2 "	4¾ "	Temp Out
E387—30's, 3	"	5¾ "	... Doz $11.50
E388—34's, 3½	"	5¾ "	... Temp. Out

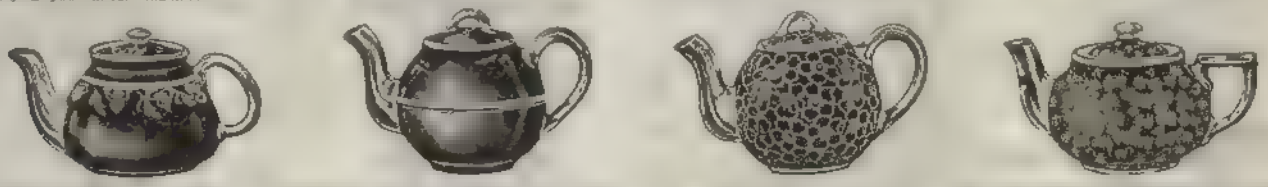
"Dresden"—Fine English ware, jet black, body is glazed inside and out, colored spout & cover, gold bands, same ornaments and scallops in wide border effect, gold decors burnt in and will not wear off. ½ doz. in pkg.

E371—34's, 3	1½ pt	ht. 4¾ in	Doz	$9.50
E372—36's, 3	"	4¾ "	"	10.50
E373—30's, 3	"	5¾ "	"	11.50

HALL'S VITRIFIED FIRE-PROOF TEA OR COFFEE POTS

Nationally Advertised

Hard well baked pure white china body, cobalt and green glaze, non-porous, non-absorbent positively will not craze; attractive, durable, sanitary, almost unbreakable. All with full gold spout, handle and knob



Cobalt Blue fancy stamped pansy border, band at edge.

E335—Ht. 4¾ in., 3 cups. 8 in pkg. Each $1.50
E336—Ht. 6 in., 4 cups. 3 in pkg. Each $1.80
E337—Ht. 6¾ in., 5 cups. 3 in pkg. Each $2.00

Emerald Green—Highly glazed, wide and narrow gold center bands and edge.

E331—Ht. 4¾ in., 3 cups. 8 in pkg. (Total $4.80) Each $1.60
E333—Ht. 6 in., 4 cups. 3 in pkg. (Total $5.40) Each $1.80
E334—Ht. 6¾ in., 5 cups. 3 in pkg. (Total $6.00) Each $2.00

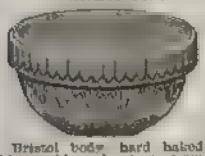
Cobalt Blue—Highly glazed allover gold stamped pansies, wide gold edge.

E334—Ht. 4¾ in., 3 cups. 8 in pkg. (Total $4.80) Each $1.60
E335—Ht. 6 in., 4 cups. 3 in pkg. (Total $5.40) Each $1.80
E336—Ht. 6¾ in., 5 cups. 3 in pkg. (Total $6.00) Each $2.00

Emerald Green—Highly glazed allover gold stamped floral centers with gold band.

E330—Ht. 4¾ in., 3 cups. 8 in pkg. (Total $4.80) Each $1.60
E320—Ht. 6 in., 4 cups. 3 in pkg. (Total $5.40) Each $1.80
E336—Ht. 6¾ in., 5 cups. 3 in pkg. (Total $6.00) Each $2.00

DELFT BLUE MILK CROCKS



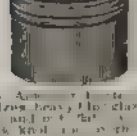
Bristol body, hard baked blue inside and out, neat embossing. Excelled by none for baking and kitchen work.

E745—Asstd. 1 doz. ½ gal., 1 doz. 1 gal., 1 doz. 2 gal., 1 doz. 3 gal. Assortment doz. in shipping pkg. 225 lbs. Doz. $2.65

E749—Asstd. 1 doz. 2 gal., 2 doz. 4 gal. Asstd. 3 doz. in shipping pkg. 225 lbs. Doz. $2.25 (Total $13.25)

E740—1 gal. jar, 4 doz. in shipping pkg. 225 lbs. Doz. $2.50

STONEWARE BUTTER AND SALT JAR ASST.



E928—Assorted brown body 2-stripe heavy blue glazed, bristol finish. Asstd. 4 doz. in pkg. 225 lbs. Total $9.00 Doz. $2.25

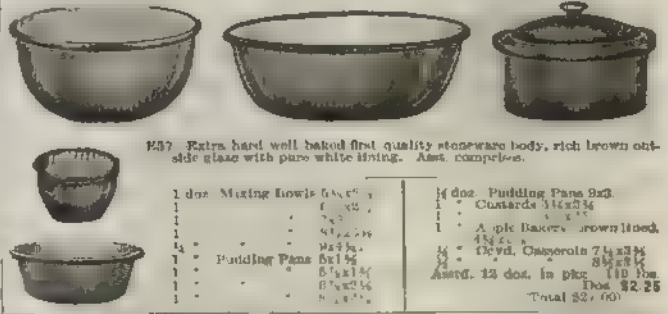
BRISTOL JUG ASSORTMENT

E948—3 styles, ht. 8½ in., extra hard white bristol body, brown and blue shaded lustre honeycomb glossed lined, an head butterfly and rose panel front and back. Asstd. 1 doz. pkg. 175 lbs. Doz. $2.95 Total $8.85

BRISTOL STONEWARE ASSORTMENT

E933—Extra hard baked R. K. selection, white glazed bristol body.
1 doz. jugs, ht. 8½ in., embossed butterfly border and center medallion.
1 doz. crocks, diam. 7½ in., blue mottled and banded.
1 doz. covered all stoneware butter dishes, 6 needlework and SALT, hole for hanging.
3 doz. fancy mugs.
(Total $8.85) Doz **$2.95**

BROWN AND WHITE COOKING WARE ASSORTMENT



E37—Extra hard well baked first quality stoneware body, rich brown outside glaze with pure white lining. Asst. comprises.

1 doz.	Mixing Bowls	5x3½	
1	"	6x3¾	
1	"	7x4	
1	"	8½x4¾	
½	"	9x4¾	
1	" Pudding Pans	6x1¾	
1	" "	8½x1¾	
1	" "	8½x2¼	
1	" "	9x2¼	

½ doz. Pudding Pans 9x3
1 " Custards 3½x2¾
1 " " 4x2¾
1 " Apple Bakers, brown lined, 4¾x2¾
½ " Oval Casserole 7½x3¾, 8½x3¾
Asstd. 12 doz. in pkg. 110 lbs. Doz. $2.25
Total $27.00

WILLOW BLUE UNDERGLAZED BRISTOL ASSORTMENT

E741—Blue underglazed extra hard baked good white body, strictly R. K. selection. Consists of 1 doz. each of the following:

Tankard jug, 5 qts., ht. 8¾ in.
Stone covered salt box, butterfly design, blue lettered "Salt."
Stone covered butter jar, diam. 6½ in.
Cuspidor 7½ in.
Asstd. 4 doz. in pkg. 101 lbs.
(Total $11.80) Doz. $2.95

FANCY WHITE EWER AND BASIN SET

E880—Pitcher ht. 11¾ in., has 9 pint capacity, best hard stoneware, gold white glazing, embossed ½ doz. sets a pkg. 140 lbs.
Doz. sets, $18.00

BROWN AND WHITE COOKING WARE—Open Stock

Round Handled Casserole | Pudding Pans | Cuspidor | Round Casserole | Nested Bowls

Custards—

E25—3½x2¾, cap. 7 oz.		Doz.	$0.92

Pudding Pans—

E16—4½x1¾, cap. ½ pt.		Doz.	$1.44
E17—5½x2	" ¾ "	"	2.00
E18—6½x2¼	" 1 "	"	2.25
E19—7½x2½	" 2 "	"	3.00

Bean Bakers—

E20—5¾x3½, cap. 2 pts.		Doz.	$4.95

Round Lidd Casseroles—

E1—6	2¾ cap. 1½ pts.		Temp. Out

Bean Bakers

Round Casseroles—

E6—7 in., cap. 2 pts.		Doz.	$6.75
E6—8 " " 3 "		"	8.75

Round Bowls—

E12—6	3¾ cap. 1½ pts.	Doz	$2.25
E13—8	4¾ " 3½ "	"	3.00
E14—9	5¾ " 4 "	"	4.95
E14—9	5¾ " 4 "	"	6.95

Nested Bowls
E36—1 each 6, 7, 8 and 9 in. 1 set in pkg. $2.27 (4 pcs.) $1.40

BRISTOL COMBINET OR SLOP PAIL

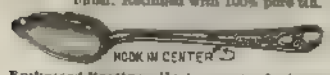
Ht. 12 in., 1 and 10 large full shape white bristol embossed glazed pail and 10 in. slop bowl, all enameled and glazed.
E743—one pail, one bowl, asstd. 1 pail, 1 bowl. Doz. $12.50
E741—½ doz. in pkg. asstd. Doz. $13.10

KITCHEN HARDWARE

You can count on increased sales and profits if you pay more attention to this important branch of your business. Use a few attractive leaders to stimulate sales. Look into your stocks and see that they are not lacking in any particular line. Complete stocks offer an inducement for repeat sales. Our prices insure satisfactory profits to merchants who select stocks from the following pages.

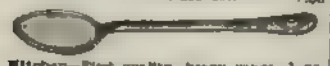
"W. B. W." SPOONS

Made for us by Wallace Brothers, the silverware manufacturers. No other make equals these in weight and finish. Retinned with 100% pure tin.



Embossed Basting—Hook in center for hanging. Made of one piece of tin.

1H2944—12 in. 1 doz. in box. Doz. $1.12
5 doz. lots. 1.08



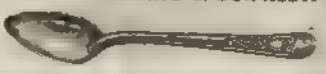
Kitchen—First quality, heavy gauge, 1 pc. steel, retinned hole for hanging. 1 doz. in pkg.

	Doz.	Doz.
1H2950—10 in.	$1.32	$1.38
1H2950—12 "	1.68	1.75
1H2951—14 "	2.05	2.10
1H2952—16 "	2.35	2.45
1H2953—18 "	2.65	2.85

Heavy Basting—1 in. heavy gauge, forged steel, retinned hook in back for hanging on side of pan, hole for hanging.

1H2881—1 doz. in pkg. Doz. $1.75
6 doz. lots. " 1.65

"L & G" RETINNED BASTING SPOON ASST.



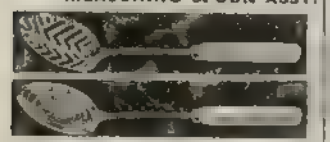
STAR VALUE

1H7973—1 pc. stamped steel basting spoons, retinned, embossed design on handles. Assorted as follows:

1 doz. 10 in.	3 doz. 13 in.
3 " 12 "	10 "

Assd. 6 doz. in case.
Total $5.04 Doz. **84c**

"PURITY" MIXING AND MEASURING SPOON ASST.

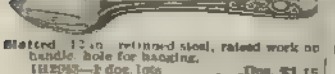


1H2942—3 styles, 10½ in. heavy steel bowls, rapid action perforated strainer and graduated steel measuring bowls, nickeled and polished brass with grained square handles, nickeled ferrules. Assd. 1 doz. in box. Emp. Co.

MIXING SPOONS OR BEATERS

Perforated—11 in., thin retinned steel blade, black varnished wood handle ferrule.

1H300—1 doz. in pkg. Doz. $1.05
1 doz. ass'd. .95



Slotted—12 in. retinned steel, raised work on handle hole for hanging.

1H2953—1 doz. lots. Doz. $1.15
3 doz. lots. " 1.05

"A. & J." MEASURING SPOON

1H2826—Size ¼ to nickel plated steel, graduated ¼, ½ and 1 tea and tablespoons, nickeled plated shank, 4 in. square rubber handle. Last lot. 1 doz. lots. Doz. $1.35
" " 1.30

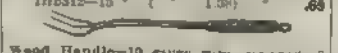
"SUPERIOR" 8 Pc. KITCHEN SET

1H6820—8 pcs. tempered steel knives, black rubberized handles, wall rack. Set can be used for pot scrapers. Set consists of: kitchen saw 13 in., cleaver 11½ in., carving steel, 8 in., butcher knife, 8 in., kitchen fork, 11½ in., cake turner, 11 in., mixing spoon 11½ in., can opener, 6½ in., paring knife, 7½ in. 1 set in carton.
SET (8 pcs.). $1.85

KITCHEN FORKS

Wire Handle—9 gauge wire, retinned, 3 tines. 2 doz. lots.

1H5311—12 in. (Total $1.20) Doz. $0.60
1H5312—15 " (" 1.38) " .69

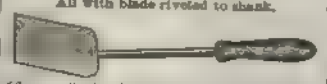


Wood Handle—10 gauge wire, retinned, 3 sharpened tines, natural finish wood handle ferrule, ring end. 1 doz. lots.

1H5315—15 in. Doz. $1.10
1H5317—18 in. Temp. Out

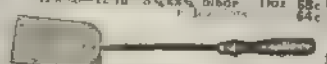
CAKE TURNERS

All with blade riveted to shank.



Cherry Stained Handle—Polished steel blade. 3 doz. in box.

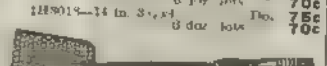
1H3025—12 in. 3¼x2¾ blade. Doz. 68c
6 doz. lots. " 64c



Oak Stained Handle — Polished steel blade. 3 doz. in box.

1H3017—12 in. 3¼x2¾ Blade. Doz. 75c
6 doz. lots. " 70c

1H3014—14 in. 3¼x3¼ " Doz. 75c
6 doz. lots. " 70c

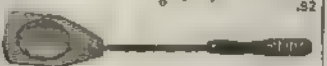


Perforated Blade—Polished steel perforated blade, varnished handle, nickeled ferrule. 3 doz. in box.

1H3020—12 in. 4x3¾ blade. Doz. 85c
6 doz. lots. " 80c

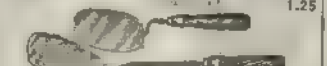
Irregular Shape Blade—Polished steel blade, varnished handle, nickeled ferrule.

1H3019—10 in., 6¼x4 blade.
1 doz. in box. Doz. $0.55
6 " " .52



Cake and Egg Turner—Nickeled perforated polished ebonized handle, edge ground, depression for eggs. 1 doz. in box.

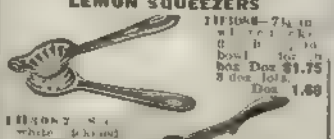
1H3022—10 in., 3¾x3¼ blade. Doz. $1.35
" " 1.25



4 Style Asst. Regular and oval cape, plain and perforated blades, long handles with 3¼x3 blades, trowel shape 6¼x4 waxed oak handles.

1H6885—1 doz. in box. Doz. $0.74
Total $1.48

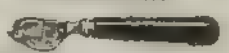
LEMON SQUEEZERS



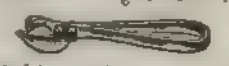
1H3040—7¼ in. white enameled steel bowl, nickeled handle, 1 doz. in box. Doz. $1.75
3 doz. lots. " 1.60

1H3045—7 in. white enameled steel bowl, 3 in. pointed bowl. 1 doz. in box. Doz. $3.35

CAN OPENERS

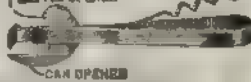


1H3043—6 in., crucible tempered steel blade, black enameled wood handle, nickeled ferrule. 3 doz. lots. Doz. 75c
6 " " 70c

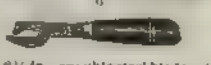


1H3041—5 in., nickeled and polished steel blade, double riveted with non-slip guard. 3 doz. lots. Doz. Temp. Out
6 " " "

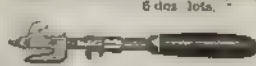
1H3040—"Crown" opens round or square cans, no ragged edge. Junk can be used as sharp cutting edge, with guard. 4 in. polished maple handle, brass ferrule. 3 doz. lots. Doz. 95c
6 " " " 92c



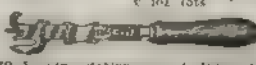
1H3048—2½ in. tempered steel blade, can opener, bottle opener, screw opener and remover, cork and cap from bottle. With show card. 1 doz. in display box.
3 doz. lots. Doz. $0.95
6 " " .92



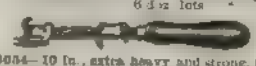
1H3044—6½ in., crucible steel blade, nickeled tempered, ebony finish hdl., nickeled ferrule. 1 doz. in box. Doz. Temp.
6 doz. lots. " Out



1H3027—5 in. nickeled steel blade sliding knife opens any style can, black enameled wood handle, nickeled ferrule. 1 doz. in display box. Doz. $1.50
6 doz. lots. " 1.44



1H3035—4 in. stationary and sliding blade, opens round or square cans, nickel plated tempered steel cutting blade with cap lifter, 4 in. rubberoid finish handle. 1 doz. in display box. Doz. $1.65
6 doz. lots. " 1.75



1H3034—10 in., extra heavy and strong, hardened and tempered steel stationary and sliding blade with can lifter, opens round or square cans, opener is nickel plated in rubberoid finish handle. 1 doz. in display box. Doz. $1.85

"HANDI-CAPPER" BOTTLE CAPPER

1H3104—Cast iron base and head, nickel plated steel rod and handle, steel plunger and capper, rustproof aluminum finish adjustable head, caps all sizes bottles, fiber cap base interchangeable. 1 in carton 4 lbs. Each $1.35
Lots of 6 " 1.25

VEGETABLE AND FRUIT PRESSES

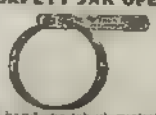
1H3033—1 pt. stamped iron frame, heavy retinned malleable iron masher parts, rated 2 cap press. 1 doz. in pkg.
1 doz. " $4.20
6 doz. lots. " 4.10

1H3552—11 in., extra heavy seamless cup, japanned iron frame, retinned iron masher perforated. 1 pt. cap. 1 doz. in pkg. Doz. $4.75
3 doz. lots. " 4.65

WINE OR JELLY PRESS

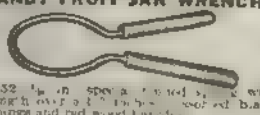
1H3038—"Simplex" 2 qt., 12 in. malleable iron frame, 3 polished 1X tin cylinders 5¾x8, outside one solid, inside one perforated, cold drawn steel screw, drop bar and ears. For wines, syrups, jellies, lard, etc. 1 in pkg. Each $4.20

"ECCO" SAFETY JAR OPENER



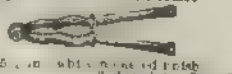
1H2818—Steel band, polished nickel plated, steel handle, grooved to clasp edge, cut under rubber ring, opens pint and quart jars. 1 doz. in box. Doz. $1.75

HANDY FRUIT JAR WRENCH



1H3952—¼ in. spring tempered steel wire, eight over 2 in. to open wood back oranges and red wood handles.
2 doz. lots. Doz. $0.80
6 " " .75

5¼ IN. NUT CRACKER



1H3101—5¼ in. white enameled finish.
2 doz. lots. Doz. 65c
Total $1.30

"BLUE BIRD" CLOTHES LINE WITH REEL

For indoor, yard or roof drying.

1H5051—50 ft. thickly braided cord in blue plaid effect. Nickeled handles and attachments with ratchet, to loosen or tighten cord. Complete with hooks, etc. 6 doz. in pkg. Doz. $4.20

FLOWER POT OR LAMP BRACKETS

1H3531—5½ in. ring, 5 in. arm, cast iron, dark bronze finish, swinging socket. 1 doz. in box. Doz. $2.25

1H3533—6½ in. bowl, 9 in. arm, cast iron, gold bronze finish, swinging socket. 1 doz. in box. Temp. Out

"W. B. W." BASTING SPOONS

Made for us by Wallace Brothers, the silverware manufacturers. No other make equals these in weight and finish. Retinned with 100% pure tin. Note the low prices.

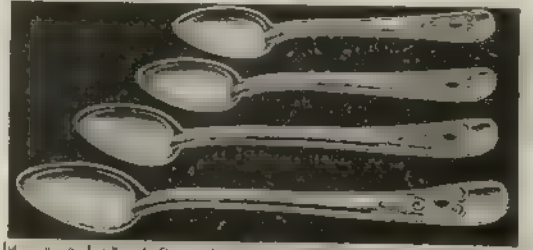


Illustration for [illegible] Model Wallace Brothers [illegible] (Please work on bill)

	3 doz. lots Doz.	Doz.		3 doz. lots Doz.	Doz.
1H2957—10 in.	$0.84	$0.87	1H2947—14 in.	$1.08	1.15
1H2916—12 "	.92	.96	1H2948—16 "	1.25	1.40

"MONEYSWORTH" GUARANTEED WORK SHIRTS

Distributed exclusively by Butler Brothers. A line of work shirts that has built up a reputation because of honest worth. For many years "Moneysworth" shirts have been sought after by cagey buyers because comfort, strength and long wear combined with **our strong guarantee** make this an ideal line for the retailer to handle. Regulation and specialty styles, regular and special sizes. Bodies finished 44, 46 and 48 in. wide (except extra size numbers), proportioned to neck size, 36 in. long, large armholes, full yoke back, faced sleeves, 4 button front, pocket, every seam, including cuffs and sleeve facing, felled and double stitched.

PACKING

Label in Neckband

½ doz. solid sizes in pkg. or 1 doz. assid sizes as follows:

Sizes—	14½	15	15½	16	16½	17
Quantity—	1	2	3	3	2	1

GUARANTEE

We, Butler Brothers, guarantee "Moneysworth" shirts satisfactory to users in material and workmanship and will replace any that may rip or tear within six months from date of purchase. Guarantee slip in pocket of each shirt.

REGULATION MODEL, PLAIN AND FANCY CHAMBRAY

Heavy woven chambray, yarn dyed, guaranteed fast color. Sizes: 14½ to 17. SPECIFY SIZES. Packing: See note above.

8D2927—MED BLUE, regulation, bodies 44, 46 and 48 in. wide 36 in. long. Standard grade heavy woven chambray, yarn dyed guaranteed fast color. Doz. **$16.50**

8D5000—Fancy patterns, stripes and small plaids on BLUE, GRAY and SLATE grounds, regulation, bodies 44, 46 and 48 in. wide, 36 in. long, pointed yoke back, faced sleeves, 4 button front, seams double stitched. . . . . Doz. **$16.50**

8D5003—Solid GUNMETAL, regulation, bodies 44 46 48 in. wide 36 in. long. Standard grade heavy woven chambray, yarn dyed, guaranteed fast color. Doz. **$16.50**

EXTRA SIZE, CHAMBRAY

Sizes 17½ to 19. SPECIFY SIZES. Packing: See note above.

8D5818—MED BLUE extra size, bodies 52 to 56 in. wide, 36 in. long, sleeves 24½ and 25 in., neck sizes 17½ to 19. Doz. **$18.00**

LONG JOHN, CHAMBRAY

Sizes 14½ to 17. SPECIFY SIZES. Packing: See note above.

8D5929—MED. BLUE, Long John, slim sizes, length 39 in., sleeves 25, 26 and 27 in. Doz. **$18.00**

FINE YARN CHAMBRAY

Sizes 14½ to 17. SPECIFY SIZES. Packing: See note above.

8D5930—MED. BLUE, regulation, fine yarn chambray, bodies 44, 46 and 48 in. wide 36 in. long pointed yoke back, faced sleeves, 4 button front, seams double stitched. Doz. **$17.50**

CHAMBRAY—Specialty Styles

Heavy woven chambray, yarn dyed, guaranteed fast color. Sizes 14½ to 17. SPECIFY SIZES. Packing: See note above.

Coat Style—5 button front, bodies 44 46 and 48 in. wide, 36 in. long
8D5005—MED. BLUE .....Doz. **$17.50**

Automobile Front—Shaped front with 2 set-in pockets.
8D5945—MED BLUE. ..... .Doz. **$19.00**

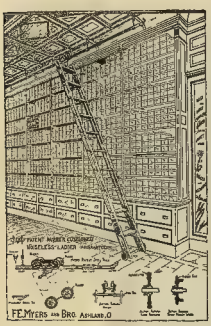
REGULATION, BLACK DRILL

Standard 3 yd. wt., fast color. Sizes: 14½ to 17. SPECIFY SIZES. Packing: See note above.

8D6281—Fancy black, graduated white pin stripes regulation, bodies 44, 46 and 48 in. wide, 36 in. long 11 in armholes Doz **$18.00**

STORE LADDERS

MYERS CUSHION TIRE. NOISELESS



Ladder and Trolley, Complete (Any Length Ladder).

Each $27.06

Track, with Hangers, Complete .. . .Per Foot. .40

Double-angle steel track; varnished Georgia pine ladder. 12 in. wide; open panel sides, 5 in. wide; 5-in steps; malleable iron trolley, self-adjusting; 3-in. anti-rattler wheels, rubber tires; floor travelers, 5 in. diameter, with rubber cushion tires.

Measurement Blanks furnished and prices quoted on application

In ordering, give the exact height of the ceiling and length of each track. If the height of the ceiling varies, give the height of ceiling at each end and center of each run of track. To ascertain the length of the ladder required, subtract from height of the room 11 inches and multiply the remainder by one and one-tenth.

BICYCLE

Bent, for Floor. Equipped With Iron Wheels

Made of oak or yellow pine, natural finish, with japanned or nickel-plated mountings. Noiseless steel track on floor supports the entire weight of ladder and operator, relieving all liability of ladder falling Turned pole at top guides the upper end of ladder in moving it. Top of ladder has two hooks which fit over the pole, preventing it from tipping backward. Fitted with extra-wide top shelf for convenience in handling stock.

All Length Ladders Same Price

No. 1-PJ—Yellow Pine, Japanned Trim.....Each, $13.00
No. 1-PNP—Yellow Pine, Nickel-Plated Trim.... " 15.00
No. 10-J—Oak, Japanned Trim..... " 14.00
No. 10-NP—Oak, Nickel-Plated Trim ..... " 16.00
Track Japanned Trim, Noiseless.. .....Per Foot, .25
Track—Nickel Plated, Noiseless..... " " .30

Track quoted includes rail for bottom of ladder and guide pole for top complete with all necessary brackets, screws and pole ends.

Store Ladders F. O. B. factory only. Rules for measurements sent on application.

STEP LADDERS

KEYSTONE UTILITY STOOLS

No. 10—Made of first quality material, varnished, well braced and substantial. Top of hardwood. Will fold up into small space. Height from floor, 24 in.....Per dozen, $24.80

FOLDING GIANT JR.

No. 102—Height, 24 in. Width, 15 in. Top, 7½x12½ in. Weight per dozen, 60 lbs... .. .. .Per dozen, $18.00

Made of selected basswood, very rigid, and will hold any human weight in safety. The usefulness of this ladder is apparent in every home and its folding features make it occupy only a small space when not in use.

STORE LADDERS

MYERS

Clear Georgia pine ladder. Varnished. Open panel sides, 5 inches wide. Malleable iron dowel tees support each step on both ends. Fixtures malleable iron. Self-adjusting trolley with 3-inch anti-rattler wheel with cushion rubber tires and turned steel bearings. Double angle steel track suspended from ceiling by lag screws. Complete with clamp, bracket and end stops.

The floor wheel or travelers are 5 inches in diameter, composed of metal sides with cushion rubber tires, clamped in such a position that they cannot become loose. They run on a steel axle without friction or noise.

***Myers Ladder Complete**—Width of ladder, 12 inches. Width of steps 5 inches. Average weight each, 50 lbs..... **Each $27.00**

***Myers Steel Trolley Track** Complete with hangers. Average weight per foot, 2 lbs. ..... **Per foot $0.40**

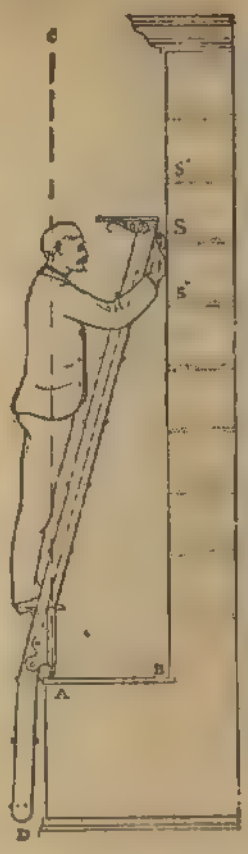
***Rubber Tires for Track and Floor Wheels**—Average weight each, ¾ lbs ..... **Each $0 65**

Directions for Ordering Myers Store Ladders.

Give exact height to ceiling and length of each track. If height of ceiling varies give height of ceiling at each end and center of each run of track.

***For shipment from factory only.**

*IOWA



No. 5

Bent or Straight for Base Shelf.

Made from selected hardwood, bent or straight, with nickel plated or japanned mountings. Smooth steel track. Accurately turned and deeply grooved wheels. Roller fenders at base shelf are heavily rubber clad and mounted with adjustable bearings, making the operation of ladder smooth and noiseless. Provided with two wide shelves at top of ladder.

No. 5—Shipping weight each, 40 lbs.....**Each $20 00**

Track for Iowa with japanned mountings. Weight per foot, 1 lb.....**Per foot .25**

Track for Iowa with nickel plated mountings. Weight per foot, 1 lb.....**Per foot .40**

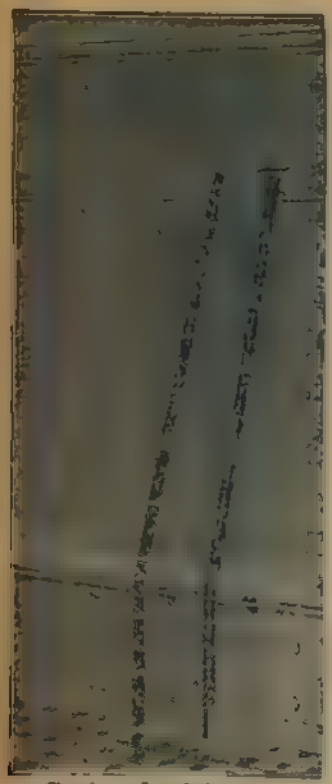
***For shipment from factory only.**

HOW TO ORDER BICYCLE OR IOWA LADDERS

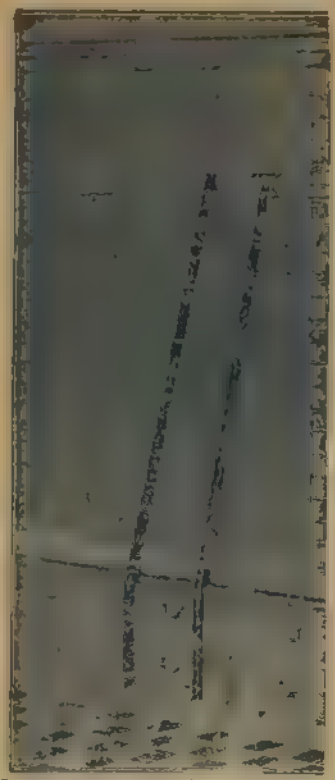
Refer to cut on this page and give the following measurements: D to C; D to A; A to B; B to S; B to S feet and B to S inches. State length of track wanted and the number of angles of all kinds in the shelving and say what they are, whether solid uprights, partition boards, turned spindles or whether iron brackets are used to support the shelving. Be sure and send both a front view and the end view diagram of your shelving and tell us all you can about it. The more we know of your shelving the better we can serve you.

*** For shipment from factory only**

*BICYCLE STORE LADDERS



Bent or Straight for Floor



Bent or Straight for Base Shelf

Bicycle Ladders also made to turn corners, either on base shelf or floor.

Made of oak or yellow pine. Natural finish, with japanned or nickel plated mountings. Noiseless steel track on either base shelf or floor; supports the entire weight of ladder and operator, relieving all liability of ladder falling or shelves sagging. Turned pole at top guides the upper end of ladder in moving it. Top of ladder has two hooks which fit over pole, preventing it from tipping backward. Fitted with extra wide top shelf for convenience in handling stock.

No. 1—Oak. Bent or straight. Base shelf or floor. Shipping weight each, 40 lbs. ..... Each $20.00
Yellow Pine. Bent or straight. Base shelf or floor. Shipping weight each, 35 lbs. ..... Each 18.00
Ladders over 12 feet in length ..... Extra 2.00
Ladders for sloping floor ..... " 2.00

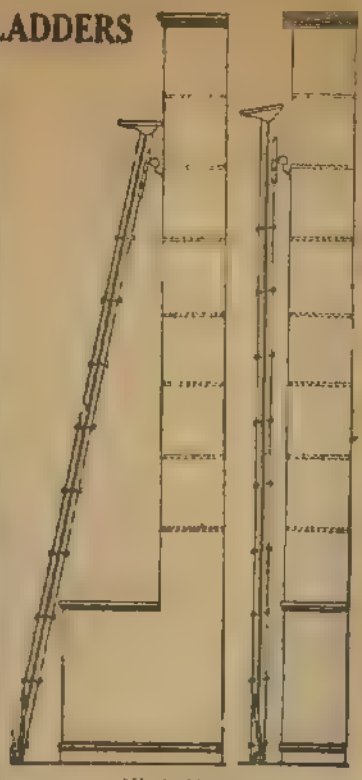
No. 2—Oak. Base shelf or floor ladders to turn corners. One section of bent pole is included. Shipping weight each, 40 lbs. ..... Each 24.00
Yellow Pine. Base shelf or floor ladders to turn corners. One section of bent pole is included. Shipping weight each, 35 lbs. ..... Each 22.00
Additional bent poles ..... " 1.00

*TRACK FOR BICYCLE LADDER. BASE SHELF OR FLOOR

Bronzed steel rail and special pole with black japanned brackets. Weight per foot, ½ lb. ..... Per foot $0.50
Bronzed steel rail and special pole, with nickel plated brackets. Weight per foot, ½ lb. ..... Per foot .60
Nickel plated rail and special pole with black japanned brackets. Weight per foot, ½ lb. ..... Per foot .60
Nickel plated rail and special pole with nickel plated brackets. Weight per foot, ½ lb. ..... Per foot .75

Track prices quoted include rail for bottom and guide pole for top, complete with all necessary brackets, screws, pole ends, etc., finished ready to put up with a screw driver.

*For shipment from factory only.



No. 7 Auto
Straight. For Floor.

No. 9 Chicago
Straight. Trolley Type

*AUTO

This ladder used where it is not desirable to have track on the floor. It is guided by upper guide alone. The hooks are arranged to slide in a slot so as to adjust themselves automatically to the position of the pole, permitting the bottom of the ladder to be pulled out from the shelving for easy climbing, or to be pushed up close to be out of the way. Adapted for short runs and cramped places where room is limited. Made from selected hardwood. Nickel plated or japanned finished mountings, provided with smooth treads to run on bare floor.

No. 7—Shipping weight each, 40 lbs. ..... Each $20.00
*Guide track or pole for Auto Ladder. Japanned mountings. Weight per foot, 1½ lbs. ..... Per foot .50
Guide track or pole for Auto Ladder. Nickel plated mountings. Weight per foot, 1½ lbs. ..... Per foot .60

*CHICAGO

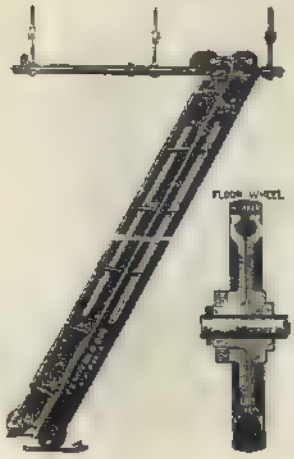
Made of yellow Georgia pine with plain sides, or natural finish oak with ornamental open work sides. Japanned mountings. Consists of two wheels each at top and bottom. Track is open, permitting the use of large wheels. A special device prevents tipping of ladder, and it cannot possibly get off track.

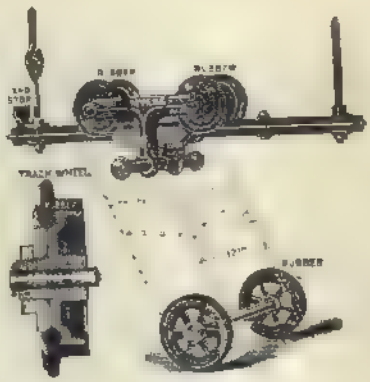
When so ordered the Chicago Ladders are made to turn corners or follow any crooked or curved track.

No. 9—Yellow Georgia Pine with plain sides. Shipping weight each, 50 lbs. ..... Each $20.00
Natural Oak Finish with ornamental open work sides. Shipping weight each, 50 lbs. ..... Each 24.00
For ceilings over 15 feet high, add to above prices. Extra 2.00
Double Steel Track for Chicago Ladders, with wood center, complete with hangers, screws, etc. Weight per foot, 1 lb. ..... Per foot .50
Wood ceiling strips ..... " .10
Curves for track ..... Extra 2.00

To order the Chicago Ladders, give the height of ceiling, length of each track and number of ladders wanted for each run. State whether ceiling is plastered, wooden ceiling or open joists. Ceiling strips will only be sent when expressly ordered. Any suitable strip of wood, five inches wide, will answer the purpose, and can usually be supplied by the customer and saves the freight.

MYERS' STORE LADDERS





CUSHION TIRES

Self-adjusting, Malleable Iron Trolley. Clear Georgia Pine Ladder, Nicely Varnished. Rubber Tired Trolley Wheels and Floor Travelers.

Track is Double Angle Steel Rail. Very Strong. Suspended from Ceiling by Means of Lag Screws and Hanged Plates and Wood Screws. By This Means Track is Placed Close to Ceiling, and can be Leveled on Uneven Ceiling Without Blocking or Bridging. **Trolley** Fitted with Turned Steel Bearings and 3-in Anti-rattler Wheels. **Ladder** has Open Panel Sides 5 Ins Wide with 5-in Steps. Each Step Supported at Each End with Special Malleable Dowel Tee. Width of Ladder, 12 Ins. **Floor Travelers** 5 Ins in Diameter. Wheels Placed on Steel Axle, which Revolves with One of Wheels. Other Running Loose In This Manner Ladder will Adjust Itself to Floor. **Is Noiseless.**

Give Entire Length of Track Required, and Height of Ceiling from Floor

F. O. B. Ashland, Ohio

	Each	Per Foot
No. 2000—Ladder and Trolley Complete, without Track...	$30.00	$ .45
No. MT30—Track Complete, with Hangers	**$48.50**	**$ .80**

Crated

*Not Carried in Stock. **Can Only be Furnished by Shipping Direct from Factory**

If It's Automobile Accessories

We Have It

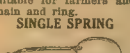
Large Line shown in our 350 Page Automobile Accessory Catalog

GAME TRAPS

VICTOR

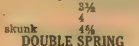
Similar in pattern to the genuine Newhouse, though lighter in construction. Suitable for farmers and trappers of small game. Steel wire chain and ring.

SINGLE SPRING



Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
V0	Rat	3½	5	$ 4.25
V1	Muskrat	4	7½	5.00
V1½	Mink or skunk	4½	11¼	7.50

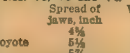
DOUBLE SPRING



Nos. V2, V3 and V4.

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
V2	Fox	4½	14½	$10.50
V3	Otter or coyote	5½	23¼	14.00
V4	Beaver	5⅞	25	16.50

Nos. V0 to V1½, one dozen in box; balance loose.

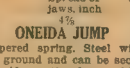


Victor Giant is similar in pattern to Victor, except the Giant jaws catch far up on the animal's leg, the lightning-action spring rising high on the jaws. The pan and dog are wider and heavier, the chain larger and the spring faster.

No.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
VG1	Muskrat	4⅞	8¾	$ 6.50

ONEIDA JUMP

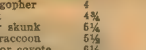
Sheet steel. Tempered spring. Steel wire chain and ring. Traps lie flat on the ground and can be secreted in runways of animals. Jaws have wide meeting faces, which prevent breaking animal's leg. Construction of springs causes trap to jump up and take a high grip on the animal's leg, instead of the foot.



Nos.	Kind	Spread of jaws, inch	Weight per doz. lbs	Per doz
J0	Rat or gopher	4	6½	$ 4.25
J1	Muskrat	4¾	8	5 00
J1½	Mink or skunk	5¼	9½	7 50
J2	Fox or raccoon	5½	14¼	10.50
J3	Badger or coyote	6½	22	14.00
J4	Otter or coyote	7¾	27¾	16.50

Nos. J0 to J1½, one dozen in box, balance, loose.

TRAP CLAMPS



Malleable iron. For setting large traps. By placing one on each spring large traps are easily and quickly set with a few turns of the thumb screw.

Nos.	N4	N5	N6
Size of opening, inch	2¼	4⅝	5⅝
Weight per dozen, lbs	2¾	9½	23½
Per dozen	$4.00	10.00	15.00

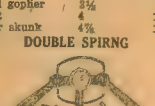
NEWHOUSE

Highest grade. Best crucible steel springs. Stock is a mixture of special Norway iron. Chain flat cut steel, smooth and flexible. Fully guaranteed. Used by professional trappers for catching all fur-bearing animals.

SINGLE SPRING

Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
N0	Rat and gopher	3½	7½	$ 6.00
N1	Muskrat	4	10	7.50
N1½	Mink or skunk	4⅝	14½	10.00

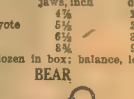
DOUBLE SPIRNG



Nos.	Kind	Spread of jaws, inch	Weight per doz, lbs	Per doz
N2	Fox	4⅞	18	15.00
N3	Otter or coyote	6½	23½	20.00
N4	Beaver	6½	33¾	25 00
N4½	Wolf	8¾	92	60.00

N1, one dozen in box; balance, loose.

BEAR



Double spring, with toothed jaws and heavy chain.

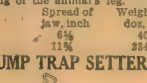
Nos	Kind	Spread of jaws, inch	Weight per doz. lbs	Per doz
N5	Common black bear	11¾	234	$190.00
N6	Grizzly bear	16	522	425.00

DEER OR BEAR, WITH OFFSET TOOTHED JAW

Heavy double spring. ¾-inch offset jaw allows spring to rise, and prevents severing of the animal's leg.

Nos.	Kind	Spread of jaw, inch	Weight per doz, lbs	Per dozen
14	Deer	6½	40	$ 30 00
15	Bear	11¾	234	190.00

JUMP TRAP SETTER



Quickly and easily applied. With one turn of the wrist the spring is brought down, the jaws opened and the trap set.

Size, inch	9
Weight per dozen, lbs	4
Per dozen	$3.00

BELLS

LOCOMOTIVE

Polished cast bell metal gong, cast brass hammer bar. Double brass wire coil springs. Japanned cast iron base, operated by wire bell pull, attached to lever; 8-inch and smaller have metal knocker, 10 to 16-inch, lignaumvitae.

Diameter, inch	4	5	6	7	8
Weight each, lbs	1½	2¼	2⅞	4½	6
Each	$2.50	4.00	5.00	7.00	9.50
Diameter, inch	10	12	14	15	16
Weight each, lbs	10	16	26	28	35
Each	$17.00	29.00	43.00	46.00	50.00

TRIP GONGS

Polished nickel plated steel. Cast brass trip lever and hammer. Coppered wire coil springs. Japanned cast iron base and belt post.

No. 60—				
Diameter, inch	5	6		
Weight each, lbs	2¾	3¼		
Each	$2.50	3.00		
Diameter, inch	8	10		
Weight each, lbs	6	9		
Each	$5.00	7.50		

SHEEP

Cast bell metal. Cast iron clapper. Black strap ⅝-inch wide, 20 inches long, fastened by cotter pin. Covered with leather chafe, which prevents wearing the wool from the neck.

Nos.	1	2	3	4
Mouth, inch	1⅜x1⅞	1⅝x2⅛	1¾x2⅛	1⅞x2¼
Height, inch	1⅝	1⅞	2⅛	2⅜
Weight dozen, lbs	3½	4	5	5¾
Per dozen	$8.00	9.00	10.00	12.50

One dozen in bundle.

SHEEP BELL STRAPS

Russet leather. Tinned buckle, riveted on.

Size, inch	¾x24
Weight per dozen, lbs	3
Per dozen	$5.50

SWISS

Pure bell metal. Loop and tongue cast into bell. Polished rim.

Nos.	2	3
Diameter, inch	3	3½
Wt per dozen, lbs	6¾	9
Per dozen	$13.50	17.50

Nos.	4	5	6
Dia., inch	5	5	5
Wt doz, lbs	12	18	22½
Per dozen	$20.00	35.00	60.00

KENTUCKY COW

Bronzed steel. Riveted joint. Loop riveted through top. Wire hanger with cast iron clapper.

Nos.	0	1	2	3
Mouth, in.	3⅜x3½	3¼x4¾	3x4¼	2¾x4
Height, in.	7¼	6¼	5½	4¾
Wght dz, lbs	30	24	20	12
Per dozen	$19.00	15.50	12.50	9.50

Nos.	4	5	6	7
Mouth, inch	2¾x3½	2¼x3¼	2x2½	2x2⅜
Height, inch	4⅛	3½	2⅞	2¼
Weight per dozen, lbs	10	6	5	4½
Per dozen	$8.00	6.50	5.00	4.00

LONG DISTANCE COW

Made from one piece of metal. Rectangular pattern. Superior to old style cow bell.

Nos.	10	11
Height, inch	2⅝	3⅜
Mouth, inch	3x2¼	3½x2⅝
Weight dozen, lbs	5	6½
Per dozen	$4.50	5.00

Nos.	12	013	014
Height, inch	3½	4	4½
Mouth, inch	4x3	4x3⅜	5x3¾
Weight dozen, lbs	6	10	14
Per dozen	$6 00	7.50	9 00

COW BELL STRAPS

Russet leather buckle stitched on. Sliding guard to prevent loop of bell wearing the neck.

Width, inch	1¼	1¼	1¼	1¾	2
Asstd lengths, in.	38 to 44	38 to 44	38 to 44	38 to 44	38 to 44
Wt per doz, lbs	4½	5	6	8	10
Per dozen	$7.00	7.50	9 00	12.00	14.00

One dozen in a bundle.

BICYCLE BELLS

NEW DEPARTURE

New Departure Bells are High Grade, Representing the Best Materials, Workmanship and Finish Obtainable. The Special Bell Metal Used Gives a Tone that is Particularly Powerful, Penetrating and Pleasing

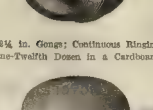
Per Dozen

Leader Scorcher—2¼ in. Gong; Continuous Ringing Chime.$7.60

Per Dozen

No. 332½B—2¾ in. Gong; Rotary Electric Alarm.....$4.80

One-Twelfth Dozen in a Cardboard Box; One Dozen in a Carton; Weight per Dozen, About 6 Lbs.



Per Dozen

No. 433—2¼ in. Gong; a Touch of the Button releases Double Hammers that Ring Continuously so long as the Button is Pressed.....$5.70

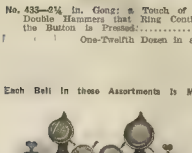
Per Dozen

Leader Plain—2¼ in. Gong; Rotary Electric Alarm.....$1.60

One-Twelfth Dozen in a Cardboard Box; One Dozen in a Carton; Weight per Dozen, About 6 Lbs.

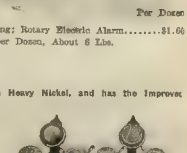
BICYCLE BELL ASSORTMENTS

Each Bell in these Assortments is Made of High Grade Metal, Handsomely Finished in Heavy Nickel, and has the Improved Operating Mechanism



THIS HANDSOME STAND FREE WITH FOUR DOZEN BELLS

This Stand is Finished in Ebony Black Enamel, with Brilliantly Colored Center Piece and Rubber Feet. Stands 16 inches High, and Shows Bells in Position for Ringing. This Stand given Free with Four Dozen Bells—Either Assortment.



TWELVE BELLS, TEN DESIGNS

Per Assortment

Chime—Consists of **Twelve Bells** of the Following Designs: 1 Leader Scorcher, 2½ in. Gong; 1 Leader Chime, 2¼ in. Gong; 1 No. 35C Chime, 2¾ in. Gong; 3 Leader Plain, 2¼ in. Gong; 1 No. 312B, 2¾ in. Gong; One No. 413AF, 2¼ in. Gong; 1 No. 312AF, 2⅝ in. Gong; 1 No. 332½B, 2¼ in. Gong; 1 Leader Fancy, 2¼ in. Gong; and 1 No. 9 Double Stroke, 3 in. Gong.....$7.20

TWELVE BELLS, EIGHT DESIGNS

Per Assortment

Zoo—Consists of **Twelve Bells** of the Following Design: 1 Serpent Design, 2⅝ in. Gong; 3 No. 313 American Flag, 2⅝ in. Gong; 1 Turtle Design, 2⅝ in. Gong; 2 Fleur-de-lis, 2⅝ in. Gong; Two No. 333 B, 2⅝ in. Gong; One Fox Design, 2⅝ in. Gong; 1 Jewel Design, 2⅝ in. Gong; and 1 Cherub Design, 2⅝ in. Gong.....$4.80

Packed One Dozen Bells in a Cardboard Container; Average Weight per Dozen, About 4½ Lbs.

BICYCLE LAMPS

20TH CENTURY
For Oil Each

No. 1—Brass and Sheet Steel, Full Nickel Plated; 5½ in. High; 2¾ in. Lens, with Spring Lens Catch, Colored Side Lights; Aluminum Reflector; Special Locking Device Prevents Wick from Jarring Down; Burns Kerosene; Capacity ½ Pint; Ball Handle; Combination Head and Fork Brackets; Burns 12 Hours.$2.00
Weight, 13 Oz. Each

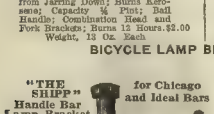
20TH CENTURY
Acetylene Gas Each

No. 2—Brass and Sheet Steel, Full Nickel Plated; 7 in. High; 2¾ in. Lens, with Spring Lens Catch; Large Jewel Side Lights; Lava Tip; Flat Flame; Capacity ½ Pint and 3 Oz. Carbide; Light about 7½ Candle Power; Will Burn from 4 to 6 Hours.$3.00
Weight, 22 Oz. Each

SOLAR
Acetylene Gas Each

No. 3—Special Heavy Gauge Brass, Nickel Plated and Polished; 7 in. High, 2¾ in. Double Convex Lens, with Snap Lens Catch; Large Jewel Side Lights; Lava Tip; Flat Flame; Capacity ¼ Pint of Water and 3 Oz. of Carbide; Burns Six Hours.....$3.50

BICYCLE LAMP BRACKETS



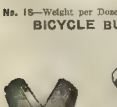
SHIPP
For Chicago and Ideal Bars
Heavy Drop Forging, Highly Nickel Plated and Polished; Made to fit on the Handle Bar.
Length over-all 3¾ in.; Fitted with Bolt that passes through Band on Bars and displaces Bolt that is furnished with Handle Bar.
Per Dozen
No. 18—Weight per Dozen 2½ Lbs.$6.00

NELSON
For Forward Extension Bars, Will fit on Any Gas Lamp that Uses a Combination Bracket.
Made from Heavy Steel, Nickel Plated; Length over-all 5 in.; Forward Extension 4½ in.; Will fit any size Bicycle Head.
Per Dozen
Nelson—Weight per dozen about 3 Lbs. $4.00

BICYCLE LAMP HANDLES

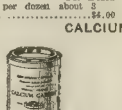
SOLAR
Will attach to any Acetylene Bicycle Lamp, having a Solar style Bracket; In this way a Bicycle Lamp may be easily converted into a Hand Lamp suitable for many purposes.
Each
No. 5—Cast Brass Frame, Nickel Plated and Polished; Black Rubber Composition Handle....$1.25
Weight About 6 Ounces

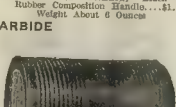
BICYCLE BURNERS



For Acetylene Gas Lamps
These Parts Burn Out in a Short While; Some Customers do Think their Lamp is Defective, when in Reality their Lamp Tip is Clogged up; it is well to carry a stock of them. Per Dozen
No. S100—Lava Tips Only for Solar.... Acetylene Gas Lamps.....$3.00
No. 61—Lava Tip with Metal Cap for 20th Century Acetylene Gas Lamps $3.00
Average Weight per Dozen 1 ounce

CALCIUM CARBIDE





For Searchlights, Bicycle and Automobile Lamps
Cans and Drums are Sealed with Air Tight Metal Covers and Given a Coating of Paraffine. Preventing any Deterioration by Exposure to Air.

2 LB. CANS
Case Contains Two Dozen Cans
Per Can
No. 1—½ in. Size, per Can.....$0.30
No. 1—½ in. Size, per Case..... 7.20

10LB. CANS
Case Contains Half Dozen Cans
Per Can
No. 2—½ in. Size.....$1.00
No. 3—1 in. Size..... 1.00
Case Lots, per Case..... 6.00

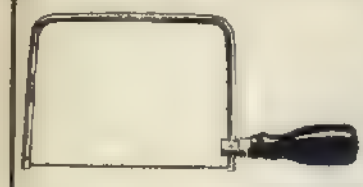
STEEL DRUMS
Containing 100 Lbs.
Per Drum
No. 4—Quarter, Size ¾x2/12 in...$4.50
No. 5—Nut, Size 1¼x ⅝ in... 4.50
No. 6—Egg, Size 2 x ⅝ in... 4.50
No. 7—Lump, Size 3½x 2 in... 4.50
Ton Lots, per Ton.....$75.00

SAWS

COPING

WIRE FRAME

Blade, 6 Inches Long Highly Polished, Nickel-plated Round Spring Steel Frame. Depth of Cut, 4 Inches Length of Handle, 4 Inches. Complete with 12 Blades for Each Saw Weight, Per Dozen, About 4 Lbs



Black, Hardwood Handle

Per Dozen

No. J110... $4.55

Half dozen in a box.

Round Spring Steel Handle

Per Dozen

No. J100. $5.05

Extra Blades

Length, 6 Inches. Blued Steel Weight, Per Gross, About 6 Ozs

Per Gross

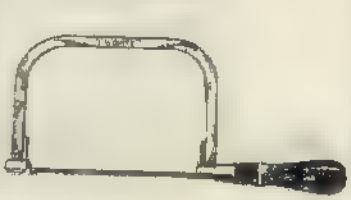
No. J100B—For No. J100 . . . . . $2.95

No. J110B—For No. J110B 2.95

One gross in a bundle.

WIRE FRAME. WOOD HANDLE

Blades 6¼ Inches Long Nickel-plated ¾-inch Flat Crucible Steel Frame. Depth of Cut, 4¼ Inches. Hardwood Spun Finish Handle Lever Adjustment For Direction of Cut Complete, with One Blade. Weight, Per Dozen, About 9 Lbs. Per Dozen



No. D10... $16.00

Two in a cardboard box

Extra Blades

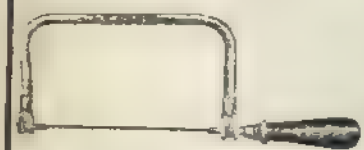
Bright Steel. Fitted with Pins Per Dozen

No. D10B For D 10 Saw . . . . . $ .90

One gross in a cardboard box. Wt., per gross, about 6 ozs.

JONES' PATENT

Blades, 8 Inches Long. 8-inch Nickel-plated Frame. Depth of Cut 4 Inches. Polished Maplewood Handle, 4 Inches Long. Complete with Six Blades.



Constructed with a Tubular Back, Through which Runs a Cable Connecting Both Ends of Frame, Causing Blade to Turn to Any Angle by Turning Handle Only, Without Removing it from Work Hollow Steel Frame Weight, Per Dozen, About 6 Lbs. Per Dozen

No. 12 -Cable $24.00

The Blade Can be Quickly Set at Any Angle by Means of Handle and Button at the Opposite End of Saw Frame Round Steel Frame. Weight, Per Dozen, About 5 Lbs.

Per Dozen

No. 14—Ratchet $20.40

Two in a cardboard box

Extra Blades

Length, 6 Inches. Blued Steel. Weight, Per Gross About 6 Ozs

Per Gross

No. 12B—For No. 12 Saw. . $4.40

No. 14B—For No. 14 Saw . . 4.40

One gross in a bundle.

COPING

Blade 6 Inches Long, Nickel Plated Round Steel Frame Depth of Cut 4 Inches Black Rubberoid Finished Hardwood Handle 4 Inches Long. Adjustable Handle can be Detached Complete, with One Coarse or Cut Tooth Blade.

Per Dozen

No. J210—Weight Per Dozen, About 4 Lbs. $6.30

Half dozen in a box.

Extra Blades

Bright Steel Tempered Set and Sharpened for No. J210 Saw.

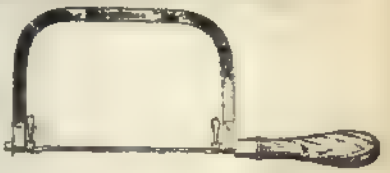
Per Dozen

No. J210B —Coarse, 6 Inches Long . . . . . $ .95

No. J210½B—Coarse, 6½ Inches Long 95

Half gross in a box. Weight, per gross, about 12 ozs.

Nickel Plated and Buffed Heavy Steel Frame Rubberoid Finish, Hardwood Handle Heavy Cast Ferrule Threaded on Inside. Two Adjusting Levers. Blade, 6½ Ins. Will Cut Wood or Metal.



Per Dozen

No. 9 Complete with Two Blades $16.80

Half dozen in a box

BRACKET OR SCROLL

Heavy Braced, Japanned Cast Iron Frame, Drive Wheel and Treadle.

Nos. 1 and 2

NEW ROGERS

17½-inch Hardwood Rocking Arms 12-inch Drive Wheel. Steel Shaft with 8-inch Balance Wheel. 12-inch Belt Wheel and Wing Screw to Hold Drill Points. Automatic Dust Blower. Round Leather Belt. Ht., 35 Ins. Base, 26 x 16 Ins. Complete, with 12 Saw Blades, One Wrench, Three Drill Points, One Each, ⅛, ¼, and ⅜-in., One Awl Impression Paper and Set of Full Size Designs Wt., 45 Lbs.

Japanned Tilting Table, Iron Balance Wheel. Each

No. 1 . . . . . $15.85

Nickeled Tilting Table, Emery Balance Wheel.

No. 2 . . . . . $17.35

STAR

Heavy Drive Wheel, Having Two Balance Wheels, One Iron and One Emery and a Chuck for Holding Drill Points. Emery Wheel is Fastened by Adjustable Clamps, which can Also be Used for Holding Other Sizes of Emery Wheels, Grindstones, Buffing Wheels, Etc. 7-in. Iron Tilting Table. 18-in. Hardwood Arms. 15-in. Drive Wheel Steel Shaft, with 5-in Balance Wheel. Round Leather Belt. Height 37 Ins. Base, 26 x 16 Ins. Complete, with Saw Blades, Etc. Wt., 30 Lbs.

No. 03

No. 03 -One in a crate $27.40

AUTOMOBILE LAMPS

ELECTRIC TAIL LAMPS

Complete with Bulb

Drawn from One Piece Heavy Gauge Steel, without Seams or Open Joint that will Jar Loose; Dead Ivory Finish with Nickeled Trimmings; Can be Fastened to Any Round or Flat Bracket; Fitted with Edswan Switch Socket, Integral with Screw, allowing of easy removal for changing bulb. Each

No. 32—Convex Ruby Semaphore Glass, 3¾ in. in Diameter; White Glass Window at Side to throw light on License Number. Weight Each about ¾ Lb. $1.75

One in a Cardboard Box

ELECTRIC TAIL LAMP WITH LICENSE BRACKET

A Lamp with Bracket Taking Flat or Round Props, and with License Holder Attached Firmly to Body of Lamp.

The Deep Red Lens, 3 inches in Diameter, assures adequate light. Lens is securely held in Place by Wire Ring, which can be Removed with the Fingers when a Change of Bulb is Necessary.

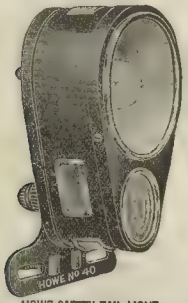
Bulb is 2 C. P., 6-8 Volt, unless otherwise specified, and is held securely in socket. Plug is of plunger type.

Enamel used is of highest quality.

Each

No. 32L—Black Finish; Outside Diameter, 3¼ in. $1.50

One in a Carton; Weight Each about 1¼ Lbs.



HOWE SAFETY TAIL LIGHT

A Combination Tail Lamp and Rear End Searchlight all in one. It replaces the regular Tail Lamp on the Auto. The small red light in the Howe Safety Tail Lamp is operated in the usual way; the large white light or Searchlight is controlled from a separate switch, located anywhere to suit the convenience of the driver. When the driver desires to back up at night, he presses the switch-button and the rear end Searchlight is in operation—he can see anything within fifty feet of the car, press this switch again when you are ready to drive ahead and the Searchlight is off.

Anyone can put on the Howe Safety Tail Lamp as it simply takes the place of the Tail Lamp already on your car.

The Howe Safety Tail Lamp is made of sheet metal and is handsomely finished in baked on black enamel. It comes complete with bulbs, bracket, connectors, etc., and is packed in an individual carton complete with instructions and wiring diagrams. Each

No. 40—Howe Safety Tail Light $4 50

One in a Carton; Weight about 2½ Lbs.

Notice—When Ordering, please specify whether you desire Single or Double Contact.

TAIL LAMPS FOR TRUCKS

Burns Oil

A Lamp so Perfect in Design that it Stays Lighted Under Adverse Conditions even though not lined.

Height is 8¾ in.; Distance from Front to Rear, 5 in.

Oil Pots are Positively Locked and Cannot Rattle or be Lost.

Per Pair

No. 24F—With 3 in. White Semaphore Lens $5 00

One Pair in a Carton; Weight per pair about 7½ Lbs.

SPOTLIGHTS

AUTOREELITE

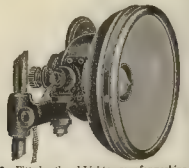
Spot-Light; Trouble-Light; Portable-Light; 7 in. Diameter; 32 C. P.; Attaches to Windshield

Construction—Lamp and Bracket in beautiful black enamel, nickel trim, fitted with a convex lens, backed by a nitrogen (Mazda C) lamp in a silvered parabolic reflector of carefully determined contour to increase and direct the light rays. Switch conveniently located at the back of the lamp. A 3½-inch rear-view mirror giving complete view of the road behind is standard feature if desired. Length of cord on extension reel for use as portable 13 feet. Length of cord for battery connection, 5 feet. Focus of lamp quickly adjusted and set.

Clamps: Three pairs of windshield clamps—round, oval and rectangular—included with each lamp; throw away the two not required.

Operation: The adjustable cord reel is located in the ball casing just back of the lamp. To use as a portable, simply unscrew the knurled nut and withdraw the lamp to the desired length. The cord reel operates like an ordinary curtain roller.

	Each
No. 3140—Without Mirror for Rear View; Weight Each about 4½ Lbs.	$ 9 50
No. 3141—With Mirror for Rear View; Weight Each about 5½ Lbs.	10 00



No. 1616—Fitted with red Light; u rear for parking purposes.

"Red Spot" thrown right or left will give **unmistakable** notice that you are going to turn or cross; thrown behind, that you are going to stop. And, while you are making roadside repairs, the steady "Red Spot" will warn approaching traffic that your car is stationary. Intermittent flashing will attract help, and in an emergency "Red Spot" can be used as a temporary tail light—two searchlights in one for the price of one. In an instant, you can change the white light to an imperative red signal—the universally understood "Halt," that will protect you and your car and help render night driving **Safe**—as well as enjoyable.

"Red Spot" Searchlights are equipped with high candle power 6-8 volt nitrogen lamps. When other voltage lamps are required, be sure to specify the voltage on your order. Searchlights equipped with 18-24 volt nitrogen lamps to operate in conjunction with Ford Magneto are 50 cents list additional.

Made throughout of the finest and most durable materials known to the industry; exclusive in its many refinements.

Even without the red spot feature, the "Red Spot" by the sheer force of its excellence of design, build and appearance would sell itself right off your shelves. Send along your inquiry for terms, and literature, on this mighty interesting, rapid seller.

RED SPOT

The Double-Duty Searchlight—Red for Danger—White for Light

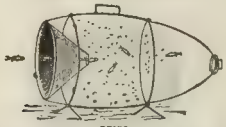
The "Red Spot" Searchlight is exceptionally well built, symmetrical and original in design. The accurate parabolic reflector is made of brass—not steel—heavily silver plated and highly polished. Twin-fitting base and glass lens with rubber gasket make it weather proof, dust proof and rattleless. Universal bracket with lubricated smooth-working rattle-proof joint. Rear view mirror, instantly adjustable, can be used independently of the searchlight. Heavy gauge steel shell, all parts are protected against rust by enamel, **baked on**—not painted, a heavy nickel plate or the Parker rust-proof process.

The bulb is instantly focused by turning a knob on the handle.

The bracket is universal and unusually solid. The lamp comes equipped complete with 6-8 volt 21 C. P. Nitrogen lamp and weather-proof cord with copper terminals.

	Each
No. 1616—Complete with Mirror; 5½ **in. Diameter;** Weight about 2¾ Lbs.	$ 7 50
No. 1622—Complete with Mirror; 7 **in. Diameter;** Weight about 3 Lbs.	10.00

MINNOW TRAPS



ORVIS

A Sure Device for Catching Live Bait; Place a Handful of Cracker Crumbs Inside Trap and Lower in the Water

Made of Heavy Flint Glass, Not Readily Broken

Each

12 in. Long, 24 in. Circumference, Bound with Wire for Legs and Handle; Packed in Hinged Wood Case for Safe Transportation . . . $4 00
Open Stock

MINNOW BUCKETS

SURE CATCH

This Trap is one of the Most Ingenious Devices Ever Invented for Catching Minnows and Crabs, and is Equally Effective for Trapping Fish of Any Kind.

Each

No. SC—Made of Galvanized Screen Wire and Sheet Steel, Size 18x10 in.; Weight 2½ Lbs. $2.00

NOVELTY

A Float Strongly Made of Galvanized Iron and Finished in Green Enamel, with Decorations. It will keep your Minnows Alive the longest of any known device. Its shape allows it to pass through the water easily, admitting plenty of fresh air and protecting the minnows at all times. Has self-locking cover with seamless metal knob and is easily operated with one hand, leaving the other free to take out the minnows.

Each

No. 260—Length 29 in.; Weight 3½ Lbs. $4.00

BAIT BOXES

BASKET

Safety Pin or Loop Attachment

Per Dozen

Basket—9¼ in. Wide at Top; 3⅝ in. Wide at Bottom, 1⅝ in. Thick and 2⅝ in. Deep . . . $3 00
Basket with **Loop Attachment** Sent, Unless Otherwise Specified
Weight per Dozen about 15¼ Lbs.
One Dozen in a Box

CRESCENT

Per Dozen

Crescent—6 in. Long, 2¼ in. Wide, 1¼ in. Deep; Two Loops on Back for Belt. $4.00

Weight per Dozen about 3 Lbs.
One Dozen in a Box

FISH SCALERS

Removes Scales, Fins, Heads and Tail in Less than Half the Time of the Old Way with the Knife

Per Dozen

No. 728—Steel, Nickel Plated, Large Blade, 3½ in. Wide, Small Blade 2 in. Wide. Light Weight. $3 00

Two in a Box; Weight per Dozen about 4 Lbs.

A Simple, Practical Efficient Fish Scraper; Works on same principle as a Curry-Comb. Excellent for Shredding Fish or for Preparing Meat for Hamburger Steak.

Per Dozen

Good Luck—Steel, Black Rubber Enamel Coated; Length 6¾ in., Diameter of Head 1½ in. $2 00

Three Dozen in a Box; Weight per Dozen, 14 Oz.

OVEN GLASS

It is to your advantage to stock "Fry Quality" oven glass. Requires less fuel for cooking food in oven glass than metal utensils. Food may be cooked and served in the same dish. These prices allow you to make liberal profits

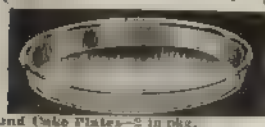
FRY QUALITY OVEN GLASS

Oval Covered Casserole [illegible] Fits all standard [illegible]

[illegible]	diam. 1 qt	Temp. Out
[illegible]	[illegible]	Temp. Out
[illegible]	[illegible]	Temp. Out

Round Pie Plates—2 in pkg.

C5126—8	in diam.	Each, $0.45
[illegible]	[illegible]	.50
[illegible]	[illegible]	Temp. Out



Round Cake Plates—2 in pkg.
C5135—9 in. diam.....Each. Temp. Out

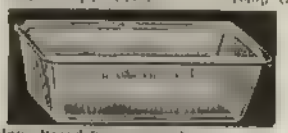
Round Straight Edge Dishes [illegible] pkg. Each

C5[illegible]	[illegible]	Each, $0.45
C5[illegible]	[illegible]	.55

Oval Bakers [illegible] pkg. Each

C5[illegible]	[illegible] in deep	Each $0.30
[illegible]	[illegible]	Temp. Out .60

Round Bakers [illegible] pkg.
[illegible] Temp. Out



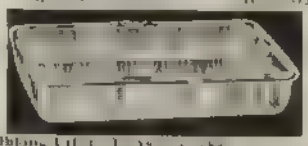
Oblong Bread Pans [illegible] in pkg.
C5[illegible]—9 [illegible] deep, 2¼ in. deep Each $0.75
C5118—8¾x10¾, 3¼ " .90

Round Covered Casseroles [illegible] pkg. Fits [illegible]

C5[illegible]	[illegible]	[illegible]
C5[illegible]—	[illegible]	[illegible]
C5[illegible]	[illegible]	Temp. Out
C5[illegible]	[illegible]	Temp. Out

Round Utility or Baking Dishes [illegible] pkg.

C5[illegible]	[illegible]	Each 40c
[illegible]	[illegible]	Temp. Out
[illegible]	[illegible]	Temp. Out



Oblong Utility Dishes [illegible] pkg.
[illegible] Temp. Out

Ramekins [illegible] pkg.

C5[illegible]	[illegible] diam. 7 oz.	Doz. $1.50
C5[illegible]	[illegible]	1.80

Custard Cups [illegible] doz in pkg.

C5[illegible]	[illegible] in diam., 4½ oz.	Doz. $1.75
[illegible]	8 "	1.85

Round Cord Bean Pots—1 in pkg.
C5[illegible] Temp. Out Each, $1.25

Percolator Tops—½ doz in pkg.
[illegible] Doz. $1.35

Measuring Cups—1 doz in carton
C5[illegible] 8 oz. Pyrex graduated in ounces and fractions Temp. Out

FRUIT JAR AND JELLY TUMBLERS

Our Government's Instructions to the people is to do more home canning of fruits and vegetables and help offset the high cost of living. There will be an enormous demand this season and the wise retailer will buy early while he can get the goods and take advantage of today's prices. NO STORAGE CHARGE.

BALL "MASON" AND "IDEAL" FRUIT JARS

Well known and absolutely reliable. A good selection of styles and sizes to pick from. We bought early and pass the advantage along to you.

Ball "Mason" Made by [illegible] manufacturers which [illegible] the most [illegible] of glass and cap, and also [illegible] [illegible] to [illegible] [illegible] [illegible]

OIL LAMPS AND FOUNTS

Big Sellers Priced Right. Every lamp on this page will stand the test of actual USE. The convenient packing permits you to buy in original packages which saves breakage.

The assortments are made up o. several different patterns. Many extra size lamps are included in the assortments. NO PACKAGE CHARGE.

FLAT FILLER FOUNTS

Fit all standard size iron brackets.

Glass Collar—No. 2, threaded brass lining.

C2964—5 doz. in bbl. (Total) $10.20) Doz. **$2.05**

Handled Brass Collar—No. 2, Plaster set.

C3857—1 doz. in shipping carton. Doz. **$2.90**

NO. 2 GLASS COLLAR REFLECTOR FOUNT

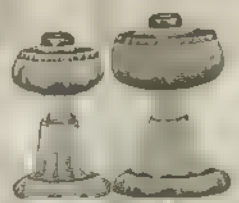
C2863—N[illegible] collar ring threaded and not leak. Collar C3585 and C[illegible] reflector, height [illegible] diameter of base ring 3 in. Packed [illegible] lbs. Total $6.25) Doz **$1.75**

No. 2 PLASTER SET BRASS COLLAR LAMP FOUNT ASSORTMENTS

C2116—3 styles, average ht. 9¼ in. No. 2 plaster set brass collars. ½ doz. each style. Assorted. Packed in bbl. 95 lbs. (Total $7.30) Doz **$3.65**

C2870—3 styles, No. 2 plaster set brass collar, good crystal prism and miter cut bowls and bases. Assorted cut patterns. [illegible] ht. [illegible] in. Assorted 2 doz. in bbl. About 85 lbs. Doz. (Total $[illegible]) **$3.75**

CLINCH COLLAR LAMP ASSORTMENTS



C2704—3 sizes, ht. [illegible] in. No. 2 clinch collar, heavy [illegible] foot, plain clear glass fount, large size. 2 doz. in pkg. Total $7.40) Doz. **$3.70**

C2758—3 styles, No. 2 clinch collar, clear crystal [illegible] pattern fancy foot, asst. consists of 1 doz. each stand lamps, ht. 10 in., C sewing lamps, ht. 8 in. cap. 1½ pts. Assorted 2 doz. in bbl. 90 lbs. (Total $7.00) Doz **$3.50**

C2689—2 styles, No. 2 clinch collar, ave. ht. 10 in., good crystal [illegible] doz. each. Assorted 2 doz. in bbl. 105 lbs. Total $9.38) Doz **$3.75**

C2687—3 styles, No. 2 clinch collar, ht. 9 in., [illegible] plain and colonial designs, clear crystal, extra large foot. Assorted 2 doz. in bbl. 95 lbs. Total $7.70) Doz **$3.85**

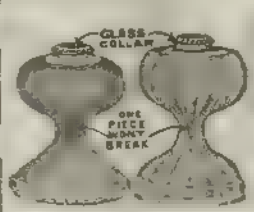
C2748—4 styles, No. 2 clinch collar, clear crystal, plain pattern fancy foot, assortment as follows: 1 doz. A stand lamp, ht. 9 in., cap. 1 pt., ½ doz. B stand lamp, ht. 9 in., cap. 1½ pts., ½ doz. C stand lamp, ht. 10 in., cap. 1½ pts., ½ doz. C sewing lamp, ht. 8 in., cap. 1 pt. Total 3½ doz. in bbl. 125 lbs. Doz. (Total $9.08) **$3.85**

C2882—2 styles, No. 2 clinch collar, ht. 9½ in., cap. 2 pts., clear crystal, plain and colonial designs. 1 doz. each style. Assorted 2 doz. in bbl. 95 lbs. (Total $7.90) Doz. **$3.95**

GLASS COLLAR LAMP ASSORTMENTS

C2868—2 styles, No. 1 glass collar, 1 pc. glass, brass threads will not leak when finished. 2 doz. low foot, hand, ht. 3½ in. 2 " high " " 8½ " 2 " stand, ht. 8 in. Assorted 6 doz. in bbl., 180 lbs. (Total $15.00) Doz. **$2.50**

C2900—6 styles, No. 2 glass collar over ht. 10½ in., plain bowl, flaring stem, plain and optic melon designs. ½ doz. each. Assorted 3 doz. in bbl. 95 lbs. (Total $[illegible]) Doz **$3.25**



C2886—4 styles, No. 2 glass collars, ave. ht. 8½ in., best crystal. 6 of each style. Assorted 2 doz. in bbl. 90 lbs. (Total $8.30) Doz. Temp. Out

C2683—4 sizes, No. 2 glass collars, extra heavy, clear plain crystal, ½ doz. each 8½ and 10½ stand, and 8 and 9½ in. sewing. Assorted 2 doz. in bbl. 164 lbs. (Total [illegible]) Doz. Temp. Out

C2849—2 styles, No. 2 [illegible] collar, ht. 10 in., extra large oil fount, heavy one piece, bright crystal glass, plain collar [illegible] bbl. wt. 115 lbs. Total $7.8[illegible] Doz **$5.90**

GLASS NIGHT LAMPS

Large sizes. Each complete with burner and chimney. In pasteboard boxes.

C3538—3 styles, ht. 8½ in., floral and scroll embossed fountain and chimney hand decorated red flowers and gold stippling, 2 colors, 2 canary 2 lt. blue. Assorted in box. Doz. Temp. Out

C4360—"Daisy" ht. 9 in., clear crystal large bullseye foot and bowl, colonial stem, glass collar. ½ doz. in box. Doz. **$3.45**

C3570—2 styles, ht. 8½ in., floral scroll embossed fount and chimney, canary & gold and green & gold grounds, red flowers, each in box. ½ doz. to pkg. Doz. **$4.60**

"STERLING" NIGHT LAMP

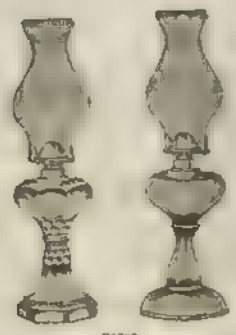
C3578—"Sterling" handled [illegible] with [illegible] Complete with [illegible] in pkg. Doz. **$3.10**

"COMET" WALL NIGHT LAMP

C3586—Dra[illegible] lamp, [illegible] over all 8 in., nickel finish, [illegible] in bracket with [illegible] Each **85c**

COMPLETE STAND LAMPS

The fast selling styles clinch collar founts. All strictly first quality merchandise. Most numbers come assorted giving you big variety. Prices quoted are well under the market. NO PACKAGE CHARGE.



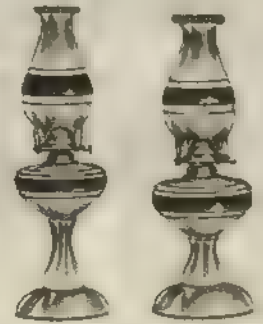
C2719

C2731

C3717

C2746

C2745



C2755

C2719—2 styles, No. 1 clinch collars, ave. ht. 17½ in., [illegible] and colonial embossed chimneys. Assorted [illegible] Packed [illegible] lbs. Doz. $5.00

C2731—2 styles, No. 2 clinch collars, ht. 18 in., cap. 1½ pts., clear crystal, plain and [illegible] cap. 2 pts., with No. 2 burner and globe chimneys. ½ doz. each style. Assorted 1 doz. in bbl. About 105 lbs. Doz. Total $9.37 **$5.25** **$6.95**

C3717—2 styles, No. 1 clinch collars, ht. 14½ in., good clear crystal, plain and [illegible] pattern, embossed chimneys, colored globe with burners. ½ doz. each style. Assorted 1 doz. in bbl. 75 lbs. (Total $8.[illegible]) Doz **$6.85**

C2746—No. 2 clinch collar, ht. 19½ in., cap. 3 pts., clear optic crystal. No. 1 [illegible] chimney. 1 doz. in pkg. 140 lbs. Doz **$9.00**

C2745—Extra large sewing lamp. No. 2 clinch collar, ht. 19 in., cap. 3½ pts., clear crystal lattice ribbed optical design. Complete with burner. 1 doz. in bbl. 90 lbs. Doz **$7.75**

C2755—3 styles, No. 2 clinch collar, ht. 16 to 18 in., gold band fount, base and chimneys complete with burner. Assorted 1 doz. in bbl. 75 lbs. Doz. **$8.95**

WHEEL GOODS

KIDDIE KARS

Made in five different sizes. The seat is made of carefully seasoned selected basswood. The wheels made of crowned rock maple, sanded to a glossy finish.

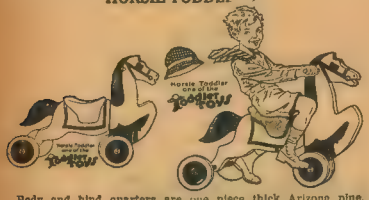
Nos.	1	2	3	4	5
Height to top of seat, inch	7	8½	10	11½	12¾
Length, inch	16	17	18	20	22
Number in a crate, dozen	2	2	2	1	1
Weight per crate, lbs.	100	120	160	110	120
Per dozen	$18.00	27.00	36.00	42.00	48.00

Basswood body, with box 7x12 inches; 4½-inch crowned hard maple wheels. Trailers

Height, inch	10½
Weight per crate, lbs.	110
Per dozen	$18.00

Two dozen in a crate.

HORSIE-TODDLERS



Body and hind quarters are one piece thick Arizona pine. The head and fore legs are of one piece also. The two parts are joined at the shoulder by a swivel bearing that allows the Horsie-Toddler to be steered in any direction. This swivel is oversize and will never wear out. The Horsie-Toddler has four wheels, with metal bushings throughout. The saddle is full shaped and provides an easy and comfortable seat. Life-like decorations in four colors. Finish has appearance of baked enamel. Made in four sizes.

Nos.	2	3	4	5
Age, years	1-1½	1½-3½	3½-5	5-7
Weight each, lbs.	3½	5½	8	8¼
Each	$3.25	3.75	4.25	4.75

Above sold in assortments only containing one No. 2, two No. 3, two No. 4, one No. 5.

Weight, lbs.	59
Per assortment	$27.00

One assortment in paper carton

WAGONS

COASTER

Well seasoned hardwood body. Removable sides. Extra heavy wheels with iron hubs. Steel felloes and tires. Steel roller bearings with hardwood spokes. Front and rear axles strongly braced, made of ½-inch round steel. No. 0A has 6-inch solid iron wheels. One in corrugated paper carton.

Nos.	0A	1A	2A	2¼ A	3A	4A
Size bottom, in	12x28	14x32	14x34	15¼x36	16x38	18x40
Diam wheel, in.	8	8	11	11	11	11
Weight ea. lbs.	15	28	32½	35	40	43
Per dozen	$112.00	132.00	144.00	150.00	160.00	180.00

Seats—To fit No. 1A wagon. Weight each, 5 lbs.	Each $2.50
Wheels— 8-inch, to fit Overland wagons	" .40
Wheels—11-inch, to fit Overland wagons	" .50
Roller Bearings	Per set of 4 $0.40

STEEL

HERCULES

Extra strong sheet-steel body, beaded. Kiln dried wood bottom with four cross cleats. Extra heavy steel gears and wire wheels of great strength. Hardwood handle with loop hand hold. Color of body, blue outside, red inside, stenciled in gold. Gears and wheels black enameled. Nickel plated hub caps. Packed two in a carton.

Nos.	326	330	336
Size of body, inch	12x26	14x30	16x36
Diameter of wheels, inch	10	11	12
Shipping weight per dozen, lbs.	198	240	330
Per dozen	$100.50	119.00	179.00

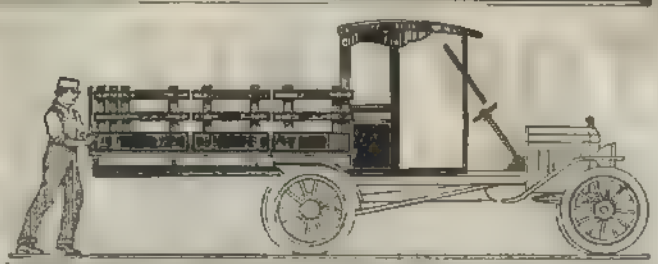
WHEEL GOODS

BICYCLES AND BICYCLE SUNDRIES

BAKER, HAMILTON & PACIFIC COMPANY

"PARAMOUNT" AUTO BODIES

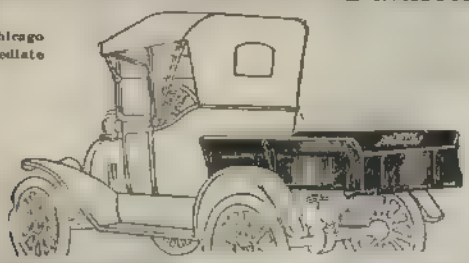
or Fords. Sturdily constructed and will meet all conditions of service. There is a big demand for commercial bodies for Ford cars and it is steadily increasing every day. Paramount bodies are easily attached. Shipped direct from factory in Central Illinois, F.O.B. 48 hours' service.



You can't see how easy it is to put on a "Paramount" commercial body. NO EXTRA TAPPING. They can be shipped on in a minute and attached ready for use in a minute.

"PARAMOUNT" SLIP-ON BODY FOR FORD ROADSTERS

stock in Chicago dy for immediate ipment.



STAR VALUE

BODY 12 x 2" ... hardwood crosssills; balance of body ⅞ in. stock heavy steel, ... gauge.

LOADING SPACE—40A ... 42x12 in. 4½ in., hardwood slats boards with 3 double brass ... hinges.

PAINTING—Black ... color.

SHIPPING WEIGHT—Crated K. D. 115 lbs. All parts drilled and bored. Easily ... ber.

EQUIPMENT—All necessary bolts furnished.

4K4984—48 inches long ... Each. $10.75

4K4978—60 " ... " 11.50

"PARAMOUNT" EXPRESS BODY FOR ANY MODEL T FORD CAR

We guarantee this to be one of best express bodies built for Ford cars. Well adapted to ... of farmer, dairyman, hardware and general use.

SPECIFICATIONS.

BODY—Panels 10 in. high. Corners metal bound. Entire body well ironed and braced ... 4 double steel braces on each side. Floor protected by iron strips. Sills and flareboards ... hardwood. Balance of body made of selected stock.

LOADING SPACE—42x62 in. Full width rear end gate with chains.

PAINTING—Black ... gular.

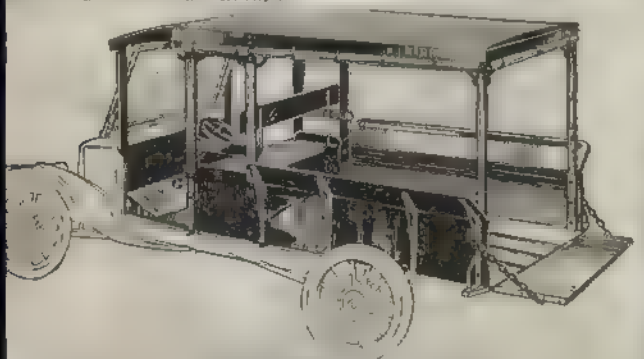
SHIPPING WEIGHT—Crated K. D. ... lbs.

EQUIPMENT—Includes toe boards and irons; also all irons necessary for attaching to ... rear lamp bracket.

4K4975—1 in crate ... Each $35.00

"PARAMOUNT" EXPRESS BODY

This express top commercial body is one that can be used by a wide variety of business men. ... butchers, plumbers, gas and telephone companies and practically any kind of business ... calls for general trucking or delivery car.



SPECIFICATIONS

TOP—Heavy, well ironed. 8 post; special, heavy brace irons designed to withstand rough ... heavy rubber covered deck; heavy black enameled duck roll-up curtains all around ... roll ... cross ... large ... lights on the ... of ... seat.

BODY—All ... made of carefully selected and seasoned hardwood, panels are 10 in. high ... leave flare boards. Full width seats.

TRIMMING—Full width folding lazy back on drivers' seat.

PAINTING—Black ... color.

LOADING SPACE—42x62 in. ... high, full width rear end gate with chains adjustable ... any style load.

SHIPPING WT.—Knocked down and crated, under 34 in., 600 lbs.

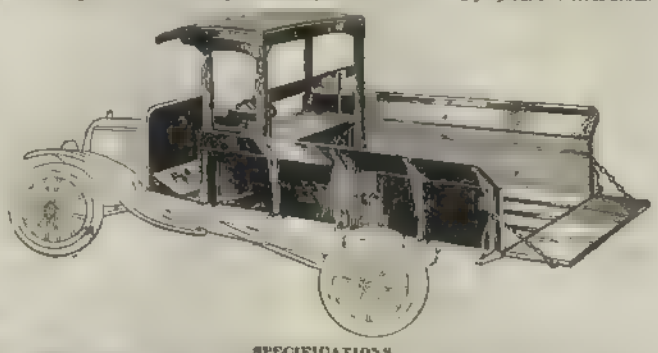
EQUIPMENT—Includes rear lamp bracket, toe boards and irons, all irons necessary for ... bolting to chassis.

4K4979—1 in crate ... Each $85.00

4K4991 Windshield extra ... 16.00

"PARAMOUNT" CAB SEAT OPEN EXPRESS BODY

This type of commercial body meets a large demand for hauling purposes of various kinds.



SPECIFICATIONS

BODY—Panels are 10 in. high inside ... corners metal bound, entire body well ironed and braced, floor protected by iron strips, sides and ... ribbed with this equipment ... 4 double ... steel braces on each side. ... Hardwood ... back ... the width of seat.

PAINTING—Black ... color.

LOADING SPACE—42x62 in. ... width rear end gate, with chains permitting one to adjust body to any style of load. Hardwood slats, cross rails and flare boards.

SHIPPING WEIGHT—Crated and ... 500 lbs.

EQUIPMENT—Includes rear lamp bracket, toe boards and irons; also all irons necessary for attaching to chassis.

4K4977—1 in crate ... Each $47.50

4K4991—Windshield extra ... 16.00

"PARAMOUNT" COMMERCIAL STAKE BODY

SPECIFICATIONS

BODY—Well made for general service ... of well seasoned hardwood, cross sills heavily ironed, ... steel rails, floors hardwood protected with steel strips, windshield not included with this ... t.

PAINTING—... gular.

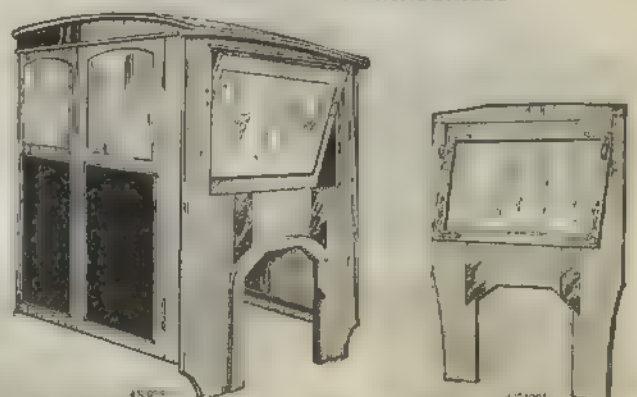
LOADING SPACE—48x90 in. Two stake sections, side and rear.

EQUIPMENT—Includes platform body with removable sign board stakes, cab complete except ... brackets.

4K4982—... crate ... Each $68.00

4K4991—Windshield extra ... 16.00

ENCLOSED CAB AND WINDSHIELD



4K4991

Enclosed Cab—44 in. wide, 44 in. long, 56 in. high, door on right hand side, panel or left, ... with ... covered for warm weather, fan lined with seat and ... boxed and padded back ... glass ... rear ... all ... all holes drilled, bolts and screws furnished ... brackets ... for ... seat ... enclosed.

4K4983—1 in crate, ... lbs. ... Each $75.00

Windshield—34 in. high, 40 in. wide, glass 20x32 in., oak frame well ironed, adjustable sash, ... can be used with practically all commercial bodies.

4K4991—1 in crate, 90 lbs. ... Each. $16.00

A Packard which handles heavy loads in city traffic. How soon will the truck assembled to meet an arbitrary price eat away the deceptive first cost "saving"—when accurately compared in upkeep and repairs to the Packard, built with long-term transportation as the object

Can the Metal Industries Afford Avoidable Replacement Costs

TODAY permanence is what every keen manager wants in his buildings and equipment.

Only too well he knows the effect of repairs and replacements on his operating costs.

Yet when it comes to trucks, how often he expects to get more out of them than the maker actually put in.

* * *

The Packard people are primarily *transportation engineers.*

The basis of the Packard Truck is *unified engineering* —not merely a blue print and specifications of commercial parts; but Packard engineering design and Packard control of every Packard part.

Packard frames of *rolled* channel steel not commercial pressed steel.

Packard live axles of special steel, *heat-treated* in furnaces designed by Packard. Tensile strength—220,000 pounds to the square inch.

Packard Engine both *strong* and *simple.* Four crank shaft bearings, as against the ordinary three.

One cam shaft only, and but *three* timing gears, in the Packard.

All valves *enclosed,* and with automatic lubrication.

Packard clutch and universal joints *enclosed.* The clutch of dry multiple disc type, with *extra-large* clutch surface. No leather, and nothing exposed.

Packard *four-speed* transmission with *even* ratios—as against only three speeds and uneven ratios.

Packard gears *forged* and *heat-treated* by *unique* methods that give 10 to 20 per cent above average shock-resisting ability, steady load value and long life.

* * *

Such sound engineering facts as these hold a significant interest for the plant manager.

He sees in them the elimination of *avoidable* costly truck replacements—and a corresponding decrease in his operating costs.

"Ask the Man Who Owns One"

PACKARD MOTOR CAR COMPANY, *Detroit*

AUTOMOBILES

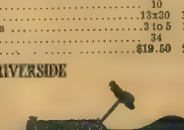
CLEVELAND

Steel throughout with exception of seat. Frame reinforced with steel cross members, supporting body and gears. All steel gears; standards of elliptic spring design. Rigid front axle with forged knuckle-joints.

Ratchet starting crank, radiator cap, 6-inch steering wheel, nickeled hub caps. Body and hood, red; yellow and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	500¾	500½
Size rubber tires, inch	¾	½
Diameter wheels, inch	10	10
Size body, inch	13x20	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	34	35
Each	$19.50	20.20

RIVERSIDE



Steel throughout. Frame reinforced with steel cross members, supporting body and gears. All steel gears; standards of elliptic spring design. Rigid front axle with forged knuckle joints. Ratchet starting crank; 6-inch steering wheel, adjustable seat, nickeled hub caps. Body and hood red, yellow and black striping. Gears and wheels black enamel, baked. One in a case.

Nos.	510¾	510½
Size rubber tires, inch	¾	½
Diameter wheels, inch	10	10
Size body, inch	13x30	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	37	38
Each	20.85	22.10

BUCKEYE

Steel throughout with exception of seat; frame reinforced with steel cross members; supporting body and gears. All steel gears. Standards of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, fenders, 6-inch iron steering wheel, nickeled hub caps. Body, spartan red; striping, black and orange. Gears, wheels and fenders, black enamel, baked. One in a case.

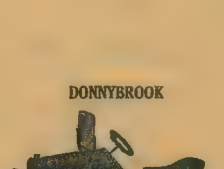
Nos.	515¾	515½
Size rubber tires, inch	¾	½
Diameter wheels, inch	12	12
Size body, inch	13x30	13x30
Suitable for children, years	3 to 5	3 to 5
Shipping weight, lbs.	40	42
Each	$25 00	27.50

EDGEWATER

All steel body and hood; seat, dash and radiator of wood. All steel frame and gears; standard of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, 6-inch steering wheel, fibre-covered seat, nickeled hub caps. Body and hood, red; yellow and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	520¾	520½
Size rubber tires, inch	¾	½
Diameter wheels, inch	10	10
Size body, inch	13x38	13x38
Suitable for children, years	4 to 6	4 to 6
Shipping weight, lbs.	42	42
Each	$24.60	26.00

DONNYBROOK



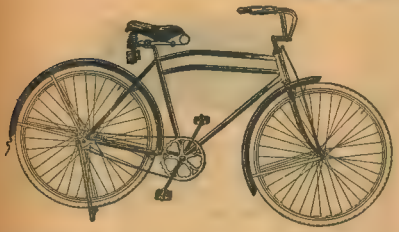
All steel body and hood; seat, dash and radiator of wood. All steel frame and gears; standards of elliptic spring design. Rigid front axle with forged knuckle-joints. Steel bumper, ratchet starting crank, radiator cap, adjustable windshield; 7-inch steering wheel, upholstered seat, nickeled hub caps. Body, green; hood, red; bronze, white and black striping. Gears and wheels, black enamel, baked. One in a case.

Nos.	530¾	530½
Size rubber tires, inch	¾	½
Diameter wheels, inch	10	10
Size body, inch	13x38	13x38
Suitable for children, years	4 to 6	4 to 6
Shipping weight, lbs.	45	46
Each	$28.35	29 60

Lamps and horns extra.

BICYCLES

CROWN NAME PLATE



Rims—36-hole, enameled white center, one wide black and one hairline black stripe, gray edge.

Chain—½-inch x 1-inch pitch roller. Diamond.

Finish—Maroon with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather Lull dog grips.

MOTOR BIKE

MODEL 54

Frame—Double bar, curved top bars, 20-inch, 5-inch head, 1-inch 19-gauge tube; flush connections, ⅞-inch tapered rear forks; ⅝-inch rear stays.

Fork—Full enameled, with braces motorcycle type.

Crown—Forged.

Cranks—Fauber round special, 7-inch, one-piece patented, with heart design sprocket.

Gear—26-tooth front, 10-tooth x ⅞x1-inch pitch rear.

Hubs—Coaster brake. New Departure on wood rims, Morrow on steel rims, front hub to match.

Mud Guards—Drop side, steel, front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

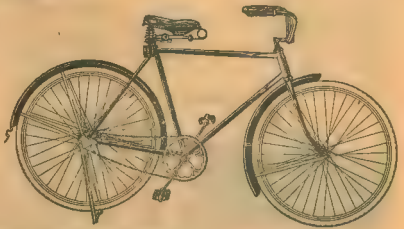
Model 54—Wood cement rims, New Departure coaster brake, complete ..... Each $60.00

Model 54 Steel cement rims, Morrow coaster brake, complete ..... Each $60.00

Model 54—Steel double clinch rims, Morrow coaster brake, complete ..... Each $65.00

No. 8 Tool Bag, wrench and oiler, extra..... Per set $1.00

MODEL 46



Frame—21-inch, 1-inch 19-gauge tube; 5-inch head; flush connections; ⅞-inch tapered rear fork; ⅝-inch rear stays.

Fork—Full enameled, with fancy dart finish.

Crown—One piece forged.

Cranks—Fauber round special 7-inch one-piece patented, with heart design sprocket.

Gear—26-tooth front; rear 10x⅞-inch.

Hubs—Coaster brake, New Departure on wood rims, Morrow on steel rims, with front hub to match.

Rims—36-hole, enameled, white center, with one wide black and one hairline black stripe, gray edge.

Chain—½-inch x 1-inch pitch roller. Diamond.

Finish—Maroon with white head.

Tires—Fisk-Premier Tough Tread Non-Skid, 28x1½-inch, guaranteed.

Saddle—Troxel No. 2 motorbike.

Pedals—Rubber motor.

Bars—No. 10 adjustable expander forward extension, with No. 10 sewed leather Lull dog grips.

Mud Guards—Drop side, steel front and rear, flat braces, enameled, with center stripe to match head.

Stand—Dead nickeled.

Model 46—Wood cement rims, New Departure coaster brake, complete..... Each $58.00

Model 46—Steel cement rims, Morrow coaster brake, complete ..... Each $59.00

Model 46—Steel double clinch rims, Morrow coaster brake, complete ..... Each $63.00

No. 8 Tool Bag, wrench and oiler, extra..... Per set $1.00

The above bicycles are completely equipped, except tool bag outfit, and positively no changes in equipment will be made.

Average shipping weights—Wood rim bicycles, 60 lbs. Steel rim bicycles, 65 lbs.

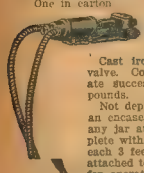
WASHING MACHINE ELECTRIC MOTORS
FOR NO. 32 HORTON

Horsepower of Motor ⅛
50-60 cycle, 110 volt, alternating current.

No.	82M
Height, inch	5¼
Case, inch	4½x5
Shaft, inch	½x8
Ship. wgt ea, lbs	16
Each	$37 50

One in carton

WATER MOTORS
HORTON PEERLESS



With Dolly and Hose Complete

Cast iron case with brass automatic sliding valve. Connects direct to faucet and will operate successfully on as low a pressure as 20 pounds.

Not dependent on springs to operate, but uses an encased brass spring as a cushion to relieve any jar at end of stroke, and to reverse. Complete with intake and outlet. Small rubber hose, each 3 feet long, wire bound. Can be used and attached to any rotary washing machine, or used for operating other small machinery.

No. 080—Length over all, 17 inches; net weight each, 16½ lbs; dozen in case, ½; shipping weight per case, 120 lbs Loose . . . . . Each $21.00

RED DEVIL

Most economical power producer for household purposes. An invaluable hydraulic power plant for house or workshop. Can be attached to any kitchen faucet. Cost about one cent per day to operate.

No. 1994—Intended for heavier household work. Develops on 80-lb pressure water main, ¼-brake horsepower. Furnished with 6-inch motor and 2x1¼ flat belt. Double flanged pulley. Can be attached to small machinery, rotary washing machines, etc

No. 1492—Used for polishing, buffing, grinding and running small machinery. Develops 5000 revolutions on 80-lb pressure, delivering ⅛-brake horsepower. Furnished with 1¼-inch grooved wood pulley wheel, 4-inch beveled faced emery wheel, felt buffing wheel and cake of silver. One in a carton.

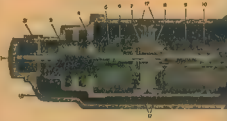
Nos.	1994	1492
Length, inch	9½	6½
Width, inch	7	5⅝
Shipping weight each, lbs	12	6
Each	$10 20	7.20

REPAIRS FOR WASHING MACHINES
FOR HORTON VACUUM WASHER NO. 35

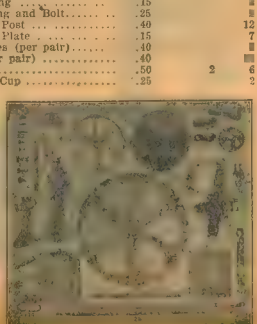
Nos.	Name	Price	Wt lbs
7	Spout	$0.15	⅞
* 10	Lid handle	.15	⅛
* 65	Plug	.10	⅛
*132	Lock casting	.15	¼
*133	Lock casting and bolt	.25	⅜
*142	Pitman bolt	.15	⅞
*143	Pitman bolt	.15	⅞
*190	8 inch power pulley	2.00	5
*191	Fly wheel	2.00	12⅞
*192	Large gear wheel	1 00	3⅜
*194	Tub handles, pair	.40	⅞
*195	Lid hinges, pair	.25	⅞
*211	Lock lever	.40	⅝
*236	Lock lever bolt	.15	⅛
*500	Handle bracket	.85	2⅞
*505	Top frame	1.60	6⅝
*506	Plunger crank	.60	⅞
*507	Plunger shaft brackets	.60	⅞
*508	Plunger	1.60	3¼
*514R	Plunger bracket cover	.85	2⅝
*514L	Plunger bracket cover	.85	2⅝
519	Side frame	1.60	5⅞
*520	Top frame gear	.85	1⅞
*521	Top frame gear cover	.80	⅝
*522	Pitman	.40	1¼
*523	Frame shaft	.30	⅝
*524	Ball shaft	.30	⅞
*525	Plunger shaft	.85	1¼
*527	Lock lever spring	.15	⅞
*528	Wood lever	.25	¾

*For factory shipment only.

REPAIRS FOR WASHING MACHINES
FOR PEERLESS WATER MOTOR WASHER NO. 30



No.	Name	Each	Weight Lbs	Weight Oz
*1	Valve Plug	$ .60		
*2	Vellumoid Gasket	.05		1
*3	Valve	1.30		4
*4	Valve Nut	.20		
*5	Short Spring	.10		
*6	Valve Stem	.15		2
*7	Female Flange	.25		3
*8	Male Flange	.25		
*9	Spout	.10		
*10	Piston Tubing	.20		3
*11	Long Spring	.20		2
*12	Vellumoid Head Gasket	.05		
*13	Cylinder Head with Gland Nut	1 20		11
*14	Piston Packing	.05		1
*15	Gland Nut	.15		2
*16	Geared Rack	.60		8
*17	One Set Leather Cups	.60		
*18	Cylinder with Valve and Plug	6 20	5	
*19	Lid Lift	.15		2
*20	Motor Base with Roller	1.20	5	4
*21	Gear Cover	.35	1	8
*22	Gear	.25		
*23	Roller (not shown)	.15		2
*24	Inlet Hose with Connections	1 20	1	2
*24W	Hose Washer	.10		
*25	Outlet Hose with Connections	.80	1	
*27	Outlet Hose Weight	.15	1	
*30S	Dasher Shaft	.25		10
*65	Plug	.10		1
*132	Lock Casting	.15		
*133	Lock Casting and Bolt	.25		
*186	Galvanized Post	.40		12
*187	Galvanized Plate	.15		7
*194	Tub Handles (per pair)	.40		
*195	Hinges (per pair)	.40		
*198	Dasher	.50	2	6
*199	Galvanized Cup	.25		2



HORTON WASHING MACHINES

ELECTRIC

With Three-Way Wringer

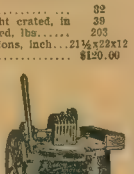
Combined hand or electric washing and wringing machine. High speed mechanism. Cut gears mounted on side. Steel frame cut geared wringer, ball bearing, with 1¾x10-inch rolls, guaranteed for five years. Tub Louisiana red cypress, natural finish. Four ball bearing casters. Motor equipped for alternating 110 or 220-volt current.

We stock No. 32 in 110V, 220V, 60 cycle and 110V, 50 cycle.

Horse Power of Motor, ¼.

No.	32
Extreme hght crated, in	39
Weight crated, lbs	203
Tub dimensions, inch	21½x22x12
Each	$120.00

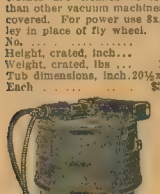
VACUUM HAND OR POWER



Agitator makes 2½ strokes to each operation of lever. Mechanism disconnected when lid is open.

The many perforations or air valves cause so much agitation clothes are cleaned in less time than other vacuum machines. Gears covered. For power use 8x1¾ pulley in place of fly wheel.

No.	■
Height, crated, inch	36
Weight, crated, lbs	101
Tub dimensions, inch	20½x22½x12
Each	$37.50



PEERLESS WATER MOTOR

Tub of Louisiana red cypress. Dasher post guarded with cap, preventing injury to clothes. Stave leg type. Operated with the Peerless water motor.

No.	80
Height, crated, in	31½
Weight, crated, lbs	71
Tub dimensions, in	20½x22½x13½
Each	$34 00

COMBINATION HIGH SPEED

With Three-Way Wringer For Hand or Belt Drive

Combined washer and wringer. Tub Louisiana red cypress, natural finish. Cut geared. Metal cap over end of post prevents injury to clothes. Wringer and machine operated by same power. Interchanges with fly wheel for hand power. Wringer guaranteed five years. Reversible and ball bearing. Size of rolls, 1⅝x10 inches.

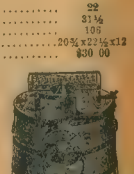
No.	31
Extreme height, crated, inch	50
Weight, crated, lbs	178
Tub dimensions, inch	21¼x22x12
Each	$75.00

MIRACLE HIGH SPEED HAND

Louisiana red cypress tub. Dovetailed staves. Steel hoops. High speed. Lever operated. Cut gears. Metal cap over end of post prevents injury to clothes. Legs are extensions of staves.

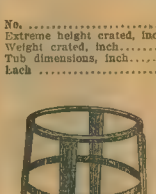
No.	22
Height crated, inch	31¼
Weight crated, lbs	105
Tub dimensions, inch	20¾x22½x12
Each	$30 00

HIGH SPEED POWER



Cut shows Miracle Belt Driven Power Machine. Pulley, 8x1¾ inches, should run 245 revolutions.

No.	22 P
Extreme height crated, inch	31½
Weight crated, inch	89
Tub dimensions, inch	20¾x22½x12
Each	$30.00



TUB STANDS

Light, strong, take less room than benches. Made of steel; aluminum finish. 4 feet on casters make it easy to move.

Weight pair crated, lbs..... 28

Per pair $5 00

HAND VACUUM WASHERS

Heavy tin. Raising and lowering the washer, the water and soap are forced through the clothes. This avoids rubbing or injuring the finest fabrics.

A hardwood handle 36 inches long is furnished with each washer.

No.	21
Height, inch	7½
Diameter, inch	8
Doz in carton, without handles	1
Net weight dozen with handles, lbs	29
Ship wgt carton, without handles, lbs	13
Ship wgt handles dozen, lbs	11
Per dozen	$15 00
Handles only	Per doz 3.00

Handles loose.

PENCIL AND SPECIAL TABLETS

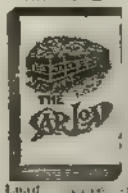
Big, bulky tablets with large counts of pages—compare them for quantity of paper and prices. When we say a tablet contains so many pages both sides of the sheet are counted, for example, a 100 page tablet has 50 sheets. Gross prices are for half gross lots or more

5½x8 SIZE

"The King Pin" — Ruled, news stock, red or green tint board cover. 1 doz. in pkg.
88804—5½x8, 50 pp. Doz. 50c
Gro. $5.75

"Nocks All" — Ruled, smooth news stock, red tint board cover. 1 doz. in pkg.
88815—5½x8, 100 pp. Doz. 50c
Gro. $5.60

6x9 SIZE



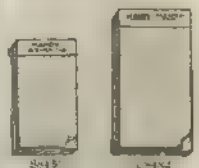
"Carlot" — Ruled, smooth news stock, with red tint board cover. 1 doz. in pkg.
88825—6x9, 100 pp. Doz. 55c
Gro. $6.15

"Chief White Locks" — Ruled, smooth news stock. 1 doz. in pkg.
88814—6x9, 80 pp. Doz. 42c
Gro. $4.70

8x12 SIZE

"General Pershing" — 8 styles, ruled smooth news stock, black and white covers. Assted. 1 doz. in pkg.
88847—8x12, 40 pp. Doz. 48c
Gro. $5.15

SCRATCH PADS



White News Stock — Unruled, 144 pp., perforated and stapled, bound and heavy board back. 25 pads in pkg.

	Per C
88481—2½x4½	$1.95
88482—3½x6	2.40
88483—4x6	2.75

8x10 SIZE

"Black Diamond" — Ruled, smooth stock. 1 doz. in pkg.
88039—8x10, 50 pp. Doz. 48c
Gro. $5.15

"Guarantee" — Ruled smooth news stock, popular black and white cover design. 1 doz. in pkg.
88830—8x10, 60 pp. Doz. 47c
Gro. $5.30

Army and Navy — 12 styles, ruled smooth news stock, with views. Assted. 1 doz. in pkg.
88830—8x10, 60 pp. Doz. 47c
Gro. $5.30

"Red Line" — Ruling, news stock, perforated and stapled, with red line for pen or pencil. 1 doz. in pkg.
88834—8x10, 60 pp. Doz. Out of Print

"Reflection"—4 styles, ruled news stock, litho covers. Assted. 1 doz. in pkg.
88847—8x12, 40 pp. Doz. 52c
Gro. $5.85

Manila 6x9, unruled yellow, gummed end, straw-board back, 50 pads in bundle
87373—Smooth finish, 140 pp. Per 100 $3.85
87371—Smooth finish, 160 pp..... Per 100, $4.20

"Movie Stars"—12 styles, ruled smooth news stock, fancy covers showing various favorites in the "Movie World." Assted. 1 doz. in pkg.
88810—8x10, 40 pp. Doz. 42c
Gro. $4.70

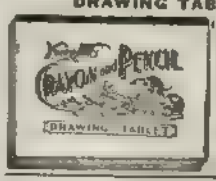
"Boy Scouts"—12 styles, ruled, smooth news stock, black and white "Boy Scout" covers. Assted. 1 doz. in pkg.
88810—8x10, 40 pp. Doz. 55c
Gro. $6.15

"Golden Rod" — Ruled, smooth manila perforated and stapled. 1 doz. in pkg.
88841—8x10, 80 pp. Doz. 58c
Gro. $6.50

School Tablet—4 styles, unruled news stock, assted. colored covers. Assted. 2 doz. in pkg.
88001—8x10, 40 pp. Doz. 63c
Gro. $7.15

"Warrior" — 8 styles, smooth news stock, red tint board cover. Assted. 1 doz. in pkg.
88847—8x12, 40 pp.
Gro. $5.40 Doz. 48c

DRAWING TABLET



Crayon & Pencil — Heavy white drawing paper, fine quality, black and gold title and design. 1 doz. in pkg.
88570—9x12, 24 leaves. Doz. 50c
Gro. $5.60

"ADVANCE" SPELLING TABLET

88558—4x9, 25 leaves, white wove paper, 25 numbered lines to sheet, perforated & stapled. 1 doz. in pkg.
Doz. 45c
Gro. $5.00

EXAMINATION TABLET

"Grade School" — White wove paper, red marginal lines, printed heading, holes for tying, red tag board cover, black title and design. 1 doz. in pkg.
88361—6x9, 48 leaves. Doz. Temp. Out

Merchants

Who are the most successful buyers, all the year 'round at the biggest values

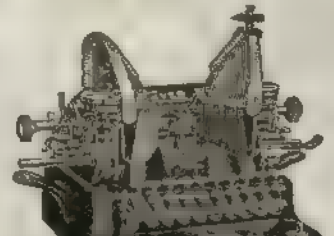
BUY FROM THESE PAGES

TYPEWRITERS ADDING MACHINE & SUPPLIES

Guaranteed rebuilt standard make typewriters at interestingly low prices. Also note carefully the prices we quote on supplies, etc. There are no better values on the market.

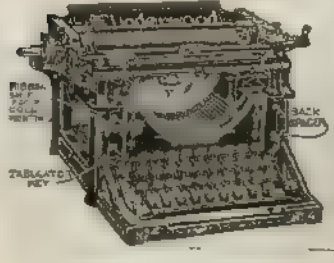
RECONSTRUCTED TYPEWRITERS

These machines have been rebuilt in every wearing part. Guaranteed for one year free from all defects and a new part will be furnished free in exchange for any part proving defective from other cause than misuse.



"Oliver" Visible Model No. 5, standard keyboard, back spacer, tabulator, ruling device, etc., as used for proper spacing when ruling on ruled paper sets of bills, etc., also with ruling attachment, with ribbon and rubber cover. 87005—4 in wood case, 17 lbs. Each $40.70

"Remington" Visible No. 10—Very late model, color printing, automatic ribbon reverse, back spacer, tabulator for columns or figures, splendid manifold qualities, exceedingly light touch, ribbon cover. 87397—1 in case, 64 lbs. Each $87.50



868—"Underwood" Visible No. 4, Bichrome Model, standard keyboard, back spacer, automatic ribbon reverse, takes paper up to 14 in. wide, tabulator, two color ribbon, perfect permanent alignment, in black, in fine condition, adjustable margin stops, 14 in. rubber roll. Serial numbers 100,000 up. Each in wood case 55 lbs. ..... Each Temp. Out

Extra Ribbons for "Remington" No. 10—
8803—Black record 1 in box Each 48c

Extra Ribbons for "Underwood" No. 4—
8806—Black record 1 in box } Each
8807—Purple 1 " } 48c

Extra Ribbons for "Oliver" No. 3—
8809—Black record 1 in box } Each
8811—Blue " 1 " } 48c

STENOGRAPHERS' NOTE BOOKS

Tag Board Cover, red or green tint, parchment back cover, 100 leaf pad, 3½x6 in.
Doz. 40c
Gro. $4.35

88839—4x6, 100 pp.
Doz. 43c
Gro. $4.60

Best Grade Hard Finish writing paper, ruling, 120 pp. Doz. Out

SECOND SHEETS

83741—8½x11, medium wt. manila sheets, 500 sheets to box Pkg. 72c

TYPEWRITER CARBON PAPERS

"Victor"—8½x13 extra fine, each 25 sheets in folder, 100 sheets in carton.
88735—Black } CARTON
88736—Purple } (100 sheets)
88734—Blue } $1.35
Lots of 10 cartons, solid or assted. carton $1.18

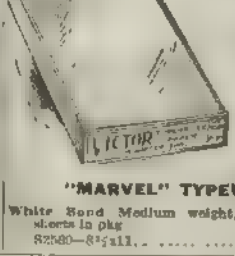
"VICTOR" TYPEWRITER PAPER

500 sheets in box

White Bond	Light wt.	Box
88880	8 x10½	$1.00
88881	8½x11	1.10
88882	8½x13	1.35

Cream Linen	Medium wt.	Box
88884	8 x10½	$1.20
88885	8½x11	1.30
88886	8½x13	1.80

White Bond	Medium wt.	Box
88890	8 x10½	$1.40
88891	8½x11	1.60
88892	8½x13	1.85



"MARVEL" TYPEWRITER PAPER

White Bond Medium weight, strong white bond. 500 sheets in pkg.
82580—8½x11..... Pkg $1.15

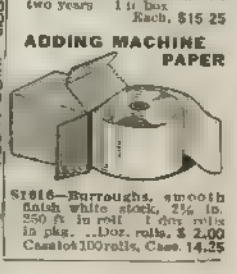
ADDING MACHINES

Add, subtract and multiply, guaranteed

$1422—"Golden Gem," 4½x5½ in. wt. 19 oz. nickel plated heavy metal outer casing, inner parts steel and brass, figures in black and white, 2 col. capacity 99,999.99, clears to zero mechanically, total always in sight. Each in morocco grain keratol case with 2 pens ..... Each $11.00

$1426—"Gem" Model 10, size 5½x8½x4½ in., nickel and nickel plated, 2 capacity 8 cols. $999.99, total in sight, 99,999,999 clears to zero mechanically, has figure for addition and red figures for subtraction. Guaranteed for two years. 1 in box Each, $15.25

ADDING MACHINE PAPER



$1816—Burroughs, smooth finish white stock, 2¼ in. 250 ft. in roll. 1 doz. rolls in pkg. ...Doz. rolls, $2.00
Carton 100 rolls, Case, 14.25

"LITTLE RED SCHOOL HOUSE" UNIFORM SERIES

Two series arranged for school use, each in five grades. Under attractive "L R S H" name and colored cover design—uniform throughout the series. With the high grade paper stocks and improved fittings essential to successful selling results. Gross packages contain assorted numbers

88788-88

88780-82

88780-90

88790-91

88798

88794

88

Pencil Tablets—Ruled, smooth manner wove stock, perforated and stapled, place for name and grade. 1 doz. in pkg

88785—6x9, 100 pp. Doz. 57c
Gro. $6.35
88784—8x8, 70 pp. Doz. 57c
Gro. $6.35
88788—8x10, 50 pp. Doz. 57c
Gro. $6.35

Writing Tablets—Ruled excellent quality wove paper wood with cover and with blotter, place for name and grade. 1 doz. in pkg

88790—5x8, 70 pp.
88791—6x9, 64 pp. } Doz. 57c
88792—8x10, 50 pp.
Gro. $6.35

Composition Books—Heavy white wove paper, flexible cover, useful information on back, cloth bound, linen sewed, place for name and grade. 1 doz. in pkg

REGULATION RULED
88780—7x8½, 100 pp. Doz. 57c
88781—8x10½, 70 pp. Gro. $6.35

DOUBLE RULED
88782—7x8½, 50 pp. Doz. 57c
Gro. $6.35

MARGINAL RULED—
88787—7x8½, 96 pp. Doz. 57c
Gro. $6.35

Students' Note Book—Ruled, heavy white wove paper, fine quality, cloth bound, linen sewed, place for name and grade. 1 doz. in pkg

88795—8x10½, 120 pp. Doz. 57c
88796—8x10½, 96 pp. Gro. $6.35

Examination Tablet—Heavy white wove paper, printed heading, proper ruling, punched holes for tying, place for name and grade. 1 doz. in pkg

88798—8x10½, 10 leaves Doz. 57c
Gro. $6.35

Theme Tablet—Heavy white wove paper, marginal ruled, punched holes for tying, cloth bound, place for name and grade. 1 doz. in pkg

88795—8x10½, 32 leaves Doz. 57c
Gro. $6.35

Spelling Tablet—Heavy white wove paper, 35 numbered lines, place for correct and misspelled words, perforated and stapled, place for name and grade. 1 doz. in pkg

88800—4x6, 40 leaves Doz. 57c
Gro. $6.35

Drawing Tablet—Heavy white brush and pencil paper, cloth bound, board back, place for name and grade. 1 doz. in pkg

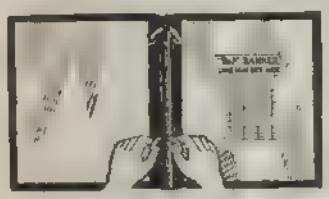
88794—9x12, 24 leaves Doz. 57c
Gro. $6.35

NOTE BOOKS LOOSE LEAF AND REGULAR STYLES

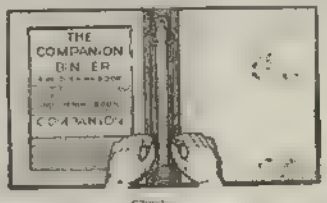
The kinds most in demand and entitled to a prominent showing in your school supply section

LOOSE LEAF NOTE BOOK COVERS AND FILLERS

Demands in schools for loose leaf books are enormous



S 300



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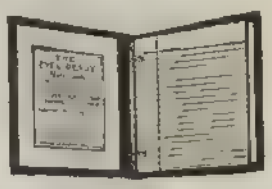


S 324

"Banner" Note Book—Open side, 10½x8, heavy green covered board sides, fitted with two rings, 8 in. between punchings. 1 doz. in box.

Doz. $2.40

S 300—Cover only

"The Companion"—Open side, 10½x8, heavy board cover, black linen cloth covered on fore-edge, dark inside and outside with red cloth, patent metal fixture with best of service use, metal rings, 6 inches from center to center. 3 doz. in box.

Doz. $4.00

S 3200—Cover only

"Ever Ready"—Open side, 11x8½, heavy board covers, red cloth bound, automatic fixture ring device, complete with 1 dozen heavy white paper fine quality marginal ruled sheets. 1 doz. in pkg

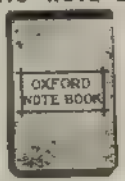
Doz. $3.60

S 324—Covers only, 6 for equal to

Extra Leaves—For S3295, S3294 and S3300, size 10½x8, 50 sheets in each punched, 6 in. center to center. 1 doz. fillers in pkg

S3296—Ruled with margin. } Doz. prices 92c
S4297—Unruled
S3298—Ruled, ruled
S3299—Quadrille ruled

STUDENTS' NOTE BOOKS



"Oxford"—Ruled, white wove paper, pressboard cover, open end, silk thread sewed. 1 doz. in pkg.

88580—6x8, 60 pp. Doz. 45c
Gro. $5.00
88581—6x8, 48 pp. Doz. 47c
Gro. $5.25

Make your window trims effective. THE BEST WAY TO ADVERTISE YOURSELF is the way you have to do this. WRITE FOR FREE COPY TODAY

COMPOSITION BOOKS

A choice selection of sales getters. Made up with neat and attractive cover designs. Just the thing to put on display to your students. Prices low for large lots of many of each kind to assort. Orders

"Songs of Victory"—5 styles, ruled, white wove paper, good writing surface, black and red cover designs, each with a different song, space for name and grade on back. Assorted 1 doz. in pkg.

88526—7x8½, 48 pp. Doz. 42c
Gro. $4.70

"Carload"—Ruled, hard finish paper, smooth writing surface, black and red cover designs, each with a different song, space for name and grade on back. 1 doz. in pkg.

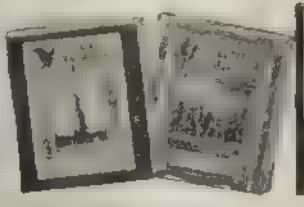
88527—7x8½, 48 pp. Doz. 45c
Gro. $5.00

"Dreadnoughts"—10 styles, ruled, white wove paper, named "Dreadnoughts" of all and each, these cups are different on back. Assorted 1 doz. in pkg.

88529—7x8½, 96 pp. Doz. 46c
Gro. $5.10

"Favorite"—Ruled, white wove paper, fine quality, imitation flexible book cover. 1 doz. in pkg.

88512—8x10½, 48 pp. Doz. 47c
Gro. $5.20



"Patriotic"—12 style, ruled, white wove paper, fine quality, assorted fancy covers of "Our National Hymn" and "Our Country's Flag." 1 doz. in pkg.

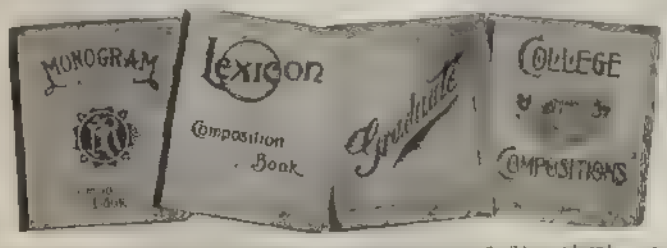
88540—8x10½, 48 pp. Doz. 47c
Gro. $5.20

"High School"—Ruled, white wove paper, double rule, pressboard cover, useful information on back. 1 doz. in pkg.

88543—8x10, 96 pp. Doz. 43c
Gro. $4.80

POPULAR COMPOSITION BOOK ASSORTMENT

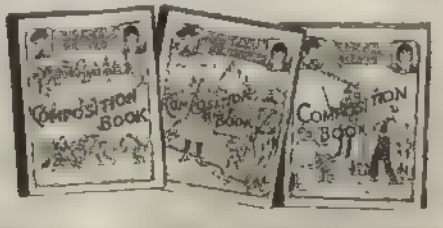
Fast selling assortment. Fine quality white wove paper, flexible pressboard cover. Useful information printed on back.



88518—12 styles, 7x8½, 48 pp. ruled, fine quality white wove paper, flexible pressboard covers, cloth strip and sewed, useful information on back. Assorted 2 doz. in pkg. Total 24 pp. Doz. **49c**
Gro. lots, $5.50

"JUVENILE SERIES" COMPOSITION BOOK

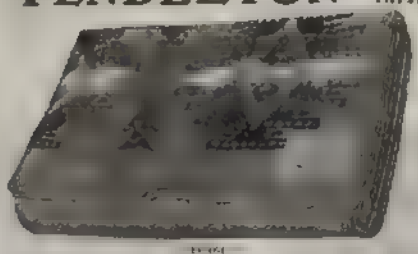
A great favorite with the younger school boys and girls. 96 pages of excellent paper and fine variety of outdoor cover designs.

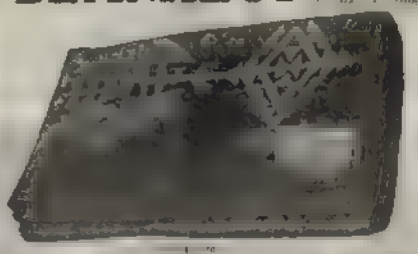


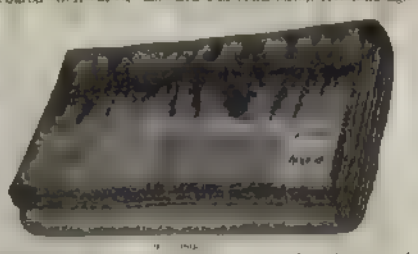
88548—7x8½, 60 pp. plain ruling, fine quality white wove paper, 12 [illegible] 2 doz. in pkg. Total 24 pp. Doz. **50c**
Gro. lots $5.60

"PENDLETON" INDIAN PATTERN BLANKETS

WOOL AND COTTON. Now popular per roll. It has patterns of the most noted fast. Used for couch throws auto and steamer robes. Pleased wool of fine thoroughly scoured well milled machined and construction felt blankets







"Pendleton" 62x78 superior pure fleece wool filling [illegible] Each $15.00

"Cayuse" 62x78 pure all wool filling [illegible] Each $9.50

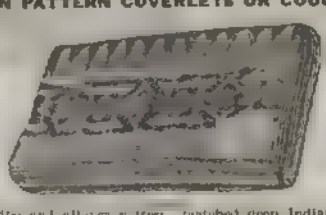
9D7086—GROUND with green & white
9D7087—OLIVE DRAB GROUND with red, brown & tan.
9D7088—GREEN GROUND with white, red & black.
9D7089—TAN GROUND with green, red & brown.
9D7091—PURPLE GROUND with green, red & BLACK.

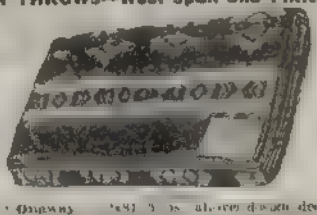
9D7084—GRAY GROUND with green, blk, red & wht
9D7085—DK. BROWN GROUND with tan, green & red
9D7093—BLUE GROUND with red, green, black & white
9D7095—BLACK GROUND with red, green, purple & gold

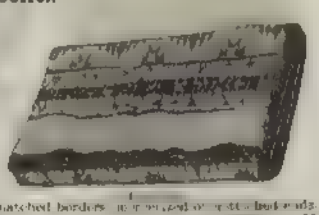
INDIAN PATTERN NOVELTY JACQUARD COVERLETS OR COUCH THROWS

Wool spun and finish cotton. Indian patterns [illegible] for all summer purposes. Made of fine China and Peruvian cottons, finest reinforced core yarns giving added strength, compact weave, deep, soft nap, harmonizing or contrasting border

INDIAN PATTERN COVERLETS OR COUCH THROWS—Wool Spun and Finish Cotton







Tawa [illegible] borders, overlock stitched hem ends
9D7356—GRAY, red green & black comb
9D7355—TAN, 2 tone blue & brown comb
9D7357—NAVY red green & [illegible]

Each $4.40
Lots of 10 Each $4.25

"Chico"—60x80, 2½ lbs. all over diagonal [illegible] hem ends
9D4602—NAVY green, red and gold comb.
9D4603—GRAY and [illegible]
9D4604—TAN [illegible]
Each $5.25 Lots of 5 Each $5.00

Colonial 72x84 1½ lbs. slumber blanket, [illegible] hem ends
9D4418—NAVY red green & tan comb
9D4419—GRAY red green, black & white
9D4420—TAN red, green & brown comb
Each $5.60 Lots of 10, Each, $5.40

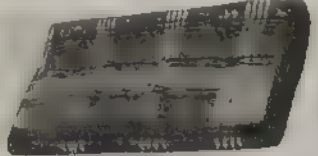
"Omaha" [illegible] 2 lbs. all over design deep matched borders [illegible] ends
9D7062—NAVY red green & tan combination
9D7063—TAN red, blue & tan combination
Each $6.25
Lots of 10 Each $6.00

"Kiowa" 60x80, 2½ lbs. [illegible] and border effects
9D7060—NAVY, green, red & tan comb
9D7061—BROWN, red blue & tan comb
9D7062—TAN red, blue & green comb
Each $7.25 Lots of 5 Each, $6.85

"Omaha" [illegible] 2 lbs. all over color and stripe centers, enlarged plaid borders 2 in. silk taffeta bound ends.
9D7057—CORAL, blk, wh & cream comb
9D7058—NAVY red green & gold comb
9D7059—GRAY red, blue & white comb
Each, $8.25 Lots of 10, Each, $7.85

NOVELTY JACQUARD COVERLETS OR COUCH THROWS—Wool Finish Cotton

Made of fine China cotton wool finish reinforced core yarns giving added strength and durability. Each in box



"Kanchi" 54x72, 1½ lbs. heavy all over [illegible] and contrasting borders, overlock stitched ends
9D7358—GREEN, maroon border
Each $5.25 Lots of 10, Each, $5.00
9D7359—TAN, blue border
Each $5.25 Lots of 10, Each $5.00

Indian Blue Spread 64x84, 2½ lbs. [illegible] blanket, square ends, plaid centers, hemstitched hem ends, hem ends. Each wrapped in
9D7360—blue ground, white & dk blue plaid
9D7361—gray ground, white & dk gray plaid
Each $6.75 Lots of 10 Ea. $6.45

"Kaibab" 60x80, 2½ lbs. heavy all over [illegible] blanket, square ends, plaid centers, hemstitched hem ends
9D7065—NAVY, maroon & blue
9D7066—GRAY
9D7067—Tan
Each $7.25
Lots of 10 $6.85

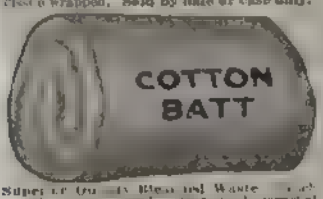
Aztec 60x80, 2½ lbs. [illegible] each pair, fine cotton wool finish reinforced core yarn, soft nap, reversible block plaid matched 3 in. sateen bound ends
9D7063—Gray & white
9D7064—Tan & white
9D7065—Blue & white
9D7061—Blue & white
Each $7.25
Lots of 10, $6.85

COTTON BATTS

There is enormous demand for cotton batts. Manufacturers are loaded up with orders and costs are high. In view of such market conditions our stocks and values are extraordinary. Note the batts in cartons—space saving packing for merchants with little shelf room

WASTE COTTON BATTS—Small Size Rolls

Sometimes called "short staple" Rolls open to about half the size of a comfort roll [illegible] wrapped. Sold by bale or case only.



Superior Quality Bleached Waste [illegible] Each roll 10 lbs. stuck every wool purchased [illegible] Bale 60 lbs. 3 Rolls 30 lbs. 2 Rolls 20 lbs. $6.50

Fair Grade Natural Waste Well worth 1 [illegible] Bale 60 lbs. $10.00

Extra Good Semi Bleached Waste [illegible] Bale 60 lbs. $13.60

"SUPER QUALITY" WASTE BATTS—In Carton

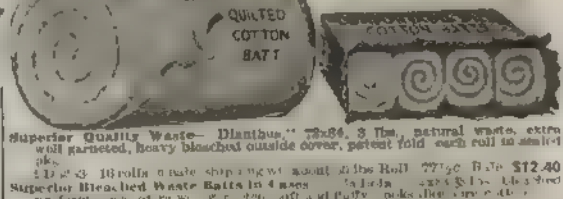
Ideal [illegible] put up in "Sheet-of" cartons, quality small batts in the size of standard pkg. large batts [illegible] the size

9D6254—[illegible] bleached waste, natural uniform blanket, [illegible] carded & soft and fluffy looks like pure [illegible] Bale 60 lbs. 3 Rolls
9D6255—Fair grade [illegible] size, about half size of comfort roll, loose, [illegible] Bale 60 lbs. in Bleached and [illegible] Bale 60 lbs. $3.00

9D6255—Extra comfortable size about 7 lbs. per fold [illegible] carton, [illegible] rolls 3 lbs. [illegible] rolls in carton, Bale 60 lbs. $3.60

COMFORTABLE SIZE COTTON BATTS

Extra [illegible] comfortable. Sold by bale, case or carton only



Superior Quality Waste—Dianthus," 72x84, 3 lbs., natural waste, extra well garnetted, heavy bleached outside cover, patent fold each roll in sealed [illegible]
9D6253—3 10 rolls to bale, shipping wt about 30 lbs. Roll 27½c Bale $12.40

Superior Bleached Waste Batts in Cases [illegible] Bale 60 lbs. Bleached [illegible] Case $15.20

Staple Cotton Batts in Cases. Cheyne, 72x84, 2½ lbs. [illegible] 10 rolls to case, shipping wt about 50 lbs. Roll $1.15 Case $13.40

Quilted Staple Cotton Batts in Cases. Dianthus," 72x84, 2½ lbs. [illegible] Fine grade of cotton, over quilted or stitched every 4 inches whole length of batt
9D6255—1 roll to case, shipping wt about 5 lbs. Roll $1.40 Case $19.20

Staple Cotton Batts in Cartons. Cheyne, 72x84, 2½ lbs. clean [illegible] soft cut, over [illegible] Roll
9D6284—6 rolls in carton, shipping wt about 16 lbs. Roll $2.80 Carton $4.80

Good Staple Cotton Batts in Cartons. Verbena, 72x80, 2 lbs. [illegible] soft white fold cover, [illegible] Roll
9D6281—4 rolls to carton, shipping wt about 16 lbs. Roll $1.30 Carton $5.20

PURE COTTON BATTS—Small Size Rolls

Fair staple cotton [illegible] cream color filling soft cured [illegible] sheets of waste. About half comfort roll. Loose fold. Bale wrapped. Sold by case only

	Rolls in case			
9D6250	12	5 lbs.	Case	$15.96
9D6251	12	4½ lbs.	"	13.40
9D6252	10	4 lbs.	"	10.00
9D6253	10	3½ lbs.	"	8.00

Good Staple Cotton [illegible] long staple filling white cover, [illegible]

	Rolls in case	Wt		
9D6260	4 cartons	90	Case	$22.50

COMFORTABLE SIZE WOOL MIXED & PURE WOOL BATTS

Wool Mixed—Marietta, 72x90, 2 lbs. 80% pure wool, soft and fluffy, natural cream color
9D6283—1 roll in carton. Roll $3.25

Pure Wool—Wolbat," 72x80, 2 lbs., 100% pure wool, soft and fluffy, natural cream color
9D6282—1 roll in carton. Roll, $3.75

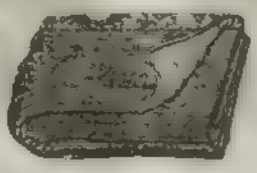
COMFORTABLES

Comparison of the quality at each price will prove the superiority of our values. To comply with state laws every comfortable is tagged stating filling, all shoddy goodies are sterilized making them sanitary, safe hygienic

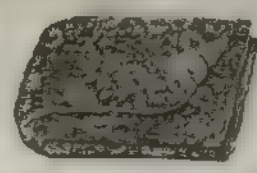
Note: Sizes are in inches, one of each before quoting, but we can furnish others if so frequently. Mixed cotton and wool grade of filling and lamb's wool. Weights of covers are average.

HEAVY WEIGHT COMFORTABLES—Shoddy Wool and Carded Cotton Fillings

9D4482 64x76, printed cloth medallion center, new green, red and white floral & Persian design, green back, shoddy wool filling, 52 to 54 lbs. to doz. Open stock Doz. **$28.00**
1 doz. in bale assid. " 25.00



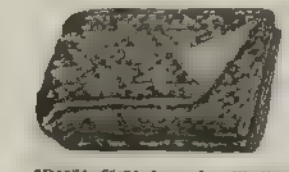
9D4484—64x76, printed cloth, green, red, black or slate grounds, all over Persian designs, red back, shoddy wool filling, 60 to 62 lbs. to doz.
Open stock Doz. **$33.00**
1 doz. in bale assid. " 29.50



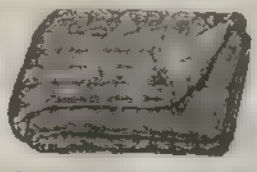
9D4501 64x76, printed cloth, medallion blue, red, green, rose and tan design, all over floral & Persian design, gray back, shoddy wool filling, 60 to 62 lbs. to doz. Open stock Doz. **$35.00**
1 doz. in bale assid. " 32.00

9D4045 66x76, printed cloth, all over floral design, rose, blue, green and tan, fast color, red back, shoddy wool filling, 60 to 62 lbs. to doz. Open stock Doz. **$43.00**
1 doz. in bale assid. " 39.00

9D4021 72x78, printed cloth, all over floral design, green, rose, blue and tan, fast color, red back, shoddy wool filling, 70 to 72 lbs. to doz.
Open stock Doz. **$44.00**
1 doz. in bale assid. " 40.00



9D4524—68x74, fast color silkaline all over floral design on med. blue, green, rose and brown grounds, fast color back, new white cotton filling, 70 to 72 lbs. to doz.
Open stock Doz. **$44.00**
1 doz. in bale assid., " 40.00

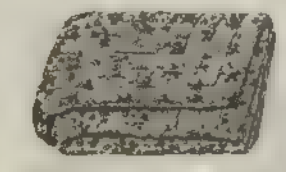


9D4026—72x78, fast color silkaline all over Persian design solid pink, blue, lavender or green backs, white cotton filling, 70 to 72 lbs. to doz.
Open stock, Doz. **$46.00**
1 doz. in bale assid., " 42.00

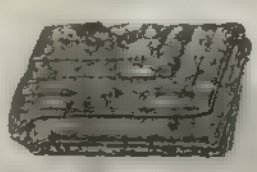
9D4048 80x76, fast color silkaline, all over floral or medallion on green, red, blue or rose grounds, red back, gray cotton fancy quilting, 70 to 72 lbs. to doz.
Open stock Doz. **$49.50**
1 doz. in bale assid " 45.00

9D4021 72x78, silkaline all over imitation patchwork Egyptian design, med. color combinations both sides all over, new white cotton filling, fancy quilting, 70 to 72 lbs. to doz.
Open stock Doz. **$55.00**
1 doz. in bale assid " 50.00

9D4047—72x78, fast color silkaline all over peony medallion design on brown and med. blue grounds, both sides alike, new white cotton filling, fancy quilting, 70 to 72 lbs. to doz.
Open stock Doz. **$57.00**
1 doz. in bale assid. " 52.00

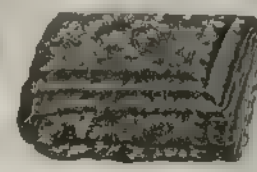


9D4049—72x78, fast color silkaline all over floral & paisley design on pink, blue, green, rose and tan grounds, both sides alike, new white cotton filling, fancy quilting, 72 to 74 lbs. to doz.
Open stock, Doz. **$59.00**
1 doz. in bale assid., " 54.00



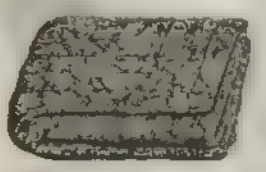
9D4022—72x84, fast color silkaline both sides, floral and Persian design, green, rose and tan grounds, both sides alike, new white cotton filling, fancy quilting, 72 to 74 lbs. to doz.
Open stock Doz. **$58.00**
2 doz. in bale assid. " 54.00

9D4070—72x84, solid color fancy red, rose and pink mercerized sateen, deep fast grenadine floral border, gray carded cotton filling, uniform thickness, 78 to 80 lbs. to doz. Open stock Doz. **$57.00**
1 doz. in bale assid., " 52.50



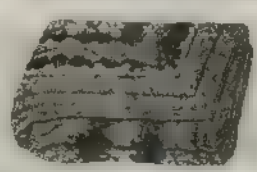
9D4041 72x78, fast color silkaline all over floral design on pink, blue, tan, rose, green grounds, center and back 9 in. matched solid color silkaline border, new white cotton filling, fancy quilting, 72 to 74 lbs. to doz.
Open stock, Doz. **$65.00**
1 doz. in bale assid. " 59.00

9D4030 72x84, fast color silkaline all over floral design on rose, green, lavender and gold grounds, both sides alike, new white cotton filling, worsted knotted 68 to 70 lbs. to doz.
Open stock Doz. **$67.50**
1 doz. in bale, assid. " 62.00



9D4040—78x84, fast color fine silkaline all over rose clusters, Persian design on green, rose and pink grounds, both sides alike, new white cotton filling, fancy quilting, 80 to 82 lbs. to doz.
Open stock, Doz. **$75.00**
1 doz. in bale assid " 69.00

9D4031—72x78, **printed sateen center,** matched silkaline back rose, green and blue, chrysanthemums on it grounds, 9 in. matched solid color stitched sateen border, new white cotton filling, fancy quilting, 70 to 72 lbs. to doz.
Open stock Each, **$7.75**



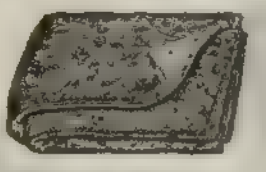
9D4028—72x84, **mercerized sateen** centered top, pink and blue gray tan or tan and old rose, 9 in. matched solid color sateen inner and chrysanthemum outer border matched silkaline back, new white cotton filling, fancy quilting, 72 to 74 lbs. to doz.
Open stock Each **$8.00**

9D4497 72x84, **mercerized sateen center,** matched silkaline back, all over Persian design on green, blue, rose and tan grounds, 9 in. matched mercerized sateen border, new white cotton filling, fancy quilting, 72 to 74 lbs. to doz.
Open stock Each **$9.50**

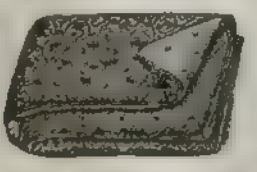
HOW to open a profitable basement store or give new life to an old one is clearly and practically set forth in "The BASEMENT STORE." Every progressive merchant should write for a FREE copy

LIGHT AND MEDIUM WEIGHT COMFORTABLES

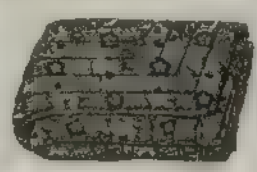
Patterns and color combinations that sell. Warmth without excess weight



9D4042 72x74, printed cifical rose all over floral design on it ground, solid color pink or old rose back, white cotton filling, worsted knotted 30 to 32 lbs. to doz.
Open stock, Doz. **$35.00**
1 doz. in bale, assid., " 32.00

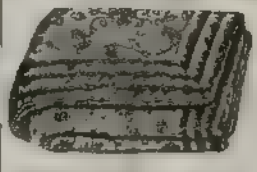


9D4043—68x78, printed silkaline all over small floral design on it ground, solid color pink, lavender or yellow back, white cotton filling, worsted knotted 36 to 38 lbs. to doz.
Open stock, Doz. **$44.00**
1 doz. in bale, assid " 40.00



9D4032—72x78, silkaline pink, blue or cadet solid color grounds, back to match, all over floral design, white cotton filling, worsted knotted 45 to 47 lbs. to doz.
Open stock, Doz. **$50.00**
1 doz. in bale assid " 46.00

MIXED WOOL AND COTTON AND PURE LAMBS' WOOL FILLED COMFORTABLES

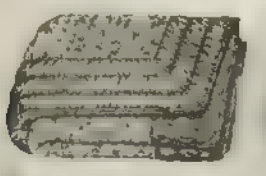


9D4533—72x78, fine silkaline, all-over floral design on it, center, matching back 9 in. solid color, black border, pure wool and cotton filling, 72 to 74 lbs. to doz.
Open stock Each **$9.00**

9D4085—72x78, fine silkaline both sides alike, all over floral design, green, blue and rose, pure lambs wool filling, fancy quilting, 68 to 70 lbs. to doz.
Open stock Each **$12.00**

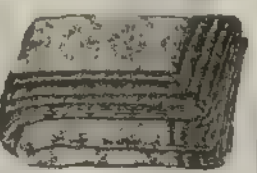
DOWN FILLED COMFORTABLES

Made with great care to prevent odor and shedding. SPECIFY COLORS

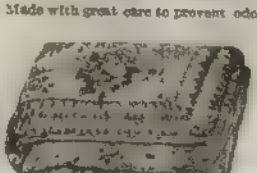


9D4033—72x78, fast color silkaline, med. color all over floral & lattice pattern ground, solid color back, white cotton filling, worsted knotted 42 to 44 lbs. to doz.
Open stock Doz. **$60.00**
1 doz. in case assid. 55.00

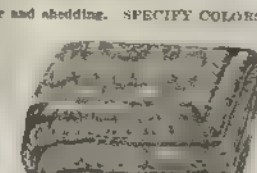
9D4034—72x78, fine silkaline, all over floral design on it, green, rose and tan grounds, back to match, 9 in. matched solid color sateen border, white cotton filling, worsted knotted 45 to 47 lbs. to doz.
Open stock Doz. **$78.00**
1 doz. in case assid " 70.00



9D4504—72x78, rosebud cluster & scattered dotted silk multi center, [illegible] 9 in. matched solid color sateen border, white cotton filling, worsted knotted center, 72 to 74 lbs. to doz.
Open stock Each, **$8.75**



9D4060—72x84, mercerized sateen center, black all over floral design on green, rose and tan grounds, 9 in. matched mercerized sateen border, fancy quilting, 78 to 80 lbs. half down filling.
Open stock Each **$16.50**



9D4061 72x84, mercerized sateen center, black all over floral design on green and rose grounds, 9 in. matched solid color sateen border, fancy quilting, 78 to 80 lbs. pure down filling, new white cotton back, pure down filling, fancy quilting, 78 to 80 lbs. to doz.
Open stock each **$20.00**

BASEBALL GOODS

The most complete and largest showing of baseball goods that we have ever assembled. No other line allows as wide a selection in styles and prices. Our many years of specialization in the handling of baseball goods makes it possible for us to offer the very best values at the prices we name. A thorough comparison of all numbers will convince you that you can save time and money when you buy here.

"PENNANT" BASEBALLS

Victor—8¼ in. heavy full weight, horsehide cover, hand stitched, wrapped in yarn, wool wrapped filler. Gro. $11.00 Doz. 95c

Boys Favorite—8¼ in. heavy full weight, horsehide cover, hand stitched, wrapped with yarn, wool wrapped filler wrapped with yarn.
1K621—1 doz. box. Gro. $13.25 Doz. $1.15

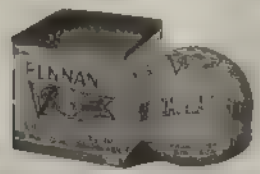
Boy Scout—8¼ in. heavy full weight, horsehide cover, hand stitched with orange thread, yarn wrapped filler.
1K628—1 doz. box. Gro. $14.50 Doz. $1.25

Amateur League—8¼ in. 5 oz. full weight, horsehide cover, hand stitched with red thread, yarn wrapped filler. Each in carton.
1K6[illegible]—1 doz. box. Doz. $2.75

Junior League—8¼ in. 5½ oz. full weight, horsehide cover, hand stitched with red thread, yarn wrapped filler with rubber center, wool wrapped, red thread stitched. Each in carton.
1K633—1 doz. box. Doz. $2.40

"PENNANT" REGULATION BASEBALLS

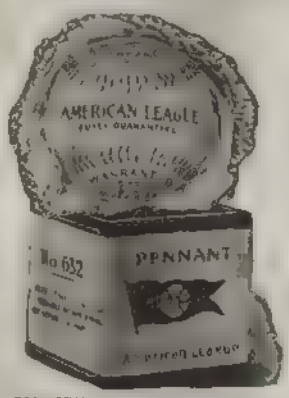
"College League"—Regulation 9 in. 5 oz. full weight, horsehide cover, hand stitched with red thread, yarn wrapped filler. Each in carton.
Doz. $4.95

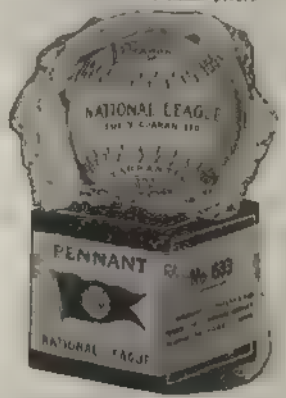


Official League—9 in. finest quality guaranteed regulation 5 oz. full weight horsehide cover, hand stitched with red thread, yarn wrapped filler, wool yarn, felt and tissue wrapped, sealed in carton.
1K637—½ doz. in carton. Doz. $13.25

"PENNANT" LEAGUE BASEBALLS—Guaranteed

Material and construction equal to any on the market at these prices





CONSTRUCTION—9 in., 5 oz., full 1 ox pure Para rubber center, yarn wrapped, selected genuine horsehide cover, double stitched with waxed thread by expert workmen. Our method of INSPECTION IS RIGID and great care is employed in attaining uniformity of appearance.

GUARANTEE—All Pennant League baseballs guaranteed 18 innings. We stand back of it with years of Merit in all requirements of professional leagues.

1K612—American League, sewed with red thread, green thread. Each in sealed carton. Sold in gross lots only. Doz. $15.50

1K613—National League, sewed with red and black thread. Each in sealed carton. Sold in gross lots only. Doz. $15.50

PLAYGROUND AND INDOOR BALL

1K644—9 in. soft ball, for use indoor and outdoor, sewed with red thread. 1 doz. box. Doz. $1.35

1K644—9 in. soft ball, for use indoor and outdoor, sewed with red thread. 1 doz. box. Doz. $15.50

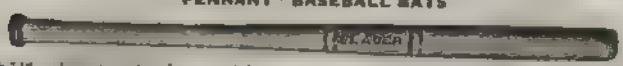
1K638—"Bingo." 11 in., 2 pc. inside, leather cover, double stitch, hand sewed with red thread, soft hair filled. ½ doz. in box. Gro. $26.00 Doz. $2.75

1K640—Mascot, official size, armory indoor base ball, selected best quality leather cover, soft hair filled. ½ doz. in box. Doz. $6.50

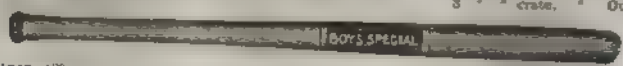
BASEBALL BATS

Well balanced, carefully turned from thoroughly seasoned timber. Pennant bats are recognized as the best values on the market. They are made by the manufacturers of the celebrated "Louisville Slugger" bats and are accepted by all as the utmost in quality.

"PENNANT" BASEBALL BATS

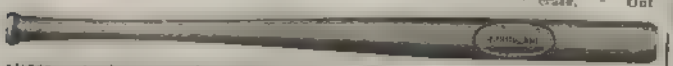


1K546—Length 34 in. long, straight grained ash, natural smooth finish, four black painted bands at ends, center. 1 doz. in pkg. Doz. Temp 3 " " crate, " Out

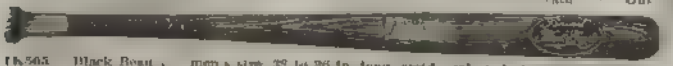


1K547—"Boys Special." 30 in. long, straight grained ash, varnished, 5 in. green stripe and two narrow black stripes around center. 1 doz. in pkg. Doz. Temp 3 " " crate, " Out

1K533—"American Boy." 33 in. long, straight grained ash, nicely varnished, 6 in. stripes. Assrd. red and green and two narrow stripes around center. 1 doz. in pkg. Doz. Temp " " " crate, " Out



1K549—Lumberman youths size 34 in. long, straight grained ash, lathe polished and flame burn finish. 1 doz. in pkg. Doz. Temp " " " crate, " Out

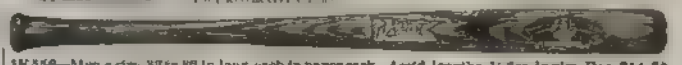


1K565—Black Beauty, men's size, 32 to 36 in. long, assrd. selected straight grained ash, with walnut stained body and golden finish handle beautifully polished, new style taper wound grip, each in paper bag. ½ doz. in pkg. Doz. $8.75

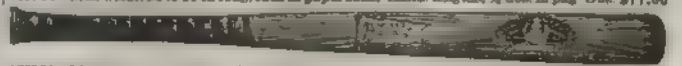
1K554—Black Beauty, men's size, 32 to 36 in. long, thoroughly seasoned straight grained ash, with solid black finished hand turned and rubbed finished barrel, new style taper wound grip, each in paper bag. ½ doz. in pkg. Doz. $10.50

"PENNANT" OFFICIAL CLOUTER BATS

"Louisville Slugger" quality. Guaranteed strictly first quality seasoned white ash hand turned assorted professional league models, flame burnt, hand rubbed and polished. "Clouter" trademark in an attractive color.



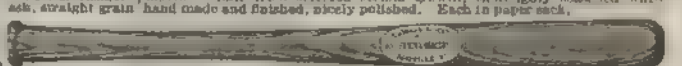
1K556—Mini a size, 32 to 36 in. long, each in paper sack. Assrd. lengths, ½ doz. in pkg. Doz. $11.60



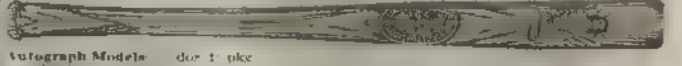
1K557—Men's size, 32 to 36 in. long, tape wound handle, each in paper sack. Assrd. lengths ½ doz. to pkg. Doz. $12.00

HILLERICH AND BRADSBY'S "LOUISVILLE SLUGGER" BATS

The world's greatest slugger. Used by all the well known professional American and National League players. Made from selected second growth, thoroughly seasoned white ash, straight grain, hand made and finished, nicely polished. Each in paper sack.

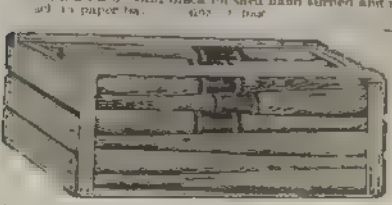


Plain Models—½ doz. in pkg.
1K505—Polished. Doz. $12.84



Autograph Models—½ doz. in pkg.
Doz. $12.84

1K555—Weather proof red green transfer finish bats, rubber handle and well finished. Assrd. patterns and lengths, all same price. Each in paper sack.

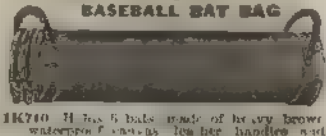


"PENNANT" BASEBALL BAT ASSORTMENTS

1K548—"Boys Assortment." 30 in. long, straight grain ash, 1¼ in. top, natural finish with four painted black stripes around center. 1 doz. in box with 6 in. green stripe and two narrow black stripes around center. ½ doz. in pkg. Asst. $6.00 Doz. $2.00

1K552—"Junior Assortment." 30 in. long, straight grain ash, 1 doz. natural finish lathe polished, 1 doz. natural finish lathe polished and oiled flame burnt, 1 doz. varnished and flame burnt. Assorted 3 doz. to crate. Doz. $2.25 Asst. $6.75

"PENNANT" CLUB BASEBALL BAT BAG



1K710—Holds 6 bats, made of heavy brown waterproof canvas, leather handles and leather trimmed. 1 in pkg. Each $5.00

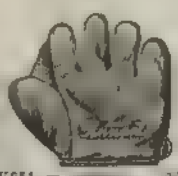
GLOVES & MITTS

"PENNANT" BRAND

Goods That Sell—Here are the gloves and mitts that will bring you repeat [illegible]. Try one yet sell it? Specialize your store as headquarters for baseball supplies

"PENNANT" FIELDERS' BASEBALL GLOVES

1K650 [illegible] Dozen [illegible] Dozen **$8.00**



1K651 — [illegible] Dozen **$9.75**

1K652 [illegible] Dozen **$12.50**

1K653 [illegible] Doz **$15.00**

1K654 [illegible] Box **$18.00**

1K670 [illegible] Each **$2.10**

1K655 [illegible] Each **$2.25**

1K656 — [illegible] Each **$2.35**

1K671 [illegible] leather web fingers prevent injury. 1 in box. Each **$2.50**

1K657 [illegible] Each **$2 75**

1K658 [illegible] padded, bump heel. 1 in box. Each **$2.85**

1K672 [illegible] fingers prevent injury. 1 in box Each **$2 95**

1K659—Full size Professional model laced heel. Genuine [illegible] white laced heel, black lacing. Correctly padded, bump heel [illegible] Pair **$3.10**

1K660 Men's full size "Professional" model. Genuine [illegible] back. Also one piece [illegible] tan leather welted seams [illegible] Each **$3.35**

1K661 Men's full size "Professional" model Genuine [illegible] back. Also one piece [illegible] black leather welted seams [illegible] dad, invisible bump forming natural pocket, correctly padded. 1 in box. Each, **$4.00**

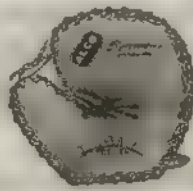
1K662 [illegible] full size, Professional" model [illegible] 'Also' leather, black leather welted seams [illegible] white leather lacing. Correctly padded luvtsible bump [illegible] natural pocket. 1 in box. Each, **$4.35**

1K661 [illegible] "Body [illegible] Model [illegible] bump. Needs no breaking in. 1 in box... Each. **$5.00**

1K681 Men's, full size Red [illegible] model laced heel [illegible] tan leather welted seams [illegible] white lacing. Correctly padded [illegible] no breaking in. 1 in box. Each, **$5.60**

"PENNANT" FIRST BASEMAN'S BASEBALL MITTS

1K680 Stanch [illegible] Each **$1.80**



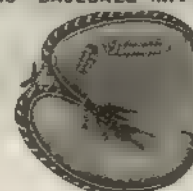
1K681 "Professional" model [illegible] and fingers, tan leather welted seams, black tape bound, leather wrist strap, nickel buckle, heavy padded. 1 in box. Each, **$2.95**

1K642 Staber model, men's full size, genuine maple tan [illegible] back tape bound, [illegible] with best quality felt, full leather lined, tan leather lacing, heavy leather wrist strap with brass buckle. 1 in box. Each, **$5.10**

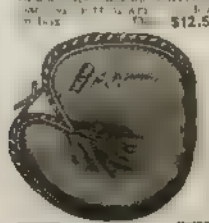
1K643 — Staber" model, men's full size genuine black horsehide [illegible] with best quality felt, full leather lined, white lacing, heavy leather wrist strap and brass buckle. 1 in box. Each, **$7.00**

"PENNANT" CATCHERS' BASEBALL MITTS

1K690 Men's [illegible] Each **$12.50**



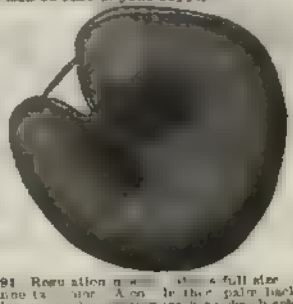
1K692 Men's full size [illegible] leather lacing, black tape bound, pair leather lacing, leather strap and nickel buckle thumb laced to side forming a natural pocket. Correctly padded with hair. 1 in box. Each, **$2.35**



1K693—Men's full size genuine black Yucatan leather palm back and fingers, wine color sides, wine color tape bound, tan leather lacing, leather strap and nickel buckle, thumb laced to side forming a natural pocket. Correctly padded. 1 in box Each **$3.25**

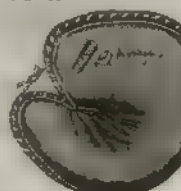
MEN'S "PENNANT" CATCHERS' MITT

A value which cannot be duplicated. Order early and be sure of your supply



1K691 Reputation [illegible] full size. Genuine [illegible] Also in [illegible] palm back and fingers, [illegible] sides, back tape bound, [illegible] strap and nickel buckle, [illegible] padded thumb and [illegible] forms a natural pocket. 1 in box Each **$2.00**

"PENNANT" CATCHERS' BASEBALL MITTS



1K694 — Men's professional model full size [illegible] horsehide palm and fingers, [illegible] sides and sides wine color tape bound, tan leather lacing, leather strap and nickel buckle, thumb laced to side. Rowdy broke. 1 in box. Each, **$5.25**

1K695 Stanch [illegible] model, full size Black Ajax leather [illegible] brown leather with [illegible] and thumbs, tan leather lacing, heavy padded [illegible] leather strap and brass buckle. 1 in box. Each, **$6.50**

PROFIT-PAYING SELLERS

You will find many interesting values in our lines of baseballs and Baseball Bats. The prices allow you good substantial profits

HOSE NOZZLES

FAMOUS GEM BRASS CONTROLLING

Throws Stream, Spray, or Can Be Shut Off Entirely.

		Per Dozen
No. 10—Diameter, ¾ Inch		$13.10

PLAIN BRASS

			Per Dozen
No. **04**—Diameter, ¾ Inch.	Length, 4 Inches		$8.60
No. **06**—Diameter, ¾ Inch.	Length, 6 Inches.	....	12.00
No. **061**—Diameter, 1 Inch.	Length, 6 Inches		15.40

BRASS SCREW TIP

			Per Dozen
No. **6** Diameter, ¾ Inch.	Length, 6 Inches..	.....	$12.00
No. **8**—Diameter, ¾ Inch.	Length, 8 Inches.	....	14.00

BRASS SCREW TIP AND COCK

			Per Dozen
No. **106**—Diameter, ¾ Inch.	Length, 6 Inches		$18.70
No. **108**—Diameter, ¾ Inch.	Length, 8 Inches.....		24.00

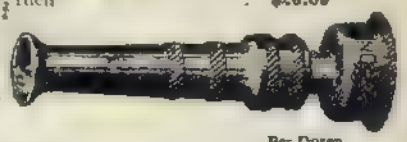
SHERMAN POLISHED BRASS

With Screw Tip and Shut Off Cock

		Per Dozen
No. 120—Diameter, ¾ Inch	.	$20.00

DIAMOND WROUGHT BRASS

Throws Stream, Spray or Can be Shut Off Entirely.



		Per Dozen
No. 140—Diameter, ¾ Inch	..	$13.10
No. 3137.....	...	12.00

One dozen in a box.

HOSE ATTACHMENTS

ROYLE

For Attaching ¾ Inch Hose.

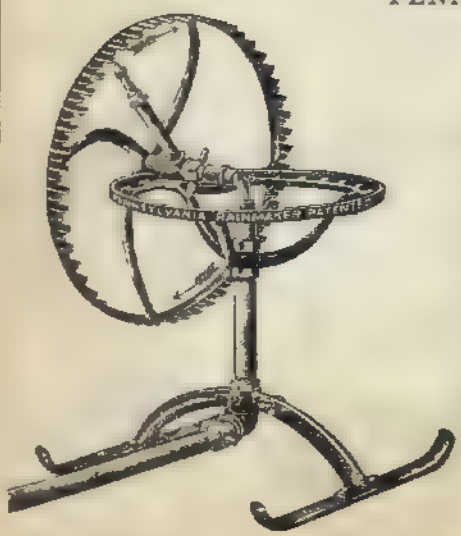
	Per Dozen
No. 11R—Small	$8.00
No. 12R—Large	8.70

One dozen in a box.

Extra Washers	Per Dozen
For No. 11R	$ .55
For No. 12R	.70

LAWN SPRINKLERS

PENNSYLVANIA RAINMAKER



This Sprinkler Waters an Area of 300 to 500 Square Yards with Drops of Spray Doesn't Flood Doesn't Swamp at the Center; Doesn't Wash Out Soil; Doesn't Chill Tender Grass or Plants, and Works Without Attention. It is Made on the Turbine Principle The Water Coming from the Nozzle Strikes the Turbine Paddles, Turning the Wheel. As the Turbine Wheel Revolves it Travels Around the Circular Base, Carrying the Jet Around Approximately Eight Times a Minute. It Distributes the Water Evenly over the Entire Area so Gradually that it Allows it to Sink into the Ground and Not Run Off into Low Places. The "Rainmaker" can be Easily Regulated to Throw Heavy or Medium Drops or Fine Spray. With a Pressure of 40 to 60 Pounds it will Distribute This Evenly from the Center to the Extreme Edge of a Circular Area 60 to 75 Feet in Diameter. Most of the Spray Travels Through the Air Much Further than is True of All Other Sprinklers. That Gives it Time to Lose the Chill so Harmful to Tender Plants. The "Rainmaker," as Regularly Made, Requires Only a ¾-in. Hose. However, Couplings are Readily Furnished in 1, 1¼, 1½, 1¾, and 2-in. Sizes. A Small Bore Nozzle is Supplied for Low Pressure There are No Cog Wheels Nor Gears to Get Out of Order and it Works Perfectly Without Attention After Starting. It Rests on Flat Runners which are Adjustable to Uneven Ground and Hillsides. They Serve as Sled Runners for Pulling the "Rainmaker" Around

	Each
No. 2000—Height, 29 Ins. Width 27 Ins. Shipping Weight About 52 Lbs. . . .	$50.00

One in a crate

PERFECTION BRAND MILK BOTTLES

SCALLOPED NECK BOTTLE

PLAIN BOTTLE

RIBBONED BOTTLE

The purchasing of milk bottles is a very important item. It therefore follows that great care should be exercised in the selection of same. In the Perfection Brand Milk Bottles we offer the trade a bottle that cannot be excelled. Read what we guarantee.

OUR GUARANTEE

First—Correct capacity, uniform weight. When you serve milk in our bottles you have no loss, you give full measure; no more no less You also have the satisfaction of knowing that your bottles comply with the city ordinances.

Second—Even distribution of glass. Superior annealing. Ninety per cent of breakage is caused by poor distribution of glass and inferior annealing. There are no thin spots in our bottles and they are perfectly annealed, which means your breakage will be reduced to a minimum.

Third—Perfectly smooth finish at top of caps. There are no sharp edges to cut brush handles, or checks in the glass to chip off, as our bottles are absolutely smooth and make a perfect fit for caps.

When Perfection milk bottles come from the machine and while they are still red hot, they are put into a lehr.

These are the most modern and scientific lehrs ever built. They are 80 feet long and equipped with pyrometers and dampers every 8 feet, by which the proper temperatures are maintained throughout the length of the lehrs. The bottles move automatically and it takes 8 hours from the time they are put in the lehr until they come out at the other end, 80 feet away, tempered and cooled, ready to be packed and shipped.

Nothing is left to chance. The entire process is automatic. The bottles cannot fail to be perfectly annealed after they are 8 hours in the lehr at the varying grades of temperature.

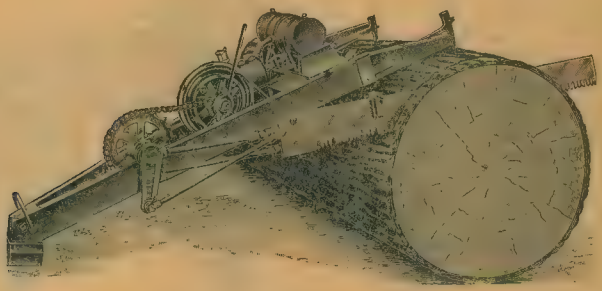
The time has arrived when the public is thoroughly aroused to the necessity of pure, clean and wholesome milk. The day when cows could be kept in filthy stables, when milk could be delivered in cans and dipped into receptacles furnished by the customer, collecting bacteria-ladened dust and dirt, is past.

The successful milkman guards against and prevents impurities entering into his product. And it is only those milk dealers who have met the demands of the time for a sanitary product who are today conducting a successful business.

Many of the states have enacted laws relating to the capacity of milk bottles and to the cleanliness and purity of milk and where states have not enacted such laws, cities and towns have ordinances bearing upon the same.

Let us send you a trial shipment of these bottles. They will give you the satisfaction and results you have been looking for.

PERFECTION PORTABLE DRAG SAW



This portable drag saw has a four horsepower, two-cycle, one-cylinder gasoline engine, fitted with a Ford piston, Ford connecting rod, and a Ford timer. The crank shaft is forged steel and carefully machined to a standard size, and is interchangeable. Special pains are taken in the machining of the cylinders, each one being carefully bored to size, then a dummy piston lapped in to make it absolutely true. After the rings are fitted the engine is set up and run under a belt from an electric motor for three hours, to insure free running and full power from the start. After the drag saw is fitted and everything tested, machine is mounted on a log and a cut made before crating. A friction clutch pulley is fitted to the flywheel of the engine, which allows the saw to be started or stopped without the stopping of the engine. The engine can also be used for auxiliary power purposes, such as running a small pump jack, feed mill or other small power equipment. This rig will cut 20 to 25 cords a day and can be operated by one man on the log and moved from log to log by two men. The friction clutch works automatically and when the saw begins to pinch it will slip and prevent breakage. When side pressure on the saw is relieved it will start again without any damage having been done.

Balance wheel of saw frame is located under main shaft on countershaft, out of the way, allowing long wood or poles to be cut to the best advantage.

SPECIFICATIONS

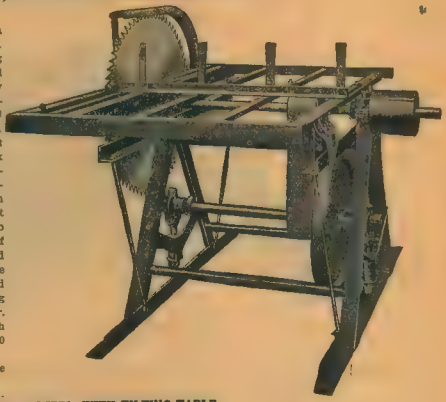
This rig is shipped complete with 6-foot saw, having 20-inch stroke, cutting through 40-inch log in 5 minutes. Ignition by 4 dry cell batteries in weather proof case. Weighs 285 lbs complete, loaded with water, oil and gasoline. Water and gasoline tank are of heavy galvanized iron. Gasoline tank holds 2 gallons, enough to cut from 16 to 20 cords.

Portable Drag Saw Outfit, complete, with 6-foot saw.....Each .....
Portable Drag Saw with Magneto and 6-foot saw..... " .....

CHALLENGE WOOD SAWING OUTFITS

NO. 62, ALL STEEL, WITH SLIDING TABLE, REPLACES NO. 41

EXTRA HEAVY DUTY

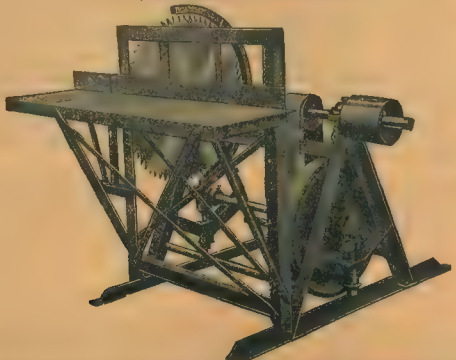


The new No. 62 all steel saw frame embodies a number of improvements over the former No. 41 which has proven to be the most popular sliding table frame ever made. The new frame is fitted with 1⅛-inch mandrel turned to 1¾-inch for saw blade. The boxes on saw arbor are of the self-adjusting type, lined with a high grade metal which makes a non-heating bearing that will last a lifetime if properly oiled. Balance wheel shaft is fitted with adjustable hangers to take up slack in belt. The balance wheel being located underneath table on independent shaft, permits of cordwood or poles being cut in any length desired, in addition to which its location gives the outfit balance and overcomes vibration common to frames of other construction. The front part of table is now entirely covered with sheet iron and has a 10-inch extension at left of blade. These are not shown in illustration. Saw blade is protected by substantial steel guard and permits of using any size blade from 18 to 30 inches in diameter. Sliding table mounted on roller bearings which slide easily over angle steel track. Weight, 450 lbs. Pulley, 6x6-inch. Speed, 1500 R. P. M.

No. 62—All steel frame, sliding table complete with 26-inch blade.

Each .....

NO. 61, ALL STEEL, WITH TILTING TABLE



The new No. 61 frame is of entirely new construction. Undoubtedly the finest tilting table frame ever put on the market. Its biggest feature is the fact that the fly wheel is below the mandrel on separate shaft, which permits of cordwood or poles being cut in any length desired. The only frame of its kind on the market.

General construction and specifications same as No. 62 sliding table frame.

Weight, 400 lbs. Pulley, 6x6-inch. Speed, 1500 R. P. M.

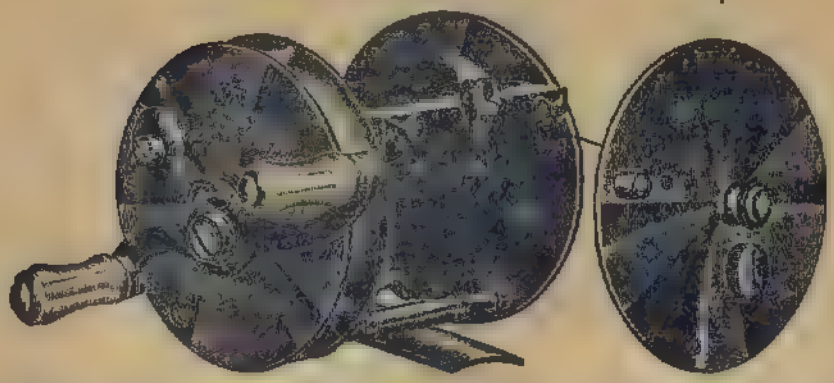
No. 61—All steel tilting table frame complete with 26-inch blade.

Each .....

FISHING REELS

QUADRUPLE MULTIPLYING

PFLEUGER-SUPREME



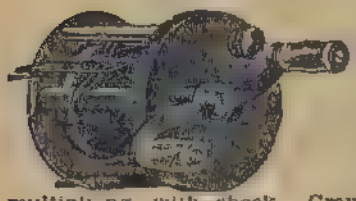
Made of finest quality nickel silver, a perfect free spool, lever; winding anti-back lash casting reel, quadruple. Adjustable front, sliding drag, steel pivots, double handle crank with pyralin amber fluted handles. The automatic level winding device is incased making it sand and waterproof, and only works when reeling in the line.

No.	1573
Capacity, yards	60 to 100
Weight each, oz	12
Each	$30.00

One reel in a chamois leather bag, packed in a chamois lined hinged cover sole leather case, with one Little Giant screw driver.

SOUTH BEND

LEVEL WINDING, ANTI-BACK LASH



French gray, mirror-like satin finish. Made of liberty silver throughout. Will not back-lash and is perfect in its level winding or spooling device. Agate jeweled spool caps of the screw-off pattern, with adjustable spring tension grip. Quadruple multiplying, with check. Crank or handle has white ivoride double grips. Complete, with a leather case, including screw-driver and practice casting weight. Absolutely guaranteed.

No.	1200
Capacity, yards	100
Weight each, ozs.	8
Each	$30.00

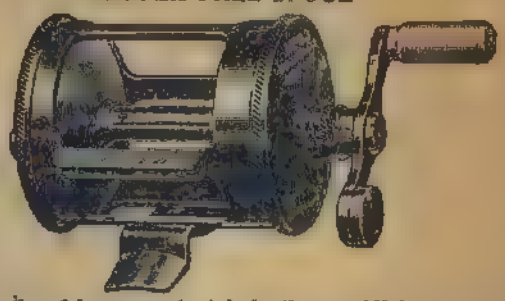
ANTI-BACK LASH

Made of 1890 solid nickel silver. Satin finish. Will not back-lash. Agate jewel, screw-off pattern spool caps, with adjustable spring tension grip. Quadruple multiplying, with adjustable click and drag. White ivoride handle. Absolutely guaranteed.

No.	1131 A
Capacity, yards	100
Weight each, ozs.	8
Each	$15.00

BLUE GRASS

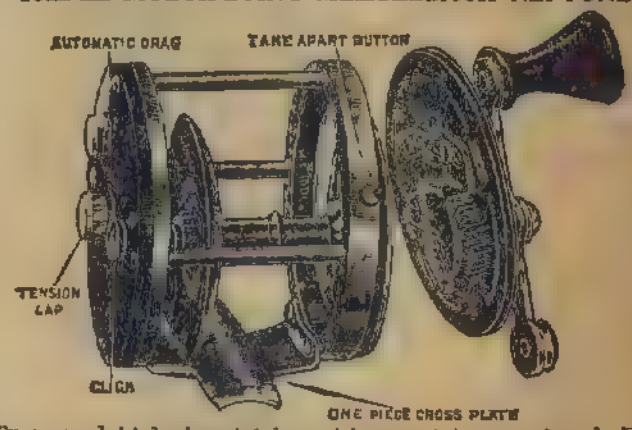
SIMPLEX FREE SPOOL



Made of brass and nickel silver. All brass parts are heavily nickel plated. Frame is one piece of seamless tubing, threaded on the interior. The gear is one piece of hard drawn brass rod; pinion is Stubs steel, cut on rod running through spool, thus making pivot and pinion one solid piece.

No.	84
Capacity, yards	100
Diameter of spool, inch	1⅝
Length of spool, inch	1⅝
Weight each, ozs.	8
Each	$17.60

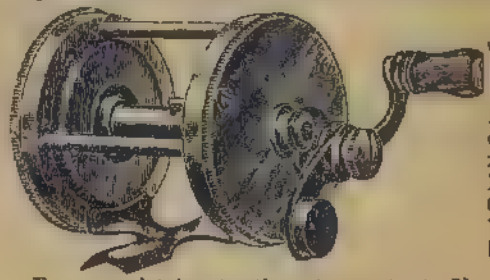
TRIPLE MULTIPLYING MEISSELBACH NEPTUNE



Free spool, high class triple multiplying take-a-part reel. Hard rubber disc. Nickel silver frame.

No.	901
Capacity, yards	80
Weight each, ozs.	11
Each	$16.50

QUADRUPLE MUTIPLYING MEISSELBACH TRI-PART



Nickel frame. Steel bronze bearings. Quadruple multiplier. Head plate is held on by screw cap, no screws being used.

No.	580
Capacity, yds.	80
Wgt each, ozs.	6¼
Each	$7.80

Free spool tripart, otherwise same as No. 580.

No.	581
Capacity, yards	80
Weight each, ozs.	6¼
Each	$10.00

All above, one in a box.

FISHING REELS

QUADRUPLE MULTIPLYING

MEISSELBACH TAKAPART

Satin finish end plates; nickel silver spool. One piece tubular frame; easily and quickly taken apart by hand. Balanced handle. Sliding click

No.	480
Capacity, yards	100
Diameter of spool, inch	1¾
Length of pinions, inch	1⅝
Weight, ozs	8
Each	$7.25

FREE SPOOL TAKAPART

Same style as No. 480, except has free spool device.

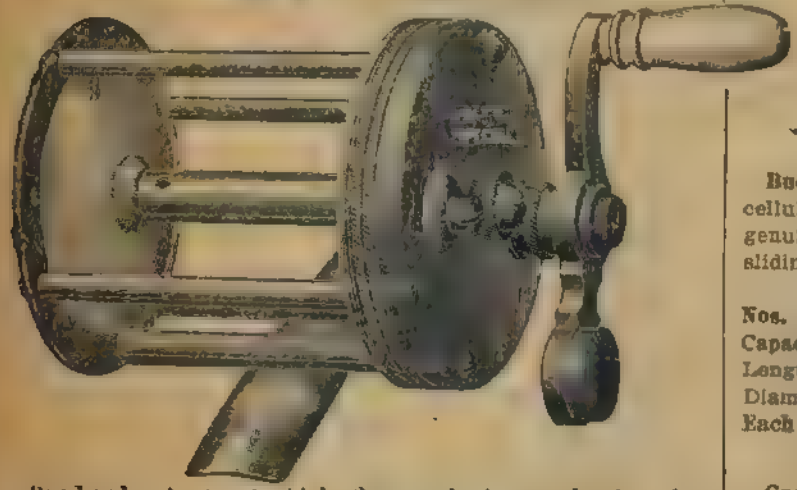
No.	481
Capacity, yards	100
Weight, ozs	8
Each	$9.00

PFLEUGER-REDIFOR

Anti-back-lash multiple casting reel. Made of nickel silver, satin finish. Genuine scarlet agate jewels, balanced crank with amber handle. Phosphor bronze bearings. Adjustable click and drag.

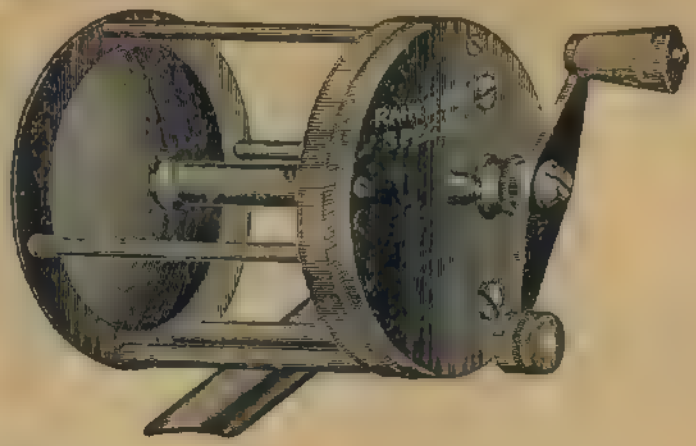
No.	1433J
Capacity, yards	65to100
Weight each, ozs.	12
Each	$18.00

Each reel in velvet lined display case with Marvel oil can enclosed.



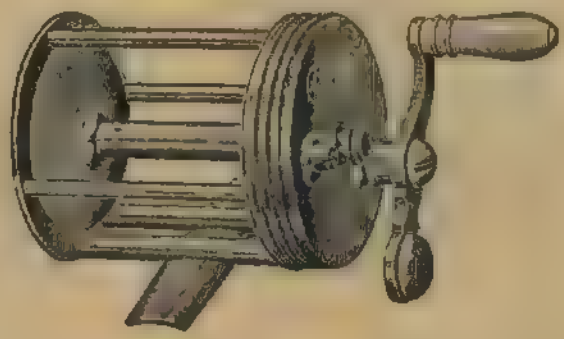
Quadruple—A strictly high class reel at a moderate price. Made of nickel silver, satin finish. Round, wide pattern. Adjustable front sliding drag. Adjustable back sliding click. Kentucky pattern cross-plate. White handle. Steel pivots and pinions. Phosphor bronze bearings. Fancy balanced crank.

Pacific Special—Capacity, yards	60
Weight each, lbs	½
Each	$10.00



Quadruple—Nickel plated. Satin finish. Round disc pattern. Bearings. Steel pinions, click and drag. Kentucky pattern cross-plate. Long spool.

Rainbow Special—Capacity, yards	60
Weight each, lbs	½
Each	$7.50



Buckeye Jeweled—Quadruple. Fancy balanced handle with celluloid ivory thumb piece; front and back oil cups, with scarlet genuine agate jewels; steel pinion and pivots; adjustable back sliding click and front sliding drag.

Nos.	633J	634J
Capacity, yards	60	80
Length of pillar, inch	1⅞	1⅞
Diameter of discs, inch	2	2¼
Each	$9.00	10.00

Grass Lake—Same style as above, but gun metal finish.

No.	983
Capacity, yards	80
Length of pillars, inch	1⅞
Diameter of discs, inch	2¼
Each	$6.50

All above, one in a box.

VISES

PHOENIX BENCH

Cast iron bodies, japanned, with polished slides, jaws and anvil faces. Polished steel screws and handles.

To screw and clamp to bench

No. 1½, without anvil; No. 3½, with chilled jaws and anvil.

Nos.	1½	1¾
Width of jaws, inch	1	1¼
Jaws open, inch	1¼	1½
Extreme length, closed, inch	3	3
Weight per dozen, lbs.	6	12
Per dozen	$24.00	26 00

Nos.	2½	2¾	3½
Width of jaws, inch	1½	1¾	2
Jaws open, inch	1¾	2	2¼
Extreme lgth, closed	4½	5½	6½
Weight per dozen, lbs	18	27	52
Per dozen	$27.50	30 00	36.00

No. 3½, one-half dozen; balance, one dozen in a package.

To screw to bench

With chilled jaws and anvil.

Nos.	3	4
Width of jaws, inch	2	2½
Jaws open, inch	2½	2¾
Extreme length, closed, inch	6½	8¼
Weight per dozen, lbs.	48	85
Per dozen	$34 00	40 00

No. 3, one-half dozen; No. 4, one-twelfth dozen in a package.

RAPID ACTING

Equipped with the new two-piece cam-operated nut of phosphor bronze. Continuous action.

No. 430S-1 has brass stop.

Nos.	430-1	430 S-1
Length of jaws, inch	7	7
Depth of jaws, inch	4	4
Jaws open, inch	20	10
Weight each, lbs.	32	32
Each	$12 00	14 00

Loose.

HAND

ALFORD

Forged steel nickel plated head. Double acting jaws. Polished hollow cocobolo handle containing 3 awls, 2 chisels, 1 reamer, 1 screw driver and 1 washer cutter with adjustable steel points.

No.	1
Length over all, inch	7
Length of handle, inch	4½
Jaws open, inch	1½
Width jaws, inch	1¼
Weight each, lbs.	1
Each	$5.00

One in a cardboard box.

MILLERS FALLS

Solid steel castings, well tempered. Jaws opened by heavy spring. Black finish, polished jaws.

No.	3
Length, inch	5
Jaws open, inch	1½
Width jaws, inch	1½
Weight per dozen, lbs.	13½
Per dozen	$25 00

One-twelfth dozen in a cardboard box.

STANDARD

Made of heavy steel castings. Polished jaw. Black finish.

Nos.	1060	1062	1064
Width of jaw, inch	1½	1¾	1¾
Length over all, inch	4	5	6
Weight per dozen, lbs	8½	10	14
Per dozen	$6.50	9 00	12.00

One dozen in a package.

CROW BARS

WEDGE POINT

PINCH POINT

Forged steel. Oil finish. Hardened points. Round body. With octagon top and square lower end.

No. 40—				
Wght each, lbs	10	12	14	16
Length, feet	4	4¼	4½	4¾
Per pound	$0.21	.21	.21	21
Wght each, lbs	18	20	22	24
Length, feet	5	5¼	5½	5¾
Per pound	$0.21	.21	.21	.21

No. 50—				
Weight each, lbs	10	12	14	
Length, feet	4¼	4¼	4½	
Per pound	$0 21	.21	.21	
Wght each, lbs	16	18	20	24
Length, feet	4¾	5	5¼	5½
Per pound	$0 21	.21	.21	.21

LINING BARS
SQUARE POINT

Octagon tool steel. Square tempered point.

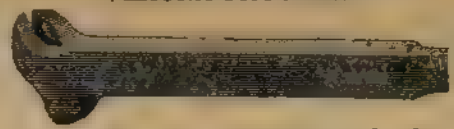
No.	80
Length, feet	5½ to 6
Weight each, lbs	20 to 30
Per pound	$0 22

TAMPING BARS

Tempered, flattened, rectangular tamper.

No.	70
Length, feet	5 to 6
Weight each, lbs	14 to 18
Per pound	$0.20

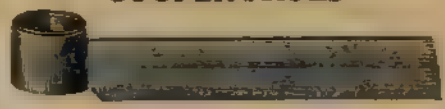
CLAW BARS
VERONA PATTERN



Octagon tool steel. Tempered claw with heel. Tempered bent pinch point at upper end. Square body with octagon top.

No.	60
Length, feet	5
Weight each, lbs.	20 to 30
Per pound	$0.25

COOPER FROES



Soft steel body. Adze eye. Special crucible steel laid cutting edge, oil tempered.

Nos.	35	37
Length, inch	12	14
Width, inch	2⅜	2⅜
Weight per dozen, lbs.	54	60
Per dozen	$22.00	23 00

COOPERS TOOLS

ADZES

Tool steel, tempered, polished and japanned. Polished applewood handle. Steel bolt extends through handle socket and handle secured at end by steel washer and nut. For tight barrel

No.	1
Width of cut, inch	3¼
Length of handle, inch	7½
Length of head, inch	9½
Weight per dozen, lbs.	45
Per dozen	$80 00

Loose.

HOOP DRIVERS

Manufactured by Mack & Co.,

Rochester, N. Y.

Forged from tool steel, natural finish. Plain hickory handle.

No.	7
Width of bit, inch	2⅜
Thickness of bit, inch.	½
Width of socket, inch.	2⅛
Height over all, inch.	16½
Weight per dozen, lbs.	20
Per dozen	$35.00

Loose.

NANTUCKET

Forged from tool steel, natural finish.

No.	9
Width of bit, inch	1¾
Thickness of bit, inch	¼
Height over all, inch	4½
Weight per dozen, lbs.	18
Per dozen	$18.00

Loose

ENGINEERS STEAM PACKING TOOLS

SCREW

Forged special tool steel. Special tempered nickel plated.

Nos.	1783	1781
Length inch	6	10
Weight per dozen, lbs.	3	4
Per dozen	$3 75	4 00

Nos.	1779	1777	1776
Length, inch	14	18	20
Weight per dozen, lbs	5	7	9
Per dozen	$5 50	6.75	8.50

One in a cardboard box.

HOOK

No.	1786
Length, inch	8
Weight per dozen, lbs.	4
Per dozen	$3 00

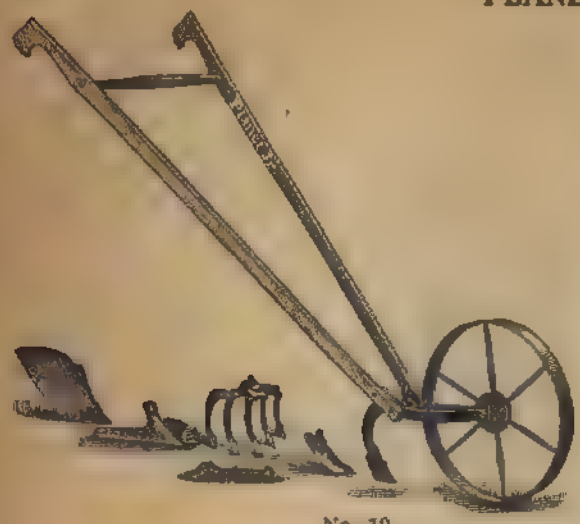
One in a cardboard box.

CURVED ONE END, HOOK OTHER END

No.	1785
Length, inch	12
Weight per dozen, lbs.	5
Per dozen	$7 00

One-half dozen in a cardboard box.

PLANET JR. GARDEN TOOLS



No. 19

SINGLE WHEEL HOE, CULTIVATOR AND PLOW

This attractive implement is especially designed for the farmer's garden work, though it offers to everyone with either a field or a garden a cheap though good and effective tool for hand wheel-hoe operations.

An adjustable malleable piece will carry all the steels that go with the machine. The wheel is high and the standard is slotted for depth regulation.

Equipped with one 2-inch cultivating tooth, one 4-inch cultivator tooth, one 6-inch sweep, one 10-inch sweep and one plow.

No.	19
Weight, lbs	22
Each	

SINGLE WHEEL HOE, CULTIVATOR AND PLOW

This tool consists of our regular No. 33 Seeder, less all seeder parts. It is one of our latest designs and a very popular low priced single wheel hoe.

No.	33
Weight, lbs	22
Each	

No. 33

No. 39

SINGLE WHEEL HOE, CULTIVATOR AND PLOW

No. 39 is a splendid combination for use in peat land and all seeded crops. The hoes have an extra wide and high shield which prevents dirt from falling back and covering small plants, and you can see just where they are cutting. They leave the ground level.

The prong teeth for fine, deeper work.

The plow for drawing furrows, for covering and for deep and thorough cultivation of large vegetables in the garden, such as beets, tomatoes, potatoes, corn, etc.

No. 39½ is identical with No. 39, except that it has one pair of peat land hoes only. Other attachments can be added as needed. A great labor-saver.

Nos.	39	39½
Weight, lbs	26	20
Each		

SINGLE WHEEL HOE, CULTIVATOR AND PLOW

This new member of the Planet Jr family is a tool that is high in quality and low in price. It sells at a figure practically as low as the very cheap cultivators of this type, but at the same time combines the Planet Jr. quality and ease of operation. Equipped with plow, wide and narrow cultivator blades, scuffle hoe and three-prong group.

No.	119
Weight, lbs	16½
Each	

No. 119, High Wheel

PLANET JR. GARDEN TOOLS

SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW

No. 16

The plow on this implement is of superior design, complete with landside and is capable of doing heavy work. Adjustment for depth is simple and can be worked instantly.

Shield hoes are finely shaped and leave the ground smooth and level; are just right for from nine up to twelve-inch rows. To avoid trash and tearing out the rows the hoes are set one behind the other and not opposite each other. Fourteen and sixteen-inch rows can be hoed at one operation with a small rake or cultivator tooth between the hoes.

The rakes are of different sizes and enable the operator to select proper widths for the various work he has at hand. These rakes are excellent for fining and leveling the ground preparatory to seed planting, etc. Rakes for narrow work are furnished, and for extremely wide work two rakes can be set side by side. Leaf guard protects plants and enables operator to work close to the row without fear of injury to the young plants.

Equipped with a set of three cultivator teeth of new design, two 6-inch hoes, one large garden plow, one 7-inch and one 4-inch rake and one improved leaf guard.

No. 13
Weight, lbs. 22
Each .....

SINGLE WHEEL HOE, CULTIVATOR AND PLOW

This implement is designed for easy, clean and perfect gardening. It is suited to all kinds of garden cultivation and all garden crops.

More and better hoeing can be done in one day with the use of this machine than can be done by three men with hand hoes.

Equipped with one pair 6-inch hoes, one plow and three cultivator teeth.

This outfit covers the implements used in a garden most satisfactorily.

Other attachments can be added at the owners wish.

No. 17
Weight, lbs. 26
Each .....

No. 17

No. 17½

SINGLE WHEEL HOE AND CULTIVATOR

This tool is built on the same lines as the Planet Jr. No. 16, with the exception that it is not equipped with rakes or plow. Furnished with a leaf lifter enabling work being done close to the rows without fear of injuring the young plants. Hoes can be adjusted to work to or from the rows and a change of wheel regulates the depth

The cultivating teeth are made of one piece and are changeable for pitch. Can be used for marking out.

Equipped with one pair 6-inch hoes, three cultivator teeth and one leaf lifter.

No. 17½
Weight, lbs. 22
Each .....

SINGLE WHEEL HOE

This implement is known as a favorite with the onion, strawberry and sugar beet growers in this country. As a single wheel hoe it is much lighter than the double, while it will do almost the same variety of work. It is especially adapted and is used mostly for work between the rows. Wheel can be attached to opposite side of arm and tool can be used to plow both sides at once, when the plants are small.

Plows, cultivator teeth and rakes may be added to the equipment of this implement although it is better and cheaper to secure what you may need in the original purchase.

Equipped with one pair of 6-inch hoes.

No. 18
Weight, lbs. 20
Each .....

No 18

PLUMB'S FARRIERS' HAMMERS

Solid Cast Steel, Full Polished.
Claws Unbreakable.

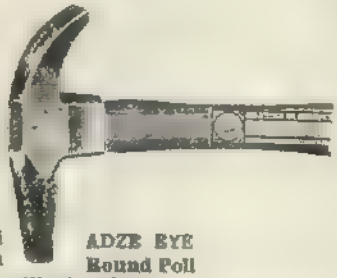
ADZE EYE

Prices on Request

Round Poll		Per Dozen
No. 181—Size 2. Weight, 10 Ozs.		
No. 182—Size 3. Weight 7 Ozs.		

Octagon Pattern		Per Dozen
No. 172—Size 3	Weight, 10 Ozs	

Half dozen in a box



Cincinnati Pattern ADZE EYE Round Poll		Per Dozen
No. 180 Size 1	Weight, 13 Ozs.	

PLAIN EYE Octagon Poll		Per Dozen
No. 175—Size 1	Weight, 7 Ozs.	

Half dozen in a box

Second Growth Straight Grained Thoroughly Seasoned, Extra White Hickory Handles. Forged from Best Refined Crucible Steel Face and Claw Carefully Hand Tempered to the Proper Degree of Hardness to Stand the Use for which the Tool is Intended. Eye of Hammer Hole and Handle made to a Gauge to Insure Perfect Fit. Each Hammer Head is Burnished Attractive Black and White Shield Label Fully Describing Quality of Tool.

C. HAMMOND & SON

Full Polished, Mirror Finish

ADZE EYE		Per Dozen
No. 210—Weight, 7 Ozs.		

PLAIN EYE		Per Dozen
No. 240—Weight, 7 Ozs.		

Half dozen in a cardboard box.

HELLER BROS.

Solid Drop Forged, Crucible Cast Steel. Perfectly Tempered. Selected, Second Growth, Hickory Handles.

ADZE EYE

Nos.	712	713	714	715	716
Wt., Including Hdles	12 ozs.	13 ozs.	14 ozs.	15 ozs	1 lb
Per Dozen					

Half dozen in a box.

ROUNDING

Nos.	702½
Weight, Including Handles	2¼ lbs.
Per Dozen	

Third dozen in a box.

RIVETING HAMMERS

Weights Do Not Include Handles

C. HAMMOND AND SON

FULL POLISHED, MIRROR FINISH

Prices on Request

Second Growth Straight Grained, Thoroughly Seasoned, Extra White Hickory Handles. Forged from Best Refined Crucible Steel. Face and Pein Carefully Hand Tempered to the Proper Degree of Hardness to Stand the Use for which the Tool is Intended. Eye of Hammer Head and Handle Made to a Gauge to Insure Perfect Fit. Standard Sizes and Dimensions. Each Hammer Handle Bears and Attractive Black and White Shield Label Fully Describing Quality of Tool

		Per Dozen
No. H230—Size 0.	Weight, 4 Ozs.	$
No. H231—Size 1.	Weight, 7 Ozs.	
No. H232—Size 2.	Weight, 9 Ozs.	
No. H233—Size 3.	Weight, 12 Ozs.	$
No. H234—Size 4.	Weight, 15 Ozs.	
No. H235—Size 5.	Weight, 1 Lb. 2 Ozs.	

Half dozen in a cardboard box.

GERMANTOWN

Extra Quality, Solid Tool Steel. Fine Finish. Extra Fine Polished Handles.

Nos.	120	121	122	123	124	125
Size	0	1	2	3	4	5
Weight	4 ozs.	7 ozs.	9 ozs.	12 ozs.	15 ozs.	18 ozs.
Per Dozen	$					

Nos. 120 to 125

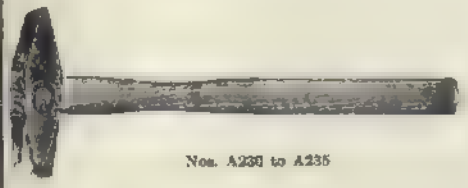
Half dozen in a box, six dozen in a case.

ATHA TOOL CO.

PLAIN EYE

Best Cast Steel, Polished. Seasoned Hickory Handles. Fully Warranted.

Nos.	A230	A231	A232	A233	A234	A235
Size	0	1	2	3	4	5
Weight	4 ozs.	7 ozs.	9 ozs.	12 ozs.	15 ozs.	1 lb. 2 ozs.
Per Dozen	$					



Nos. A230 to A235

Half dozen in a box

MAYDOLE

PLAIN EYE. POLISHED

Extra Quality, Solid Crucible Steel. Fine Finish. Hickory Handles.

Nos.	M41	M42	M42½	M43	M44
Weight	1 lb. 2 ozs.	13 ozs.	10 ozs.	7 ozs.	4 ozs.
Per Dozen	$				

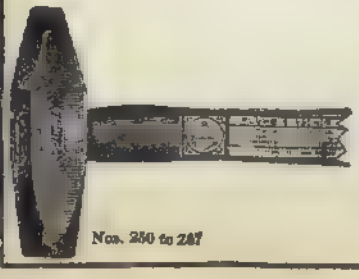
Nos. M41 to M43½

Half dozen in a box.

PLUMB

Solid Steel, Full Polished. Seasoned Hickory Handles.

Nos.	251	252	253	254
Size	1	2	3	4
Weight	7 ozs.	9 ozs.	12 ozs.	15 ozs.
Per Dozen	$			



Nos. 250 to 257

Half dozen in a box.

BLACKSMITHS' TOOLS

COLD CHISELS

Standard Octagon Best Tool Steel

No. 330½—Size, In.	⅜	½	⅝	¾	⅞	1
Length, Ins	5½	6	6½	7	8	9
Per Doz	$3.45	4.80	4.80	5.80	9.00	12.70

One dozen in a box.

Philadelphia Octagon, Best Cast Steel Warranted.

No. 322—Size In	⅜	½	⅝	¾	⅞	1
Length, Ins	5	6	6½	7	8	9
Per Doz	$3.00	4.00	5.60	8.00	11.40	15.60
	$5.10	6.80	9.35	13.60	19.35	26.50

Sizes ⅜ and ½, one dozen; ⅝ to ¾, half dozen, 1 In. quarter dozen in a box.

CIRCLE S

Octagon Best Crucible Steel.

No. 621—Size, In	⅜	½	⅝	¾	⅞	1
Length, Ins	6	6½	7	7½	8	8½
Wt., Per Doz., Abt. Lbs.	2½	4½	6½	11	14½	20
Per Doz	$2.80	3.70	4.85	7.00	9.50	12.80

One dozen in a box.

Assorted

No. 621S—Assorted Sizes ..... Per Dozen $6.40

Half dozen in a box.

SHARPEN EZY

Drop Forged, Tempered, Flat Blade. Fluted Handle. Sharpened and Ground Down

No 631—Width of Blade, In.	⅜	½	⅝	¾	⅞	1
Per Doz	$1.75	2.25	3.25	4.75	6.75	8.75
	$2.80	3.60	5.20	7.60	10.80	14.00

Sizes ⅜ to ½, one dozen; balance, half dozen in a box.

Assorted

No. 631S—Assorted Sizes ..... $4.00 Per Dozen $7.00

One dozen in a box.

HAND CHIPPING CHISELS

Swedish Tool Steel Oil Finish

No 1300—Size, In	⅜	½	⅝	¾	⅞	1
Length, Ins.	6	6½	7	7½	8	8½
Wt., Per Doz., Abt. Lbs.	2	3	4½	10	12	14
Per Doz	$3.00	3.70	4.50	6.60	8.40	10.80

Loose.

CAPE CHISELS

Swedish Tool Steel

No. 1370—Size, In	½	⅝	¾	⅞
Length, Ins	7½	7½	7½	8
Wt. Per Doz. Abt. Lbs.	8	9	10	14
Per Doz	$5.50	7.20	7.40	9.40

Loose.

CAPE CHISELS

Philadelphia Octagon, Best Cast Steel Warranted

No. 323—Width of Face, In	½	¾	¼	¼
Size, Ins.	6x½	7x¾	8x¾	8x1
Per Doz	$5.40	7.20	11.00	15.80
	$9.15	12.35	18.70	26.85

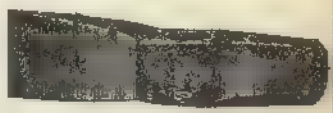
Loose

BLACKSMITHS' TOOLS

COLD CHISELS OIL FINISH

No. 1350—Plumb (Atha 1200) Size, Ins.	1	1¼	1½	1¾	1½	1¾	1¾	2
Wt., Lbs	1½	1½	2	2½	3	4	5	6
Per Doz	$9.75	11.05	12.80	16.00	18.80	25.20	31.60	37.60

HOT CHISELS OIL FINISH



No. 1355—Plumb (Atha 1300) Size, Ins.	1	1¼	1½	1¾	1½	1¾	1¾	2
Wt., Lbs	1½	1½	2	2½	3	4	5	6
Per Doz.	$9.75	11.05	12.80	16.00	18.80	25.20	31.60	37.60

Loose.

BLACKSMITHS' BUTTERISES

WROUGHT IRON, STEEL BLADE, WOOD HANDLE, 2 x 3 INCH BLADE

Per Dozen

No. 1—Japanned $11.50

No. 2—Polished 14.00

Quarter dozen in a package. Weight, per dozen, about 15 lbs

FARRIERS' PINCHERS, ETC.

HELLER BROTHERS' PINCERS

Forged from Special Crucible Steel. Oil Tempered and Polished Jaws, which are Close Biting.

	Per Dozen	
No. 612—Length, 12 Inches Half dozen in a box	$18.00	$30.00
No. 613—Length 13 Inches Ball Tip Handle Quarter dozen in a box.	$22.00	[illegible]

HELLER BROTHERS' CUTTING NIPPERS

Crucible Steel Cast. Full Polished. Heavy Steel Rivet at Joint.

	Per Dozen
No. 510—Length, 10 Inches	$32.65
No. 512—Length, 12 Inches	40.80
No. 514—Length, 14 Inches	48.90

Half dozen in a box.

ELY'S CUTTING NIPPERS

Sound Steel. Nicely Finished. Polished Jaws.

	Per Dozen
No. 206—Length, 6 Inches	$8.55
No. 208—Length, 8 Inches	9.90
No. 210—Length, 10 Inches	12.70

Half dozen in a box.

P. S. & W. SHOEING PINCERS

Solid Steel. Highly Polished Steel Jaws. Wrought Handles, Gun Metal Finish.

	Per Dozen	
No. 10—Length, 10 Inches	$10.00	$14.70
No. 12—Length, 12 Inches	11.00	16.00
No. 14—Length, 14 Inches	12.00	17.40

One in a box.

HELLER BROTHERS' J. I. C. PINCERS

Crucible Cast Steel. Polished Jaws. Heavy Steel Rivet at Joint.

	Per Dozen	
No. 614—Length, 14 Inches	$24.00	$40.80
No. 616—Length, 16 Inches	30.00	51.00

Quarter dozen in a box.

HELLER BROTHERS' HOOF PARERS

Crucible Cast Steel. Full Polished. Extra Fine Finish.

	Per Dozen	
No. 712—Length, 12 Inches	$24.00	$40.00
No. 714—Length, 14 Inches	28.80	48.00

Half dozen in a box.

ELY'S SHOEING PINCERS

Solid Steel. Oil Finish. Strongly Made.

	Per Dozen	
No. 110—Length, 10 Inches	$19.20	$11.35
No. 112—Length, 12 Inches	24.00	13.35
No. 114—Length, 14 Inches	28.80	15.55

Half dozen in a box.

CIRCLE S SHOEING PINCERS

Drop Forged from High Grade Steel. Tempered and Polished Jaws With Wire Cutters.

	Per Dozen
No. 310—Length, 10 Inches	$14.06
No. 312—Length, 12 Inches	14.70
No. 314—Length, 14 Inches	15.70

Third dozen in a box.

HATCHETS

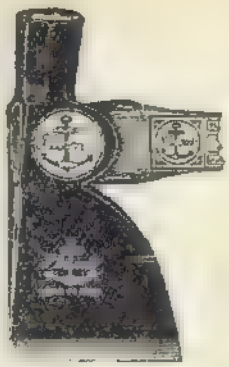
PLUMB

Hand Forged, Non-Rusting

SHINGLING

	Per Dozen
No. 2951—Size 1. 3½-Inch Cut. Weight 1 Pound 1 Ounce	$23.00
No. 2952—Size 2. 4-Inch Cut. Weight, 1 Pound 7 Ounces	24.60

Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**



HALF

	Per Dozen
No. 2961—Size 1. 3½-Inch Cut. Weight 15 Ounces	$24.60
No. 2962—Size 2. 3¾-Inch Cut. Weight, 1 Pound 3 Ounces	26.05
No. 2963—Size 3. 4-Inch Cut. Weight, 1 Pound 11 Ounces	27.50

Weights do not include handles.

LATHING

	Per Dozen
No. 2981—Size 1. 2½-Inch Cut. Weight 14 Ounces	$23.00
No. 2982—Size 2. 2¾-Inch Cut. Weight, 1 Pound 1 Ounce	24.60

Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**

CLAW

	Per Dozen
No. 2971—Size 1. 3½-Inch Cut. Weight, 1 Pound 3 Ounces	$26.05
No. 2972—Size 2. 4-Inch Cut. Weight, 1 Pound 9 Ounces	27.40

Weights do not include handles.

BROAD

	Per Dozen
No. 2991—Size 1. 4-Inch Cut. Weight, 1 Pound 8 Ounces	$36.40
No. 2992—Size 2. 4½-Inch Cut. Weight, 1 Pound 12 Ounces	33.30
No. 2993—Size 3. 5-Inch Cut. Weight, 2 Pounds 2 Ounces	37.65
No. 2994—Size 4. 5½-Inch Cut. Weight, 2 Pounds 8 Ounces	42.05
No. 2995—Size 5. 6-Inch Cut. Weight, 2 Pounds 14 Ounces	47.80

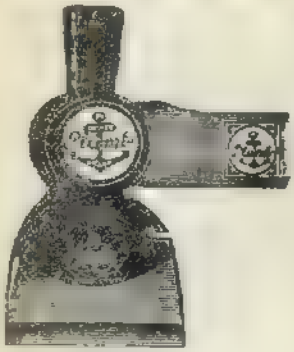
Half dozen in a cardboard box. Three dozen in a case.
Weights do not include handles.

HATCHETS

PLUMB

STANDARD BRONZED

The Standard Finish of the Standard Line of Hatchets of America. Blades Tapered for Fast Cutting, Not Built Like a Wedge Yet Stout Enough to Stand Abuse. Specially Designed Handles Turned in the Plumb Factory Insure Hand Comfort to the User



SHINGLING

Gold Bronzed

	Per Dozen
No. 591—Size 1. 3½-Inch Cut. Weight, 1 Pound 1 Ounce	$22.80
No. 592—Size 2. 4-Inch Cut. Weight 1 Pound 7 Ounces	24.00

HALF

Gold Bronzed

	Per Dozen
No. 600—Size 1. 3½-Inch Cut. Weight, 15 Ounces	$24.60
No. 601—Size 2. 3¾-Inch Cut. Weight, 1 Pound 5 Ounces	26.05
No. 602—Size 3. 4-Inch Cut. Weight, 1 Pound 11 Ounces	27.50

HALF

Gold Bronzed. Checkered Head

	Per Dozen
No. 600C—Size 1. 3½-Inch Cut. Weight, 15 Ounces	$26.85
No. 601C—Size 2. 3¾-Inch Cut. Weight, 1 Pound 5 Ounces	28.05

Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**

LATHING

	Per Dozen
No. 620—Size 0. 2-Inch Cut. Weight, 10 Ounces	
No. 621—Size 1. 2½-Inch Cut. Weight, 14 Ounces	$23.30
No. 622—Size 2. 2½-Inch Cut. Weight, 1 Pound 1 Ounce	24.60

CLAW

	Per Dozen
No. 610—Size 1 3¼-Inch Cut. Weight, 1 Pound 3 Ounces	$26.85
No. 611—Size 2 4-Inch Cut Weight, 1 Pound 9 Ounces	27.50

BROAD

Gold Bronzed. Regular Pattern. Single Bevel

	Per Dozen
No. 640—Size 1. 4-Inch Cut. Weight, 1 Pound 8 Ounces	$30.40
No. 641—Size 2. 4½-Inch Cut. Weight, 1 Pound 12 Ounces	33.30
No. 642—Size 3. 5-Inch Cut. Weight, 2 Pounds 2 Ounces	37.05
No. 643—Size 4. 5½-Inch Cut. Weight, 2 Pounds 8 Ounces	82.05
No. 644—Size 5. 6-Inch Cut. Weight, 2 Pounds 14 Ounces	47.50

Half dozen in a cardboard box. Three dozen in a case.

Weights do not include handles.

FARRIERS' HAMMERS

ATHA TOOL CO.

ADZE EYE

Octagon Pattern

Per Dozen

No. 180—Wt., 7 Ozs.. $19.95

GERMANTOWN

Warranted Steel

ADZE EYE

Per Dozen

No. 92—Wt., 9 Ozs. $19.95

MAYDOLE

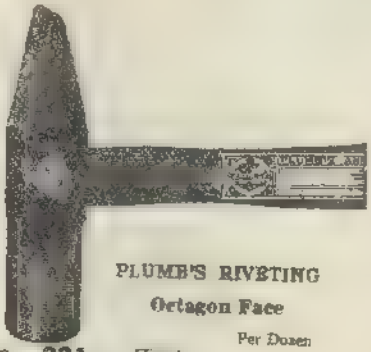
Warranted Steel

ADZE EYE

Nos.	253	252	251
Weight	8 ozs.	10 ozs	12 ozs
Per Dozen	$18.00	20.00	21.95

Half dozen in a box. Weights do not include handles

TINNERS' HAMMERS



PLUMB'S RIVETING

Octagon Face

Per Dozen

No. 221 — Highly Polished. Size 2 Weight, 12 Ozs $17.00

PLUMB'S PANEING

Square Face

Per Dozen

No. 231 — Highly Polished. Size 2 Weight, 12 Ozs.. $17.00

Half dozen in a box. Weights do not include handles

BRICKLAYERS' HAMMERS

Prices on Request

C. HAMMOND & SON

FULL POLISHED, MIRROR FINISH

Second Growth, Straight Grained, Thoroughly Seasoned, Extra White Hickory Handles Forged from Best Refined Crucible Steel. Face and Pein Carefully Hand Tempered to the Proper Degree of Hardness to Stand the Use for which the Tool is Intended. Eye of Hammer Head and Handle made to a Gauge to Insure Perfect Fit. Standard Sizes and Dimensions. Each Hammer Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool.

Per Dozen

No. 360—Weight, 1 Lb. 8 Ozs. $

No. 361—Weight, 2 Lbs. $

Per Dozen

No. 362—Weight, 2 Lbs 8 Ozs. $

Third dozen in a cardboard box Weights do not include handles.

BLACK HAWK

ADZE EYE

Hickory Handle Solid Forged Steel Oil Finish Length, Over All 12 Inches Length of Head 9½ Inches. Size of Face, 1¼ x 1¼ Inches Polished Face, Weight, with Handle, 2¼ Lbs.

Each

No. 46 20—. . . . . $

BRICKLAYERS' HAMMERS

PLUMB

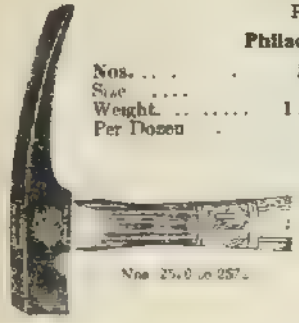
Prices on Request

Highly Polished.

PLAIN EYE

Philadelphia Pattern

Nos.	2570	2571	2572
Size	1	2	3
Weight	1 lb. 8 ozs.	2 lbs.	2 lbs. 8 ozs.
Per Dozen	$		



Nos. 2570 to 2572

ADZE EYE

Nos.	460	461	462
Size	0	1	2
Weight	1 lb. 2 ozs.	1 lb. 8 ozs.	2 lbs
Per Dozen	$		

Nos. 460 to 462

Half dozen in a box

SHOEMAKERS' HAMMERS

EAGLE TOOL CO.

Solid Cast Steel. Polished. Japanned Neck. Plain Handle

Per Dozen

No. 0454—Length, Over All, 9½ Inches.
Diameter of Face, 1¼ x 1¼ Inches
Weight, 13 Ozs .. .. $

PLUMB

Nos.	454	455
Size	1	
Weight, without Handles	13 ozs	15 ozs
Per Dozen	$	

Half dozen in a box

C. HAMMOND & SON

HIGHLY POLISHED

Hickory Handles

A Forged Hammer with Soft Steel Body. Tool Steel Face, which Overcomes the Danger of Breaking at Neck. Eye of Hammer Head and Handle made to a Gauge to Insure Perfect Fit. Hand Tempered.

Per Dozen

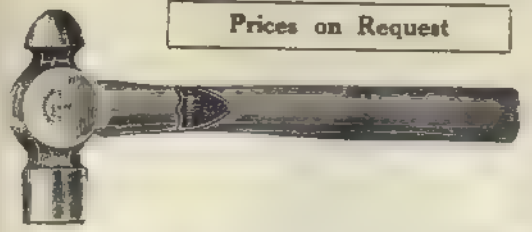
No. 322—Size 00 Weight, 9 Ozs. . $
No. 323—Size 0. Weight, 11 Ozs. .....
No. 324—Size 1. Weight, 13 Ozs .. ..

Per Dozen

No. 325—Size 2 Weight, 15 Ozs. . $ $
No. 326—Size 3 Weight, 1 Lb 1 Oz... .

Half dozen in a cardboard box. Weights do not include handles

MACHINISTS' BALL PEIN HAMMERS



Prices on Request

C. HAMMOND AND SON

POLISHED. MIRROR FINISH NECKS BLACK.

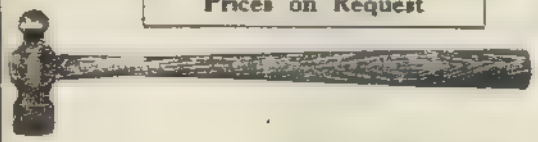
Thoroughly Seasoned, Extra White Hickory Handles

Forged from Best Refined Crucible Steel. Tempered. Eye of Hammer Head and Handle made to a Gauge to Insure Perfect Fit. Each Hammer Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool.

		Per Dozen
No. 280C	Size 0000 Weight, 6 Ozs	$
No. 280B	Size 000 Weight, 8 Ozs	
No. 280A	Size 00. Weight, 12 Ozs.	
No. 280	Size 0 Weight, 1 Lb.	

		Per Dozen
No. 281	—Size 1. Weight, 1 Lb. 4 Ozs.	$
No. 282	—Size 2. Weight, 1 Lb 8 Ozs.	
No. 283	—Size 3 Weight, 1 Lb. 12 Ozs.	
No. 284	—Size 4 Weight, 2 Lbs	

Third dozen in a cardboard box. Weights do not include handles



Prices on Request

MAYDOLE

Extra Quality, Solid Crucible Cast Steel. Fine Finish. Hickory Handle					
Nos.	**71**	**72**	**73**	**74**	**75**
Weight, Less Handle	30 Ozs	24 Ozs	20 Ozs	16 Ozs.	13 Ozs
Per Dozen	$				

Half dozen in a box

ATHA TOOL CO.

FIRST QUALITY FORGED CRUCIBLE STEEL. BLACK FINISH.

Round Poll. Octagon Handle.

White Hickory Handles

Nos.	**307**	**308**	**309**	**310**	**311**	**312**	**313**	**314**
Size	0000	000	00	0	1	2	3	4
Weight	6 Ozs.	8 Ozs	12 Ozs	1 Lb	1 Lb 4 Ozs.	1 Lb 8 Ozs.	1 Lb 12 Ozs.	2 Lbs
Per Doz.	$18.00	18.00	18.00	18.75	20.00	21.00	22.00	24.00

Half dozen in a box. Weights do not include handles.

PLUMB

OCTAGON PATTERN HIGHLY POLISHED

		Per Dozen
No. 370	—Size 0000 Weight, 6 Ozs	$17.50
No. 371	—Size 000. Weight, 8 Ozs	17.50
No. 372	Size 00. Weight, 12 Ozs	17.50
No. 373	Size 0. Weight, 1 Lb	18.25
No. 374	Size 1 Weight, 1 Lb 4 Ozs	18.75
No. 375	Size 2 Weight, 1 Lb 8 Ozs	21.20
No. 376	—Size 3 Weight, 1 Lb. 12 Ozs	22.65
No. 377	Size 4. Weight, 2 Lbs.	24.10
No. 378	—Size 6. Weight, 2 Lbs. 8 Ozs.	27.50

Third dozen in a box. Six dozen in a case. Weights do not include handles.

GERMANTOWN

Nos.	**157**	**158**	**159**	**160**	**161**	**162**	**163**	**164**
Size	0000	000	00	0	1	2	3	4
Weight	6 Ozs	8 Ozs.	12 Ozs.	1 Lb.	1 Lb. 4 Ozs.	1 Lb. 8 Ozs.	1 Lb 12 Ozs	2 Lbs.
Per Dozen	$17.50	17.50	17.50	18.25	19.75	21.20	22.65	24.10

Third dozen in a box Six dozen in a case. Weights do not include handles.

PLOW OR ENGINEERS' HAMMERS

C. HAMMOND AND SON

Prices on Request

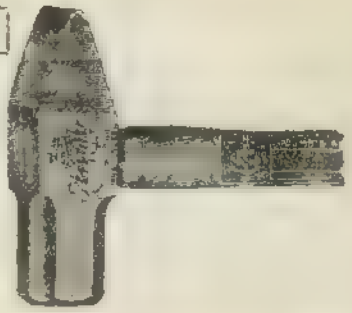
FULL POLISHED, MIRROR FINISH

Thoroughly Seasoned, Extra White Hickory Handles. Forged from Best Refined Crucible Steel. Hand Tempered. Eye of Hammer Head and Handle made to a Gauge to Insure Perfect Fit. Each Hammer Handle Bears an Attractive Black and White Shield Label, Fully Describing Quality of Tool.

			Per Dozen
No. H261	Size 1	Wt., 1 Lb. 12 Ozs.	$
No. H262	Size 2.	Wt., 2 Lbs. 4 Ozs.	
No. H263	Size 3.	Wt., 2 Lbs. 12 Ozs.	
No. H264	Size 4	Wt., 3 Lbs. 4 Ozs.	

Thirty dozen in a cardboard box.

PLUMB



SINGLE FACE, HIGHLY POLISHED

			Per Dozen	
No. 261	Size 1	Wt., 1 Lb. 10 Ozs...	$	$
No. 263	Size 3	Wt., 2 Lbs. 8 Ozs.		
No. 264	Size 4.	Wt., 3 Lbs. . . .		

Weights do not include handles

CAST IRON HAMMERS

PLAIN EYE AND POLL

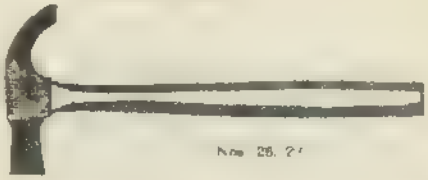
Prices on Request

No.	**26**	Ladies' Pride.	
		Per Dozen	
		Length, Over All,	
		Wt., Per Doz., Abt. 4½ Lbs.	$

Half dozen in a box.

BRAD OR CLAW

Varnished Handles

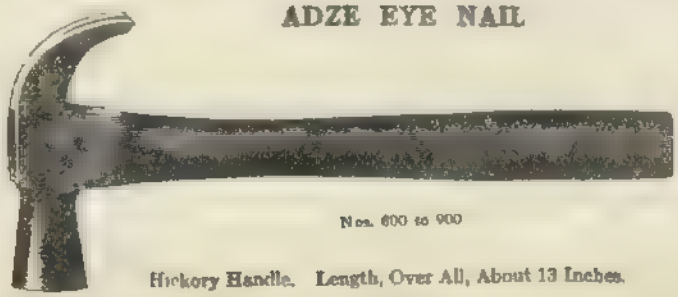


Nos. 28, 29

		Per Dozen
No. 29—Nickeled.	Length, Over All, 11½ Ins.	
	Wt., Per Doz., Abt. 6 Lbs...	$

Half dozen in a box.

ADZE EYE NAIL



Nos. 600 to 900

Hickory Handle. Length, Over All, About 13 Inches.

		Per Dozen
No. 600—Gold Bronze.	Polished Head. Weight, About 22 Ozs. Stained Handle	$
No. 75A—Full Polished.	Weight, About 14 Ozs. Plain Handle	
No. 900—XLCR.	Nickeled. Weight, About 22 Ozs. Varnished Handle	

Half dozen in a box. Weights do not include handles.

HATCHETS

PLUMBS

Made from one piece hand forged crucible steel, head and bit tempered. Manganized handle. Ground sharp, ready for use. Gun metal finish.

BROAD OR BENCH

Gun metal finish.

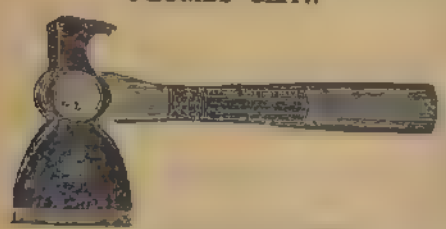
Nos.	2991	2992	2993	2994
Width of cut, inch	4	4½	5	5½
Weight per dozen, lbs	27	31	36	44
Per dozen	$33.50	40.50	46.00	49.00

PLUMBS FLOORING

Gun metal finish. Adapted for nailing flooring.

Nos.	2985-1	2986-2
Width of cut, inch	3¾	4¼
Weight per dozen, lbs	24	31
Per dozen	$45 00	49.50

PLUMBS CLAW



Gun metal finish

Nos.	2971	2972
Width of cut, inch	3½	4
Weight per dozen, lbs	22	29
Per dozen	$36 00	86 75

CUB SHINGLING

Natural finish.

Nos.	CS1	CS2
Width of cut, inch	3½	4
Weight per dozen, lbs	23	28
Per dozen	$22.50	24.00

CUB

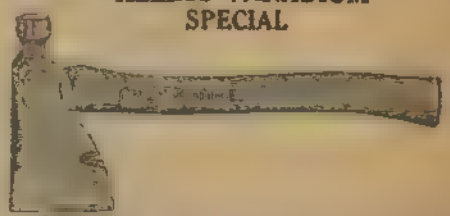
A good serviceable tool at a moderate price. Hand forged crucible steel. Tempered heads and bits. Ground sharp ready for use. Hickory handles.

BROAD OR BENCH

Natural finish.

Nos.	Single Bevel CB2	CB3	CB4	Double Bevel CBD1	CBD2
Width of cut, inch	4½	5	5½	4	4½
Weight per dozen, inch	34	40	50	18	20
Per dozen	$40 50	46 50	49 50	33 50	40 50

KELLYS VANADIUM SPECIAL

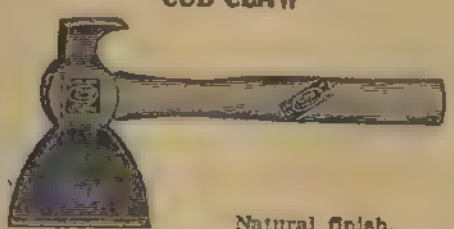


Made from Vanadium steel. Hexagon neck, round poll, extra thin blade, special shapes, swelled end handle. Full polished and engraved.

No.	K 5
Width of cut, inch	3½
Weight per dozen, lbs	24
Per dozen	$36 00

One in carton.

CUB CLAW



Natural finish.

Nos.	CC1	CC2
Width of cut, inch	3½	4
Weight per dozen, lbs	24	32
Per dozen	$26 00	28 50

STERLING SHINGLING

Converted steel. Hardened and polished bit. Bronzed body. Hickory handle.

Nos.	SS1	SS2
Width of cut, inch	3½	4
Weight per dozen, lbs	19	23
Per dozen	$16 00	16 50

STERLING CLAW

Converted steel. Hardened and polished bit. Bronzed body. Hickory handle. For light use.

Nos.	SC1	SC2
Width of cut, inch	3½	4
Weight per dozen, lbs	20	23
Per dozen	$16 75	17 00

CAST IRON SHINGLING

Cast iron. Bronzed painted. Polished bit. Common finish. Hardwood handle.

Nos.	K 1	K 2
Width of cut, inch	2¼	3¼
Weight per dozen, lbs	12	15
Per dozen	$6.50	8 00

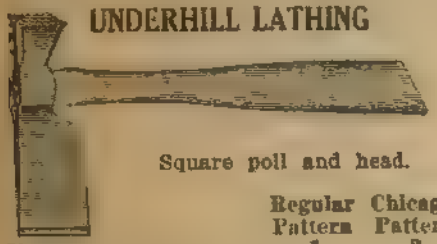
All above, one-half dozen in a cardboard box

LATHING AND BOX HATCHETS

UNDERHILL BROS. GENUINE

The genuine Underhill Bros. Boston Star lath hatchets are all made by hand from the best quality of steel, tempered and full polished in charcoal fires by experienced workmen. Properly shaped, selected hickory handles. Warranted.

UNDERHILL LATHING



Square poll and head.

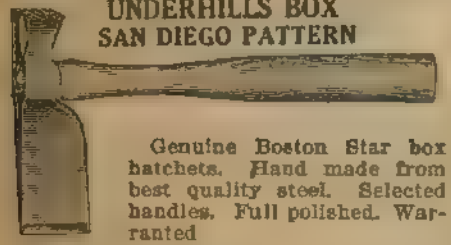
	Regular Pattern	Chicago Pattern
Nos.	1	2
Width of cut, inch	2	2
Number of points	64	81
Size of head, inch	1¼x1¼	1¼x1¼
Weight per dozen, lbs	16	17
Per dozen	$32.00	$3.50

SAYRES LATHING
CHICAGO PATTERN

Extra quality solid forged steel. Full polished thin blade. Extra tempered hardened poll. High grade hickory handle. Milled head. Six gauges ¼ to 5½ inches. With gauge.

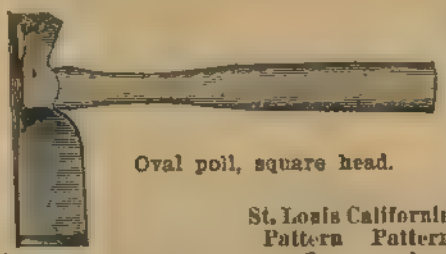
No.	44
Width of cut, inch	2¼
Number of scores	9
Size of head, inch	1⅝x1⅛
Weight per dozen, lbs	17
Per dozen	$42 00

UNDERHILLS BOX
SAN DIEGO PATTERN



Genuine Boston Star box hatchets. Hand made from best quality steel. Selected handles. Full polished. Warranted

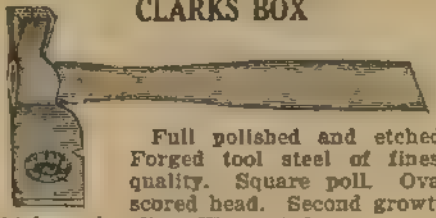
Width of cut, inch	3
Number of scores	13
Weight per dozen, lbs.	16
Per dozen	$33.50



Oval poll, square head.

	St. Louis Pattern	California Pattern
Nos.	3	4
Width of cut, inch	2	2
Number of points	100	144
Size of head, inch	1¼x1¼	1¼x1¼
Weight per dozen, lbs.	18	15
Per dozen	$37 00	$5.00

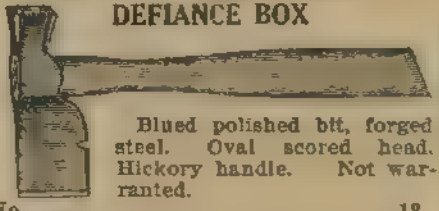
CLARKS BOX



Full polished and etched. Forged tool steel of finest quality. Square poll. Oval scored head. Second growth hickory handle. Warranted.

Nos.	1	2	3
Number of scores	13	15	15
Length of blade, inch	3	3	4
Width of cut, inch	2⅛	2⅛	2⅛
Wt dz. with hdle, lbs	15	17	18
Per dozen	$38 00	39.50	40.00

DEFIANCE BOX



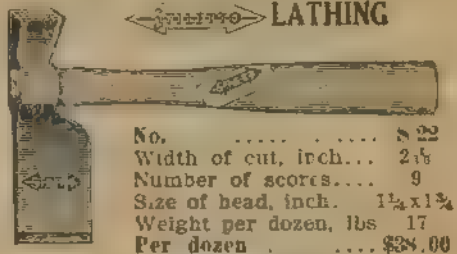
Blued polished bit, forged steel. Oval scored head. Hickory handle. Not warranted.

No.	18
Number of scores	13
Width of cut, inch	2⅛
Weight per dozen, with handle, lbs	16
Per dozen	$17.25

All above, one-half dozen in a cardboard box.

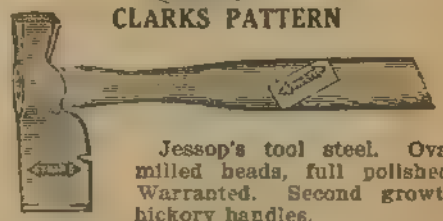
Jessop's tool steel, full polished solid forged body and bit, hardened poll, extra tempered bit, sharpened ready for use. Milled heads. Second growth hickory handles with heavy taper, giving firm, non-tiring grip. Warranted.

LATHING



No.	8 22
Width of cut, inch	2⅛
Number of scores	9
Size of head, inch	1¼x1¾
Weight per dozen, lbs	17
Per dozen	$38.00

BOX
CLARKS PATTERN



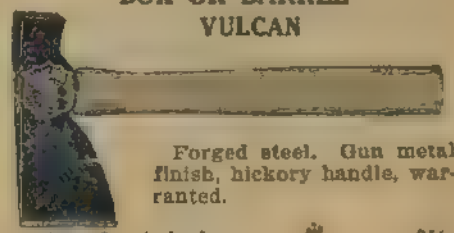
Jessop's tool steel. Oval milled heads, full polished. Warranted. Second growth hickory handles.

No. S9, for light nails for orange boxes and light crating.

No. S99, for vegetable cases and general produce trade.

Nos.	S 9	S 99
Width of cut, inch	2	2
Size of head, inch	1¼x1¼	1⅜x1⅜
Length of blade, inch	3	3
Number of scores	15	15
Weight per dozen, lbs.	15	17
Per dozen	$37 50	$9.75

BOX OR BARREL
VULCAN



Forged steel. Gun metal finish, hickory handle, warranted.

Width of cut, inch	2¼
Size of head, square inch	⅞
Number of scores, inch	49
Weight per dozen, with handle, lbs	15
Per dozen	$15 50

NAIL STRIPPERS

BARRONS

DICK SMITH

Operator does not have to head the nails. One nail head overlaps the other and the operator can hold 8 or 10 nails in his hand at a time, and can nail uninterruptedly. Can make from 50 to 100 boxes more per day.

When not in use they can be folded up and have the appearance of a suitcase.

BARRONS

Size closed, 19x11x4 inches.

For 3d 4d and 5d nails; weight, 9 lbs. ..... Each $10 00
For 4d 5d and 6d nails; weight, 9 lbs. ..... " 10.00

DICK SMITH

Size closed, 19½x10½x5½ inches.

One size only. Adjustable to use for 3d to 10d nails, weight, 10 lbs. ..Each $13.50

HATCHETS

PRODUCE DEALERS'

Best Quality Solid Tool Steel Carefully Tempered and Hardened, Shaped and Driven so as to Give Perfect Hang and Balance 2 In. Cut. Lgth Over All, 10½ Ins.

No. 862

BEATTY

Per Dozen

No. 862—Hickory Handle Wt., Each, with Handle, 1 Lb. **$24.60**

Half dozen in a box; four dozen in a case

No. 280

GERMANTOWN

Per Dozen

No. 280—Second Growth Hickory Handle. Wt., Each, with Handle 1 Lb. **$27.60**

Half dozen in a box; six dozen in a case

No. 285

BARREL

GERMANTOWN

Warranted Cast Steel Carefully Tempered and Ground. Solid Hardened Head. Blue Body Polished Bit. Checkered Head. ½-In Cut. Wt., Per Doz. Ab 8 Lbs.

Per Dozen

No. 285—White Hickory Handles **$27.50**

Half dozen in a box, six dozen in a case

BEATTY

Warranted Cast Steel. Carefully Tempered. Blue Finish. Polished Bit and Head. Second Growth Hickory Handles

Per Dozen

No. 260—Size 0, 2-In. Cut. Wt., Per Doz., Ab. 16 Lbs. **$24.00**

No. 261—Size 1, 2½-In. Cut. Wt., Per Doz. Ab 17 Lbs **25.50**

No. 262—Size 2, 2¾-In. Cut. Wt., Per Doz., Ab. 18 Lbs. **26.50**

Half dozen in a box; six dozen in a case

Nos. 260 to 262

CUSHING SPECIAL

Hand Forged. Full Polished. Style and Shape of Regular Lath Checkered Head, Deep Etching.

Per Dozen

No. 850—Size 0 2-In Cut **$30.20**

Half dozen in a box.

HATCHETS

FRUIT OR LATH BOX

(FOR ORANGE BOXES)

PLUMB'S ANCHOR BRAND

Highly Polished Oval Scored Head that Grips

Weight, Without Handle, 12 Ozs.

Per Dozen

No. 3010 $ **$42.18**

Weight, Without Handle, 16 Ozs.

Per Dozen

No. 3011 $ **$43.45**

CARPENTERS' ADZES

No. 290

BEATTY HALF HEAD

Extra Quality Blue Finish

Per Dozen

No. 290—3 to 4½ In Cut $ **$48.25**

Half dozen in a box.

No. 740

PLUMB

First Quality Bronze Finish

Per Dozen

No. 740—3½ to 4½ In. Cut **$47.40**

SLATERS' TOOLS

RIPPERS

Forged Iron and Steel. Lgth. of Blade, 25½ Ins. Width, 1½ Ins. Black Finish and Polished. 5½-In Heavy Handle

Each

No. 22 **$6.00**

STAKES

No. 18

Forged Iron and Steel. Lgth., 18 Ins Width, 6½ Ins. Point Part Black Finish and Polished.

Each

No. 18 **$3.60**

HAMMERS

No. 12

Best Steel Polished and Black. With Claw. Lgth. of Hammer, 9½ Ins. Lgth. Over All, 12 Ins. 4½-In. Leather Handle.

Each

No. 12 **$3.40**

PUNCHES

No. 4½

Tool Steel. Black Finish, with Polished Point and Head. Octagon Pattern. Lgth, 4½ Ins.

Each

No. 4½ **$.60**

Loose.

NAIL HAMMERS

Weights Do Not Include Handles

GERMANTOWN

Any Tool Stamped "Germantown" is Closely Inspected and Severely Tested Before Leaving Factory

Warranted Solid Tool Steel Fine Finish Selected, Well Seasoned Wood Handles

Hickory Handle

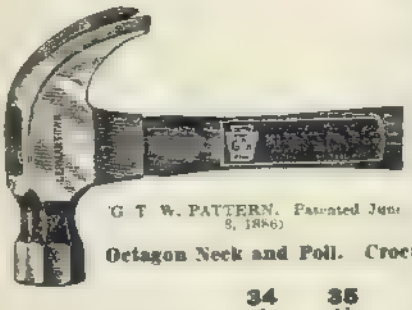
ADZE EYE

Nos.	21	22	23	24
Size	2	1½	1	0
Weight	15 ozs.	1 lb 2 ozs.	1 lb 4 ozs.	1 lb 12 ozs.
Per Dozen	$22.40	23.70	25.00	35.50

BELL FACE ADZE EYE

Nos.	30	31	32	33
Size	2	2	1½	1
Weight	8 ozs.	14 ozs.	1 lb 1 oz.	1 lb 4 ozs
Per Dozen	$21.05	23.40	22.95	20.05

Half dozen in a box



'G T W. PATTERN. Patented June 8, 1886)

Octagon Neck and Poll. Crocus Finish

ADZE EYE
Hickory Handle

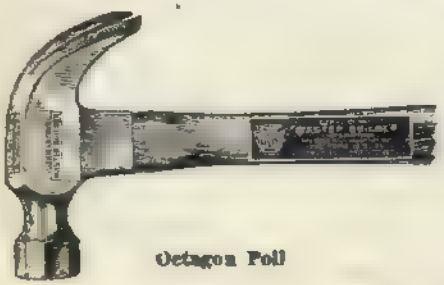
Nos.	34	35	36
Size	3	1½	1
Weight	11 ozs.	1 lb	1 lb 4 ozs
Per Dozen	$26.30	27.00	28.85

Round Neck. Octagon Poll. Nickel Plated

Mansana De Jaiba Handle.

Nos.	40	41
Size	3	1½
Weight	11 ozs.	1 lb
Per Dozen	$32.50	23.75

Half dozen in a box



Octagon Poll

"MASTER BUILDER" ADZE EYE
Hickory Handle

Prices on Request

Crocus Finish. Enameled Neck

Hammer-forged from Master Steel. The Octagon Handle Insures Better Grip and Prevents Tool from Turning. Nail Holding Attachment in the Claw for Overhead Work.

Nos.	745	746
Size	3	1½
Weight	11 ozs.	1 lb.
Per Dozen	$34.20	35.50

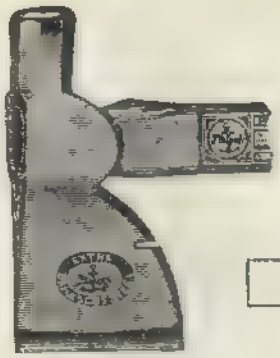
Nos.	726	727
Size	1½	1
Weight	1 lb.	1 lb 2 ozs.
Per Dozen		

Half dozen in a box.

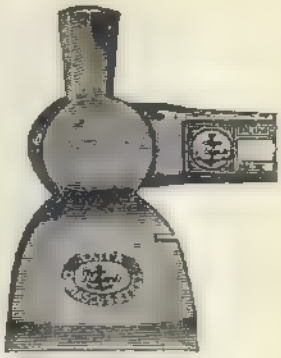
HATCHETS

PLUMB

Forged Steel. Full Polished



Prices on Request



Octagon Neck and Poll

HALF	Per Dozen
No. 490—Size 1. 3½-Inch Cut. Weight, 15 Ounces	
No. 491—Size 2. 3½-Inch Cut. Weight, 1 Pound 5 Ounces	
No. 492—Size 3. 4-Inch Cut. Weight, 1 Pound 11 Ounces	

SHINGLING	Per Dozen
No. 480—Size 1. 3½-Inch Cut. Weight, 1 Pound 1 Ounce	
No. 481—Size 2. 4-Inch Cut. Weight, 1 Pound 7 Ounces	
No. 482—Size 3. 4½-Inch Cut. Weight 1 Pound 13 Ounces	

Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**

Fancy Pattern. Adze Eye, Bell Poll

HALF	Per Dozen
No. 530—Size 1. 3½-Inch Cut. Weight 14 Ounces	$38.20
No. 531—Size 2. 3½-Inch Cut. Weight, 1 Pound 2 Ounces	39.50

SHINGLING	Per Dozen
No. 520—Size 1. 3½-Inch Cut. Weight, 1 Pound	$40.00

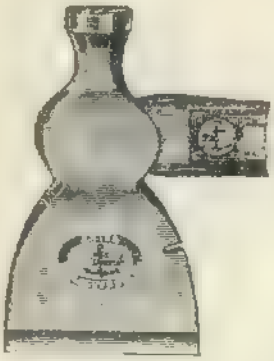
Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**

HATCHETS

Prices on Request

PLUMB

Forged Steel. Octagon Pattern

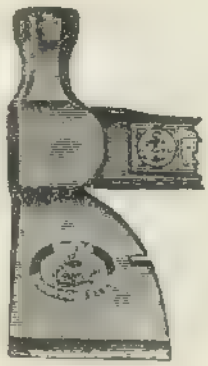


Octagon Poll. Nickel Plated

SHINGLING	Per Dozen
No. 2260 –Size 1 3½-Inch Cut Weight, 1 Pound 3 Ounces	$
No. 2261 Size 2 4-Inch Cut Weight, 1 Pound 8 Ounces	

HALF	Per Dozen
No. 2270 Size 1 3½-Inch Cut. Weight, 1 Pound 1 Ounce	$
No. 2271 Size 2 3¾-Inch Cut Weight, 1 Pound 6 Ounces	

Half dozen in a cardboard box. Six dozen in a case **Weights do not include handles.**



Octagon Poll. Full Polished

SHINGLING	Per Dozen
No. 2265—Size 1. 3½-Inch Cut. Weight 1 Pound 3 Ounces	$
No. 2266 Size 2. 4-Inch Cut. Weight, 1 Pound 8 Ounces	

HALF	Per Dozen
No. 2275—Size 1 3½-Inch Cut Weight, 1 Pound 1 Ounce	$
No. 2276 –Size 2. 3¾-Inch Cut. Weight, 1 Pound 6 Ounces	

Half dozen in a cardboard box. Six dozen in a case. **Weights do not include handles.**

HATCHETS

PLUMB LATHING

Full Polished Forged Steel

PHILADELPHIA PATTERN

Per Dozen

No. 570—Size 1
2-Inch Cut.
Weight, 10 Ounces. . . $36.80

Half dozen in a wood box

Per Dozen

No. 560—Size 2
2½-Inch Cut.
Weight 1 Pound.... $40.00

Half dozen in a wood box.

UNDERHILL PATTERN

Per Dozen

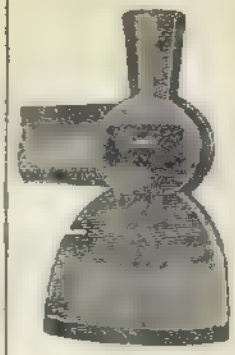
No. 1960 2¼-Inch Cut. Checkered 8 Rows. Weight, 13 Ounces.. ..... $38.50

No. 1961—2½-Inch Cut. Checkered 9 Rows. Weight, 15 Ounces. 43.50

Half dozen in a wood box.

Weights do not include Handles.

BEATTY



First Quality Solid Cast Steel
Blue Finish with Polished Eye and Bit.
White Hickory Handle

SHINGLING

Nos	231	232	233
Sizes	1	2	3
Cut, Inches..	3½	3¾	4
Weight..	1¼	3½	4½
Per Dozen..	$19.50	21.00	

Half dozen in a cardboard box.
Four and six dozen in a case.

HALF

Nos..... ..	221	222	223	224
Sizes	1	2	3	4
Cut, Inches	3½	3¾	4¼	4½
Weight	1¼	1½	1¾	2
Per Dozen	$22.50	24.00	25.00	28.00

Half dozen in a cardboard box
Four and six dozen in a case.

LATHING

Per Dozen

No. 251 — Size 1
2½-Inch Cut
Weight, ½ pound $22.00

No. 252 — Size 2
2½-Inch Cut
Weight, 1 pound. 24.00

Half dozen in a cardboard box.
Four and six dozen in a case

BEATTY BROAD

Per Dozen

No. 271—Size 1. 4-In. Cut. Wt., 2⅓ lbs.
No. 272—Size 2. 4½-In. Cut. Wt., 2⅔ lbs.
No. 273—Size 3. 5-In. Cut. Wt., 2¾ lbs
No. 274—Size 4. 5½-In. Cut. Wt., 2½ lbs
No. 275—Size 5. 6-In. Cut. Wt., 3½ lbs
No. 276—Size 6. 6½-In. Cut. Wt., 4¼ lbs.

Prices on Request

Half dozen in a cardboard box.

Weights do not include Handles.

Nos. 271 to 276

HATCHETS

GRIFFITH TOOL WORKS

Warranted Solid Tool Steel. Closely Inspected and Severely Tested. Selected Well-Seasoned Handles. Extra Fine Finish Throughout.

SHINGLING

Fire Bronzed. Octagon Neck. Round Poll

		Per Dozen
No. 316½—Size 1.	3½-Inch Cut	$22.00
No. 317 —Size 2.	3¾-Inch Cut	23.40

Half dozen in a box. Six dozen in a case.

SHINGLING

Olive Bronzed. Octagon Neck and Poll

		Per Dozen
No. 326—Size 1.	3½-Inch Cut	$22.80
No. 328—Size 2.	3¾-Inch Cut	23.40
No. 330—Size 3.	4¼-Inch Cut	36.00

Half dozen in a box. Six dozen in a case.

HALF

Fire Bronzed. Octagon Neck. Round Poll

		Per Dozen
No. 317½—Size 1.	3½-Inch Cut	$28.80
No. 318 —Size 2.	3¾-Inch Cut	30.00
No. 318½—Size 3.	3¾-Inch Cut	32.10

Half dozen in a box. Six dozen in a case.

HALF

Full Polished. Bell Face. Adze Eye. Thin Bit

		Per Dozen
No. 316—Size 2.	3¾-Inch Cut	$41.25

Half dozen in a box. Six dozen in a case.

HALF

Olive Bronzed. Octagon Neck and Poll

		Per Dozen
No. 336—Size 1.	3½-Inch Cut	$23.40
No. 338—Size 2.	3¾-Inch Cut	24.75
No. 340—Size 3.	3¾-Inch Cut	26.10

Half dozen in a box. Six dozen in a case.

NAIL HAMMERS

Weights Do Not Include Handles

GERMANTOWN

Prices on Request

ADZE EYE

Round Neck. Octagon Poll. Nickel Plated

Hickory Handle

Nos.	42½	43	44
Size	5	1½	1
Weight	11 oz	1 lb.	1 lb 4 ozs.
Per Dozen			

Half dozen in a box

F. R. PLUMB'S SOLID TOOL STEEL

"ARTISANS' CHOICE." ADZE EYE

Octagon Neck. Nickel Plated

Hickory Handle

Per Dozen

No. P20—Size 1. Weight, 1 Lb 5 Ozs.

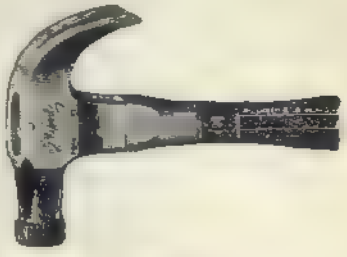
Applewood Handle

No. P11—Size 1½. Weight, without Handle, 1 Lb. 1 Oz

Half dozen in a box

ADZE EYE

Full Polished



Per Dozen

No. 70—Size 0. Weight, 1 Lb 12 Ozs...
No. 71—Size 1. Weight, 1 Lb. 4 Ozs. ..
No. 72—Size 1½ Weight, 1 Lb.. ... .
No. 73—Size 2. Weight, 13 Ozs. ... ..
No. 74—Size 3. Weight, 7 Ozs... . .. ..

Bell Face

Per Dozen

No. 80—Size 1. Weight, 1 Lb. 4 Ozs
No. 81—Size 1½ Weight, 1 Lb
No. 82—Size 2. Weight, 13 Ozs.
No. 83—Size 3. Weight, 7 Ozs

Half dozen in a box

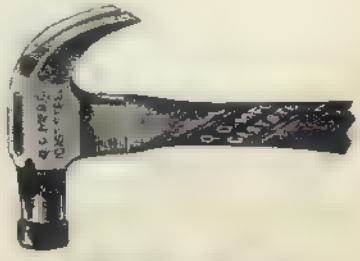
FINISHERS' WITH TRIPLE CLAW

(Two Hammers in One)

Will Pull Out Nails that Cannot be Reached with Any Other Hammer. Draws Finishing Nails Clear Out of the Wood Without the Necessity of Putting a Block Under the Head of the Hammer or Bending the Nail. Pulls the Nail Straight and True Without Marring Finest Woodwork.

Per Dozen

No. 125—Size 1½ Weight, 1 Lb. .



QUAKER CITY. ADZE EYE

Bell Faced. Polished

Hickory Handle. Per Dozen

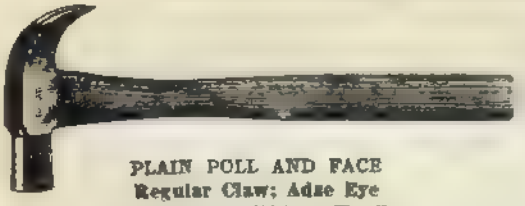
No. 142—Size 3. . .. .

Half dozen in a box.

NAIL HAMMERS

MAYDOLE

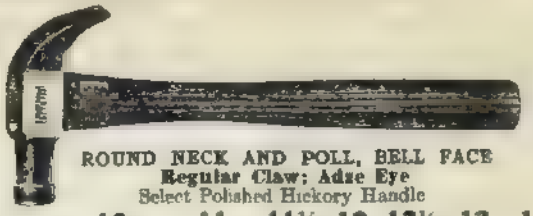
Solid Crucible Cast Steel; Perfectly Tempered, Polished; Selected Second Growth Hickory Handle.



PLAIN POLL AND FACE
Regular Claw; Adze Eye
Select Polished Hickory Handle.

Nos.	0	1	1½	2	3
Wt without Handle	1 lb 10 ozs	1 lb 4 ozs	1 lb	13 ozs.	7 ozs.
Per Dozen	$27.00	26.00	24.00	22.15	20.00

Half dozen in a box



ROUND NECK AND POLL, BELL FACE
Regular Claw; Adze Eye
Select Polished Hickory Handle

Nos.	10	11	11½	12	12½	13	14
Wt. without Hdl	1 lb 9 ozs.	1 lb 3 ozs.	1 lb	12 ozs.	10 ozs	7 ozs.	5 ozs
Per Doz.	$27.00	26.00	24.00	22.15	21.00	20.00	17.00

NICKEL PLATED HEAD, EBONIZED HANDLE
Bell Face; Round Neck and Head; Adze Eye

Nos.	811	811½
Size	¾	1¼
Weight without Handle	1 lb 3 oz	1 lb
Per Dozen	$43.00	41.00

Half dozen in a box

Round Adze Eye

Bell Face; Round Neck and Head; Adze Eye

RIPPING OR STRAIGHT CLAW, POLISHED
Select Polished Hickory Handle

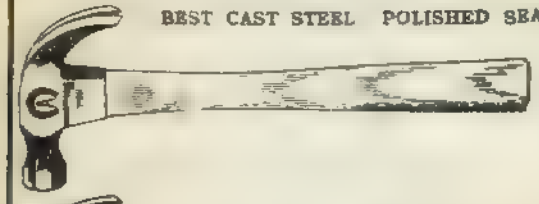
Nos.	701	701½	702
Weight without Handle	1 lb 4 ozs	1 lb	14 ozs
Per Dozen	$26.00	24.00	22.00

Nos.	711	711½	712	712½	713
Wt without Handle	1 lb 3 ozs.	1 lb	12 ozs	10 ozs	7 ozs
Per Dozen	$26.00	24.50	22.00	21.00	20.00

Half dozen in a box

ATHA

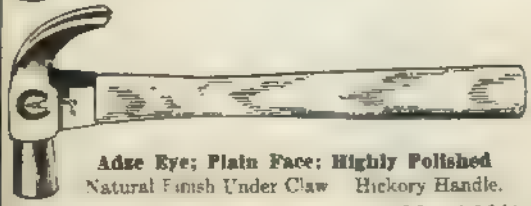
BEST CAST STEEL POLISHED SEASONED HICKORY HANDLES. FULLY WARRANTED



Adze Eye; Octagon Neck and Poll; Highly Polished
Hickory Handle

Nos.	31F	31½F	32F
Size	1	1¼	2
Weight without Handle	1 lb 4 oz	1 lb.	13 oz
Per Dozen	$26.00	24.50	22.00

Half dozen in a box



Adze Eye; Plain Face; Highly Polished
Natural Finish Under Claw Hickory Handle.

Nos.	A41	A41½	A42
Size	1	1¼	2
Weight, Less Handle	1 lb 4 ozs.	1 lb.	13 ozs
Per Dozen	$24.00	23.50	21.50

Adze Eye; Bell Face; Highly Polished
Natural Finish Poll and Under Claw Hickory Handle

Nos.	51	51½	52	53
Size	1	1¼	2	3
Wt., Less Handle	1 lb. 4 ozs.	1 lb	13 ozs.	7 ozs
Per Dozen	$24.00	23.50	21.50	20.00

Half dozen in a box.

CAST IRON HAMMERS

SHOEMAKERS'

	Per Dozen
No. 0—Japanned. Polished Face. Weight, about 7 lbs. to dozen	$3.30

	Per Dozen
No. 4—Japanned. Polished Face. . . . . Weight, about 10 lbs. to dozen	$3.30

Half dozen in a box

SHOEMAKERS'

	Per Dozen
No. 82—Half Polished . . Weight, about 12 lbs. to dozen.	$4.80

	Per Dozen
No. 15—Full Polished . Weight, about 14 lbs. to dozen.	$5.75

Half dozen in a box

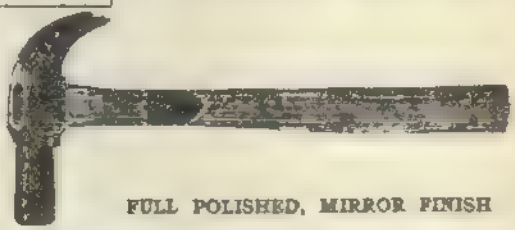
BRAD OR TACK HAMMERS

PLUMB — **Prices on Request** — **C. HAMMOND AND SON**

Highly Polished Weight, 3 Ozs. Plain Eye Select Hardwood Handle

	Per Dozen
No. 155	$

Half dozen in a box.



FULL POLISHED, MIRROR FINISH

Thoroughly Seasoned, Extra White Hickory Handles. Best Refined Crucible Steel Face and Claw Carefully Hand Tempered. Claw has Patent Grip to Pull a Headless Nail from Any Position. Eye, Hammer Head and Handle made to a Gauge to Insure Perfect Fit. Hammer Handle Bears an Attractive Black and White Shield Label.

	Per Dozen
No. 250—Weight, 4 Ozs.	$

Half dozen in a cardboard box. Weights do not include handles.

TACK OR CARPET HAMMERS

CAST IRON

One Piece Iron Head. 2¼ Inches. Claw at End of Handle. Length Over All, 8 Inches.

	Per Dozen
No. 5—Enameled . .	$1.75
No. 6—Copper-Bronzed. . . .	1.75

One dozen in a box. Weight, per dozen, about 5 lbs.

Small Nails Can be Started Out with the Claw, and Then Caught in the Keyhole-Shaped Slot in the Handle, and Drawn Straight to Drive Again.

DROP FORGED STEEL

	Per Dozen
No. 948—Drop Forged in One Piece. Head and Claw Hardened and Tempered. Ebonized Finish. Length, Over All, 10 Inches. 4-inch Head	$7.50

Weight, per dozen, about 7 lbs.
Half dozen in a box.

TACK OR CARPET HAMMERS

STANLEY MAGNETIC

One Piece Tinned Malleable Iron, 3½-inch Magnetized Head Claw at End of Handle Length, Over All, 10 Inches

Per Dozen

No. 12— **$2.80**

Weight, per Dozen, About 5½ Lbs

Magnetic Claw on Head Hickory Handle 3¾-inch Bright Finish Steel Head Length Over All, 10¾ Ins

Per Dozen

No. 1 — **$2.30**

Weight, Per Dozen, 3½ Lbs

One dozen in a box

Magnetic, Steel Claw, Hardwood Handle Length, Over All, 11½ Ins Length of Head, 4 Ins Weight,

Per Dozen

No. 2— **$2.50**

per Dozen, About 4¼ Lbs

ROBERTSON MAGNETIC

WITHOUT CLAW

Magnetic Head. 3½-inch Polished Steel Head. Polished Hickory Handle Length Over All, 12 Inches.

Per Dozen

No. 412 ..... **$10.80**

Weight, Per Dozen 5½ Lbs

MAGNETIC

WITH CLAW

Magnetic Head with Claw, 4½-inch Polished Steel Head Polished Handle Length, Over All, 11½ Inches Weight, Per Dozen, 6 Lbs

Per Dozen

No. GM **$6.50**

HIGH GRADE, CAST IRON MAGNETIC

Per Dozen

No. 1291 ..... **$2.70**

Half dozen in a box

Cast Steel. Steel Claw. 3½-inch Polished Head. Hickory Handle. Length, 11½ Ins. Weight, Per Dozen, 5 Lbs

Per Dozen

No. 30— **$6.10**

Cast Iron. Steel Claw Polished Head Hickory Handle Length, 11½ Inches Weight, Per Dozen, 4½ Lbs.

Per Dozen

No. 15— **3.45**

Cast Iron. Cast Iron Claw Other-wise Same as No 15

Per Dozen

No. 25— **3.65**

Cast Iron. Cast Iron Claw. 2½-inch Polished Head. Red Stained Wood Handle Length. Over All, 9½ Inches

Per Dozen

No. 10— **2.00**

Weight, Per Dozen, 3 Lbs.

One dozen in a box

STANLEY

With Long Wedge-Shaped Head for Working into Corners. 4½-inch Polished Malleable Iron Head. Malleable Iron Handle Inlaid with Black Walnut. Head, Handle and Claw, One Piece of Metal. Length, Over All, 11 Inches.

Per Dozen

No. 4— **$5.80**

Weight, Per Dozen, 5 Lbs.

SPORTSMANS AXES

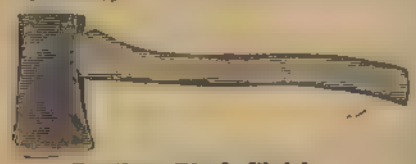
Soft steel body. Crucible forged steel bit, extra tempered. Steel faced poll. Tapering box eye. Select second growth hickory sportsmans pattern handle.

YANKEE PATTERN

Full Polished

No.	SP3/0
Width of cut, inch	2⅞
Length over all, inch	14¼
Weight per dozen, lbs	19
Per dozen	$22 75

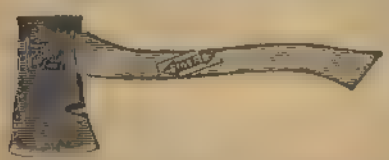
YANKEE PATTERN



Rustless Black Finish

Nos.	SGM3/0	SGM1	SGM2
Width of cut, inch	2⅞	3¼	3⅝
Length over all, in.	14¼	16½	16½
Weight per doz, lbs	18	22	26
Per dozen	$22.50	22 75	23 00

BOY SCOUT



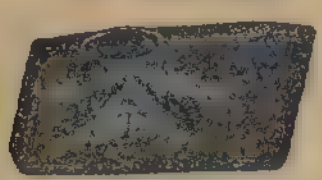
Rustless black finish. Ground edge. Nail puller.

Polished bit, Mission hickory handle.

Nos.	With Sheath SSA	Without Sheath SSAS
Width of cutting edge, inch	2⅞	2⅞
Length over all, inch	15½	15½
Weight per dozen, lbs	21	21
Per dozen	$25.25	20 50

All above, one-half dozen in a box.

AXE SHEATHS



For hunters, boy scouts and sportsmen's axes.

Made of russet leather with flap and brass knob fastening. Will fasten to belt.

No.	12
Length, inch	6
Width at top, inch	2¾
Width at bottom, inch	3½
Weight per dozen, lbs	2
Per dozen	$8.25

Loose.

PLUMBS

Hand forged. Fine grade crucible steel. Solid punched eye. Bit ground sharp. Mahoganized handle.

Non-Rusting Finish

No.	674HP
Size, inch	2
Width of cut, inch	3¼
Weight per dozen, lbs	30
Per dozen	$21 00

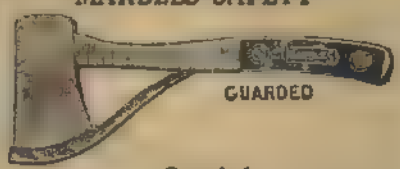
PLUMBS BOY SCOUT WITH SHEATH

Rustless black finish. Nail puller. Hickory handle, Mission finish. Sheath of heavy russet tanned leather.

No.	PSAS
Width of cutting edge, inch	2⅞
Length over all, inch	15½
Weight per dozen, lbs	23
Per dozen	$25 50

All above one-half dozen in a box.

MARBLES SAFETY



Guarded.

Solid tool steel. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates.

Nos.	2	3
Length, inch	11	12
Weight each, ozs	20	27
Each	$3 25	3 50

Two in a box.

MARBLES

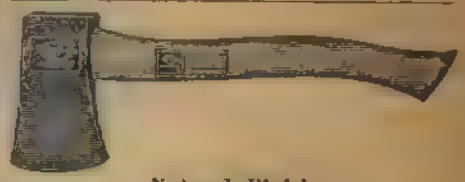
Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates. Nail claw which can be folded.

No.	2¼
Length, inch	11
Weight each, ozs	20
Each	$3.50

Two in a box.

CUB

Soft steel body. Forged steel bit. Solid punched eye. Hardened poll. Hickory handle.



Natural Finish

Nos.	C 1	C 2
Width of cutting edge, inch	3¼	3¾
Length over all, inch	15½	18
Weight per dozen, lbs	24	30
Per dozen	$19 50	20 00

LITTLE GIANT BOY SCOUT

Cast steel. Painted black with polished bit. Green handle.

No.	100
Width of cutting edge, inch	3
Length over all, inch	14
Weight per dozen, lbs	18
Per dozen	$12.00

Above, one-half dozen in a box.

MARBLES

Guard folded.

Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Selected hickory handles.

Nos.	5	6
Length, inch	11	12
Weight each, ozs	16	21
Each	$2 00	2 25

Two in a box.

MARBLES PICK

With pick.

Solid tool steel blade. Nickel plated. Spring hinged folding guard, lined with lead. Drop forged handle. Rubber side plates. Pick attachment which can be folded.

No.	2 P
Length, inch	11
Weight each, ozs	20
Each	$4.50

Two in a box.

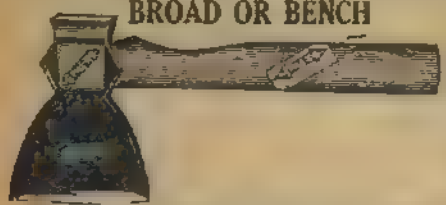
HATCHETS

STILETTO

FULLY WARRANTED

Hand forged from the highest grade crucible steel. Solid punched eyes. Head tempered, bit carefully tempered and whetted, ready for use. Handled with second growth hickory handle.

BROAD OR BENCH



Rustless black finish. Deep gold etching.

SINGLE BEVEL

Nos.	SGB1	SGB2	SGB3	SGB4
Width of cut, inch	4	4½	5	5½
Weight per dozen, lbs.	26	32	36	40
Per dozen	$38.25	42.25	48.00	52.50

DOUBLE BEVEL

Nos.	SGBD2	SGBD3	SGBD4
Width of cut, inch	4¾	5¼	5¾
Weight per dozen, lbs.	32	36	40
Per dozen	$45.00	51.00	59.00

SINGLE BEVEL

Gold bronzed finish. Polished head and bit.

Nos.	SBB1	SBB2	SBB3	SBB4	SBB5
Width of cut, inch	4	4½	5	5½	6
Weight per dozen, lbs.	23	26	30	38	42
Per dozen	$33.00	40.00	46.50	49.50	54.00

HUNTS

Bronzed finish, polished bit. Hand forged from crucible steel, carefully tempered and sharpened. Solid punched eye. Handled with select second growth hickory handles

BROAD OR BENCH
SINGLE BEVEL

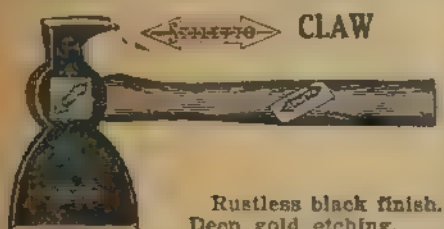
Nos.	HBS1	HBS2	HBS3	HBS4	HBS5
Width of cut, inch	4	4½	5	5½	6
Weight per dozen, lbs.	26	34	36	45	50
Per dozen	$33 50	40 50	46.00	49.00	54.00

STILETTO FLOORING

Rustless black finish. Deep gold etching. Adapted for nailing flooring or where something heavier than a hammer is required

Nos.	SGF1	SGF2
Width of cut, inch	3¾	4¼
Weight per dozen, lbs.	28	30
Per dozen	$43 50	46 50

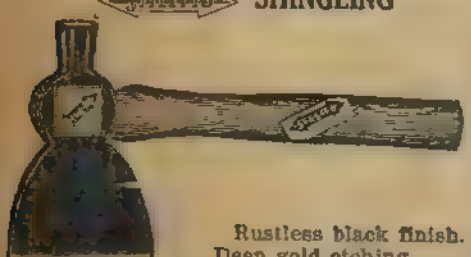
STILETTO CLAW



Rustless black finish. Deep gold etching.

Nos.	SGC1	SGC2	SGC3
Width cut, inch	3½	4	4½
Weight per dozen, lbs.	23	27	31
Per dozen	$36 75	37 00	39.00

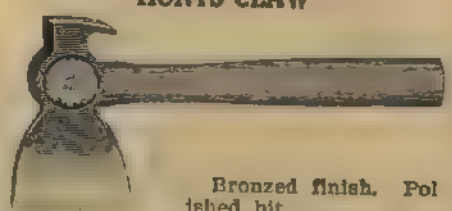
STILETTO SHINGLING



Rustless black finish. Deep gold etching.

Nos.	SGS1	SGS2
Width of cut, inch	3½	4
Weight per dozen, lbs.	24	26
Per dozen	$30.00	33.00

HUNTS CLAW



Bronzed finish. Polished bit.

Nos.	HC1	HC2	HC3
Width of cut, inch	3⅛	3⅞	4⅜
Weight per dozen, lbs.	23	28	34
Per dozen	$30 00	33.00	39.50

STILETTO SHINGLING

Gold bronze finish. Polished head and

Nos.	SBS1	SBS2	SBS3
Width of cut, inch	3½	4	4½
Weight per dozen, lbs.	22	28	32
Per dozen	$29 00	31.50	38.75

STILETTO CLAW

Gold bronzed finish Polished head and bit.

Nos.	SBC1	SBC2	SBC3
Width of cut, inch	3½	4	4½
Weight per dozen, lbs.	23	27	34
Per dozen	$36.00	36.75	38.25

STILETTO DERRICK

Rustless black finish. Deep gold etching.

No.	S 582
Width of cut, inch	3
Weight dozen, without handles, lbs.	28
Per dozen	$42.00

All above, one-half dozen in a cardboard box.

"NEVER DULL" POCKET KNIVES

American made [illegible] blades are finished after grinding, giving them an extra sharp edge.

WARRANTED NEVER DULL CUTLERY

1 AND 2 BLADE JACK KNIVES

[illegible] Dor $4.75 6.75

G491 [illegible] 2 blade jack, 3½ in., 2 blades, [illegible] handle, brass lined [illegible] Doz. $10.75

GROOVED CAP & BOLSTER

G491— [illegible] large pointed [illegible] etched and [illegible] brass lined [illegible] Dor $12.00

[illegible] Dor $5.10

G492 2 style handles, 3½ in., 2 [illegible] etched spear and [illegible] rosewood and polished stag and rosewood handles, brass lined [illegible] cap and bolster, nickel silver shield. Asstd. ¼ doz in box. Dor. $11.25

G493 2 style handles [illegible] stag and rosewood handles [illegible] lined, nickel silver [illegible] Doz. $11.25

G494 2 style handles [illegible] brass lined [illegible] polished nickel silver cap [illegible] and shield. Asstd. ¼ doz. in box Doz $11.50

G495—2 style handles 1¾ in., 2 blades extra heavy spear and pen, swaged polished, stag and rosewood handles brass lined steel [illegible] shield. Asstd. ¼ doz. in box Doz. $12.00

G496 2 style handles [illegible] large dog [illegible] brass lined [illegible] and shield. ¼ doz. in box Doz $12.50

G497 2 style handles [illegible] brass lined [illegible] nickel silver cap and bolster, nickel silver shield. Asstd. ¼ doz. in box Doz $12.50

G498—3½ in., 2 blades, spear and punch large blade swaged and [illegible] handle, brass lined, steel cap and bolster, nickel silver shield ¼ doz in box Doz. $12.00

G499 [illegible] swaged and etched, 2 in punch blade screw driver blade with cap and bottle opener can opener stag handle brass lined nickeled [illegible] shield Each $1.65 ¼ doz. lots Doz 17.50

G672—3½ in. 2 blade [illegible] and pen stag handle, steel liners and bolster. ½ doz in box Dor $6.95

G673 2 style handles, 2 [illegible] large spear [illegible] and etched, and pen, stag and rosewood handles [illegible] and bolsters Doz $8.25

G674 With chain, [illegible] polished large spear swaged [illegible] etched and pen stag handle, steel liners and [illegible] brass nickel chain and shackle ½ doz in box Dor. $9.50

VEST POCKET AND PEN KNIVES—2, 3 and 4 Blades

G686—Pen knife, 3½ in., 2 blades, [illegible] spear roll swaged and etched, brass lined [illegible] Dor $8.25

G688—Vest pocket pattern [illegible] shape 3 in. 2 blades full [illegible] and [illegible] brass lined [illegible] Dor $12.75

G625 [illegible] adus large spear [illegible] shell finish [illegible] brass lined [illegible] silver cap and bolster, polished back and inside, ½ doz in box Dor $8.25

G626 [illegible] 4 and 5 blades, [illegible] crocused [illegible] brass lined [illegible] Doz $14.50

G627—3½ in., 2 blades, large spear, crocused and etched and [illegible] polished [illegible] and inside, with shackle to attach to watch chain. ½ doz in box Dor $8.95

G689 Large pearl [illegible] pearl handle [illegible] steel bolsters, each in leather bag ½ doz in box [illegible] Doz. $14.75

G628 Oval pattern, 3 in. 2 blades [illegible] crocused and etched and [illegible] shell finish handle brass lined, nickel silver tips and [illegible] polished back and inside ¼ doz. in box Dor $9.50

G691 [illegible] handle brass lined [illegible] Doz $16.50

G629 4 style handles [illegible] brass lined [illegible] and stag handles, brass [illegible] and shield ¼ doz in box Dor $9.95

G647—Swell center pattern, 3½ in., 2 blades, large clip and pen stag handle brass lined, cleaned inside [illegible] silver shield, cap and [illegible] polished back ½ doz Dor. $10.50

G693 [illegible] spear 2 pen and nail file, swaged and crocused pearl handle, nickel silver lined [illegible] edges nickel shield, each in leather bag 2 in box Each $ 2.75 Doz 30.00

3 AND 4 BLADE CATTLE KNIVES

G628 Swell center pattern, 4 in. [illegible] polished [illegible] stag handle, brass lined [illegible] Doz $12.75

G629 Premium [illegible] pattern, 4 in. [illegible] stag handle polished steel [illegible] Doz $14.00

G630 [illegible] and utility pattern [illegible] crocused, swaged and etched pearl handle, brass lined, nickel silver cap, bolster and shield. ½ doz in box Doz. $14.00

G631 [illegible] and utility pattern [illegible] crocused, swaged and etched stag handle, brass lined, nickel silver cap, bolster and shield. ½ doz in box Doz. $15.75

G691 4 styles. Asstd 3 and 4 blade "S" shaped cattle, sheep spaying sheep foot and pen blades fire gold etched blades stag handles polished inside and back nickel silver bolsters, shields and milled lining, each in leather bag Asstd ½ doz. in pkg. Doz $16.00

PRUNING BLADE — FRENCH NAIL NICK

G641 [illegible] style handles [illegible] white, to tone, [illegible] bolsters, brass lined [illegible] Asstd [illegible] Doz $16.50

PUNCH BLADE

G642 [illegible] brass lined [illegible] Doz $18.00

PUNCH BLADE

G643 [illegible] brass lined [illegible] Doz $18.00

G644 Stockman's Pride [illegible] pearl handle brass lined [illegible] Each $2.75 Doz $30.00

POCKET KNIFE PURSE

Made from solid piece [illegible] calf uniform color, red silk stitched edges, nickel snap. 1 doz in box

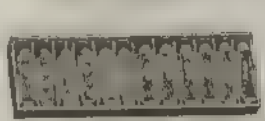
G695 [illegible] Doz

G696 [illegible] 85

G697 [illegible]

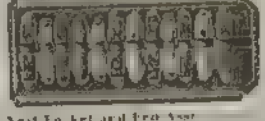
POPULAR PEN, JACK AND VEST POCKET KNIFE ASSORTMENTS

Pen and Jack Ass't [illegible] and pearl handles [illegible] and pearl [illegible] Asstd 1 doz in box Asstd ¼ doz Doz $8.75



Jack Ass't [illegible] brass lined [illegible] Asstd 1 doz in box Doz $11.50

Pen and Jack Ass't [illegible] brass lined [illegible] heavy steel bolsters [illegible] polished [illegible] Asstd 1 doz in box Doz $12.00



Vest Pocket Ass't [illegible] pearl handles [illegible] and pearl [illegible] nickel silver [illegible] brass lined and milled, nickel [illegible] tips and shields [illegible] Asstd 1 doz [illegible] Doz $15.00

Jack Ass't—3½ and 3¾ in. [illegible] 4 blades [illegible] and 3¾ in. 2 blades [illegible] and [illegible] tortoise shell handles [illegible] and steel lined, polished inside and [illegible] nickel silver and steel caps [illegible] Asstd 1 doz in box Doz $16.50

"GENCO" STRAIGHT RAZORS

The following are four of this best selling numbers of this well known make. Assortment of sizes and patterns. All are guaranteed. American made

Best ... in., hollow ground, full concave, double stamped, ... white bone handle. 1 dz. in case.
G1435 ... Each, $1.25
1 doz. lots, Doz. $14.50

... in., hollow ground, full concave, polished back, ... fancy metal tipped handle. 1 in box
G1818— Each, $1.75
3 doz. lots, Doz. $19.00

"Salsge"—⅝ in., full concave polished back, crocused tang with guard, easy change from left to right for either side of face, fully hollow ground. Each in flexible black leather case.
G1518— Each, $2.25
1 doz. in display box
Doz. $25.00

"Fluid Steel" ... concave, double ... tang, ... extra ... back and tang, ... or a ... 1 in box
G1517— Each, $2.50
1 doz. lots, Doz. $27.00

J. R. TORREY ENGLISH STEEL RAZORS

G988— ... in. steel blade, round point, hollow ground, full crocused, etched file cut tang, black rubber handle
... Each $1.85
½ doz. in case
Doz. $21.00

G989—⅝ in. steel blade, square point, hollow ground, extra crocused, double file cut tang, white ivory celluloid handle. 1 in case
... Each $2.75
½ doz. lots, Doz. $29.50

"WADE AND BUTCHER" RAZOR

G938— ... steel and concave hollow ground full ... 1 in case
Each $2.25
½ doz. lots in case
Doz. $25.00

"BOSS BARBER" RAZOR

⅝ in. steel blade, concave hollow ground, polished, flat back, beveled handle, white insert, each in purse top leather case. ½ doz. in pkg.
G980—Bullet point ... Doz.
G981—Round point ... $9.50

"U'ROWN" HAIR TRIMMER

G 316—Silver plated holder with ... Each, 90c

RAZOR HONES

"Boss Barber"—5½x2, dark brown velvet face, each in box.
G1106—1 doz. in carton
Doz. 84c

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"Never Dull"—5½x2, double hone, 3 colors, sharpens on one side, finishes on other ... with ... in box
G1107—1 doz. in carton.
Doz. $1.40

POPULAR PRICED RAZOR STROPS

Up-to-date styles at attractive prices. Each especially treated, ready for immediate use.

G1400—20x2 ... leather ... razing side ... shaped handle ... single eye ... $1.20

G1404—21x2, brown porpoise color horsehide finish side, white canvas sharpening side, flat stitched loop handle, nickeled swivel. ½ doz. in box
Doz. $2.75

G1402—21x2, black horsehide finish side, fluted brown canvas sharpening side stitched flat handle, spanned swivel and loop. ½ doz. in box
Doz. $2.50

"NEVER DULL" RAZOR STROPS

]

Prepared ... sharpening ... edge ... Already broke in.

Barber's style ... 3½, double selected black shell horsehide, side ... Each
G1813—1 in box Each, $1.85

"Velvet Edge"—... brown in red ... black London ground sharpening side, stitched fashioned black handle and top malleable nickeled swivel, silver embossing
G1803—½ doz. in box $6.25

Shell Leather" 25x3½, genuine shell leather finish side, heavy ooze horsehide sharpening side, alligator padded handle and top, patent gold clutch swivel
G1818—... in box Each, $2.25

Boss Barber"—25x3½, broke-in pig ... finish side barbers ... dry bone solid belt sharpening side, padded loop handle, assid color, ends, malleable gun metal swivel and loop, silver embossing
G1805—½ doz. in box $6.75

"Set-it-Edge"— 25x2½, ... Bulgian horsehide finish side, heavy gold like fluted linen sharpening side stitched fashioned handle solid nickeled swivel, each in box
... doz. ... carton
Doz. $12.50

STAR VALUE

Barbers' "De Luxe" ... colored ... side, ... parchment ... and ... in the ... Each $2.10

"Ready-For-Use"— 2x3½, extra heavy double leather tan horsehide finish side, ... side, ... with ... in box
... $1.75

G1920— ... extra ... in ... of ... leather ... assid ... with snap. A special favorite with barbers and individuals. 1 ... in box
Each $2.75

"NEVER DULL" RAZOR STROP ASSORTMENT

G1807—Aver. 23x2½, with hanging rack. Assid. 1 doz. in box, as follows:
½ doz. buff and tan, padded loop handles.
½ doz. ... black horsehide finish side, dry bone sharpening side, stitched fashioned handles.
½ doz. brown broke-in horsehide finish side, gray bone sharpening side.
½ doz. double leather red broke-in horsehide finish side Landon grain sharpening side.
... doz. ... Cavalry" strops tan and red dry horse sharpening side. Assid. 1 doz. in box
Doz. $8.50

"PAN AMERICAN" RAZOR STROP ASST.

G1803 "Pan ... nickeled ... with hanging rack. Assid. ... in box as follows:
½ doz. ... and brown horsehide and solid color canvas flat loop and stitched ... handles
½ doz. double leather with loop handles, assid. 1 ... box
Doz. $4.25

GUARANTEED HAIR CLIPPERS

G207—No. 1, ... in. cut straight bottom plate full, nickel plated, oval top pattern, tempered steel teeth coil spring. 1 in box
Each $2.10

Star ... bottom, full nickeled, tempered steel ... ground teeth. ... in box.
Each
G128—No. 1 ... cut. $2.35
G133—No. 0, ... Terms, Out

Ball bearing ... nickel plated ... bottom plate, ... highly tempered cloth coil spring. 1 in box
Each
G209—No. 1 ... cut $3.15
G209— ... 3 30
G210— ... 3.60

G211 No. 00, beard or neck shaver ... nickel plated ... cut ... plate, highly ... tempered ... 1 in. box
Each $3.65

Ball bearing, ... nickel plated ... finish, ... extra strong push spring. 1 in box
Each
G212—No. 1, ... cut $3.75
G213— ... 3.95
G214— ... 4.10

"NEVER DULL" BARBERS' GUARANTEED CLIPPER

G130—... in. cut concave bottom, full nickeled ball bearing ... plate, extra strong ... push ... 1 in box
Each $3.75

POCKET KNIVES

A well balanced line of popular selling pocket knives at rock bottom prices. Each number represents the biggest value our buyers could obtain in that ... and other ... lines is to attract sales. The metal handled numbers ... staple, good ... sellers.

"EAGLE" METAL HANDLED POCKET KNIVES

G515—2½ in., large spear blade cutting edge 1 doz. box Doz. $1.20

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G 56—Nickel plated handle, 3½ in. large spear blade, cutting edge. 1 doz. in box
Doz. $1.55

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G 62 Assd. ... in., large blade assid. spear clip and sheep foot blades, tempered cutting edge, nickel plated and gun metal finish handles, assid. 1 doz. in 3-color display card. Doz.

... large spear and clip, good cutting edges and pen blades nickel plated metal handle. Assid. ... in box. ... Doz. $2.75

G655—"Easy Opener" pattern, 3½ in., 2 blades, large clip and pen, tempered, good cutting edges, nickel plated handle with shackle and chain. ½ doz. in box.
Doz. $3.50

G644— ... 2 blades, large spear and pen, tempered cutting edges, gun ... finish metal handle. 1 doz. ...
Doz. $2.25

]

G 651 Assd. ... in. ... spear, clip and ... tempered ... nickel plated and gun metal finish handles. Assd. ... in box. ... Doz. $2.75

POPULAR PRICED POCKET KNIVES

Assid. Celluloid Handles ... in. 2 blade, large spear tempered highly finished, pen blade sharp cutting edge polished back, celluloid handles in white and tortoise finish.
G693—Assid. ½ doz. in box.
Doz. $4.35

Brass Lined—3½ in., 2 blades highly tempered steel, cutting edges brass lined, black imitation fiber handles polished back
G627— ... in box Doz. $4.10

Assid Celluloid Handles ... blades, steel lined assd. celluloid handles.
G850—½ doz. in box Doz. $4.75

Brass Lined, Assid. Handles ... 2 blade, large spear and pen, brass lined, assid celluloid handles
G928—Assid ½ doz. in box.
Doz. $5.50

G1887 3 in. ... two blades, one large wide spear and one ... spear, assid pearoid handles brass lined clean inside and polished back. ½ doz. in pkg.
Doz. ... 25

G896 ... in., 2 blades pen and spear, ... highly glazed finish handles assid pearoid and rosewood, brass lined, cleaned inside nickel silver bolster. ½ doz. in box
Doz. $8.50

G 920 ... in., 2 blades ... steel ... pearoid ... brass lined ... Doz. $8.65

G910—"Equal End," 3½ in., 2 blades large swaged spear and pen, ... handle brass lined, polished back, cleaned inside, steel ... and holster
Doz. $9.50

G908 ... Opener ... blades, ... assd. ... spear and pen, ... handle, brass lined, ... back, ... cleaned inside, ... cap and bolster ...
Doz. $10.00

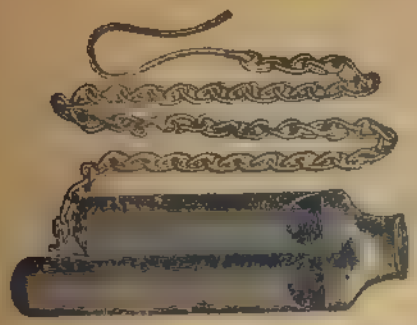
G909 "S" shape, 3 in., 2 blades, large spear and pen, ... handle, brass lined, ... cleaned inside, ... bolster ... dz. in box
Doz. $10.00

G 923 ... 3 blade clip and pen ... of ... blade, brass lined, ... nickel silver shield. ½ doz. in pkg.
Doz. $10.

COMPARISON ASSORTMENT

G911—Assid. 2 each of the following 3 numbers: G908, G909, G910 Assid. ½ doz. in box
Doz. $9.50

WHISTLES



DUPLEX

Nickel plated.

No.	60
Length, inch	3⅜
Weight, lb	1
Per dozen	$4.00

POLICE SPECIAL

Nickel plated. Used by traffic police.

No.	314
Length, inch	2
Weight, lbs	1¼
Per dozen	$7 00

ECHO CALL

Nickel plated.

No.	620
Size, inch	1½
Weight, ozs	8
Per dozen	$3 50

POLICE CLUBS

FLEXIBLE

Bean's Sole Leather. Over elastic steel spring wires. Handle of neatly braided leather. Swivel secured to end.

Nos.	10	12
Size, inch		12
Weight, lbs		
Per dozen	$50 00	66.00

Loose.

BILLETS

Assorted russet and black leather, stitched, with loop, shot loaded.

No.	110
Weight, lbs	4
Per dozen	$10 00

Braided handle, with loop, shot loaded.

No.	100
Weight, lbs	5½
Per dozen	$8.00

Above one-half dozen in box.

HANDCUFFS

PEERLESS

Nickel plated or blued. The only handcuff that cannot become locked in the pocket. Is self-locking when placed on a person's wrist, and can be locked in a fixed position by one complete turn of the key.

No.	31
Weight, ozs	10
Per pair	$10.00

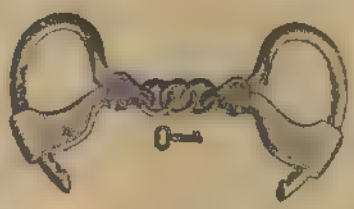
One pair in box.

BEANS IMPROVED

	Polished	Nickel Plated
Nos.	1 P	1 N
Weight pair, ozs.	12	12
Per pair	$8.50	9.00

One pair in a box.

TOWERS DOUBLE LOCK



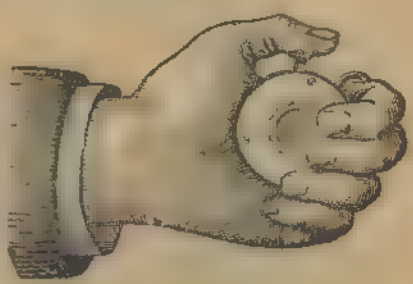
	Polished	Nickel Plated
Nos.	10	11
Weight pair, ozs	17	17
Per pair	$9.00	10.00

One pair in a box.

TALLY REGISTERS

BENTON

Used by railroad and steamship men for checking freight, cattlemen for counting stock, lumbermen, loggers, timber estimators, amusement places, cigar dealers, etc. Place finger through ring in back to prevent dropping.



No. 300—Heavy brass case. Nickel plated. Registers from 0 to 1000 and sets back to zero from any number. Diameter, 2 inches. Thickness, ⅝ inches. Weight per dozen 4 lbs ..... Each $6.00

No. 400—Same as No. 300. Registers 0 to 10,000.

Each $7.00

One in box.

SHIP CHANDLERY

ROW LOCKS

Ribbed Socket, Galvanized Cast Iron

Nos.	422-0	422-1	422-2	422-3
Size between horns, in.	1⅝	2	2¼	2⅝
Wt. per pair, lbs.	¾	1¼	1⅝	2¾
Per pair	$0.50	0.65	0.85	1.25

Ribbed Patent Swivel, Galvanized Malleable Iron

Nos.	439-1	439-2
Size between horns, in.	2	2⅛
Per pair	$1.28	1.50

THOLE PINS

No. 449—Galvanized wrought iron. 3-inch shank. Four pins to a set ..... Per set, $1.50

OARS

Flat. Ash.

Length—Ft.	6	6½	7	7½	8	8½	9	10	11	12	14
Weight per pair net, lbs.	6½	7	8	9	10	11¼	12½	14	15	23	28
Plain ..... Per ft.,	$0.32	.32	.32	.32	.32	.32	.36	.36	.42	.60	80
Copper Tipped ..... Per ft.,	.36	.36	.36	.36	.36	.36	.42	.42	.....	.60	....

Spoon, Spruce, Leathered, Copper Tipped.

Length, ft.	6½	7	7½
Weight per pair net, lbs.	5	5¼	5½
Per ft.	$0.90	.90	.90

STEERING WHEELS

Galvanized Iron Wheel, Wood Handles
Nutmeg Pattern

Nos.	5650-03	5650-04	5650-05
Size wheel, in	12	16	20
Size drum, in.	2½x3	3x4	4x4½
Wt. each net, lbs.	3	6	12½
Each	$2.25	3.75	7.25

Polished Brass Wheel, Wood Handles
Flat Spokes and Rim

Nos.	563-6	563-7	563-8
Size wheel, in	12	16	20
Size drum, in.	2½x3	2½x3½	4x4½
Wt. each net, lbs.	2¾	4½	9½
Each	$4.00	6.00	9.50

SEATTLE HARDWARE COMPANY

SHIP CHANDLERY

TILLER ROPE

SAMSON

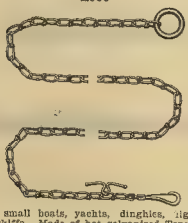
Made of best Samson cotton stock braided over a phosphor bronze flexible wire cable. Mahogany finish.

No. 8T—Diameter, ¼ in. Weight, 2¼ lbs. per 100 feet. Per Foot $0.10

No. 10T—Diameter, ⅜ in. Weight, 3⅛ lbs. per 100 feet. Per Foot ..... .14

PAINTER CHAIN

"ACCO"



For all small boats, yachts, dinghies, light launches, canoes and skiffs. Made of hot galvanized Tenso. It has an electric welded ring at one end and a snap and toggle at the other. The ring end of the chain lies under the bow of the boat, and the snap and toggle are used for the mooring. For making fast a small boat of any type a chain has numerous advantages over rope. It does not kink, foul, chafe or rot, and will not carry into the boat the water, drift and scum that are always picked up by a rope every time it is used.

No. 2—Canoe type. Length, 8 ft. Weight each, 13 oz. ..... Per dozen, $4.80

No. 2-O—Larger boat type. Length, 9 ft. 8 in. Weight each, 2 lbs. 1 oz. ..... Per dozen, 6.50

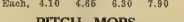
No. 4-O—Larger boat type. Length, 9 ft. 8 in. Weight each, 2 lbs 14 oz ..... Per dozen, 9.50

SIDE OR PORT LIGHTS

Octagon Pattern

No. 523—Open., in.,	4	5	6	7	8	10
Wt. each, lbs.	3	4	5½	8	11	20
Galv. Iron	Each, $3.75	4.10	5.50	6.75	7.90	13.50
Brass	Each, 4.10	4.65	6.50	7.90	9.30	17.00

PITCH MOPS

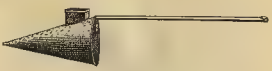


Wool Head, with Handle.

No. 10—Weight per dozen, 15 lbs. ..... Per doz., $9 00

One dozen in a bundle

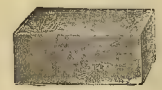
PITCH LADLES



Galvanized Sheet Iron, with Handle.

No. 15—Weight per dozen, 24 lbs. ..... Per dozen, $24.75

HOLYSTONES



No. 581—Size 5½x6x8 in.; weight each net, 9½ lbs. ..... Each, $3 00

Holystone Holders ..... " 1 50

No. 581C—Complete stone, handle and holder ..... " 4.00

PORT HINGES

With Brass Pin. Brass and Galvanized.

Entire Length, in.	4	5	6	8	10	12
Weight per pair, lb.	⅝	⅞	⅝	1½	2½	3½
No. 470G—Galvanized— Per pair	$0.75	0.90	1.05	1.50	2.50	3.25
No. 470B—Plain brass— Per pair	$0.85	1.00	1.35	1.85	3.00	4.50

CUDDY DOOR HINGES

Polished Brass, Boston Pattern.

No. 48—Entire length, in	3	4	5	6
Weight per pair, lbs.	½	¾	1	1½
Per pair	$0 70	0 75	1 30	1 40

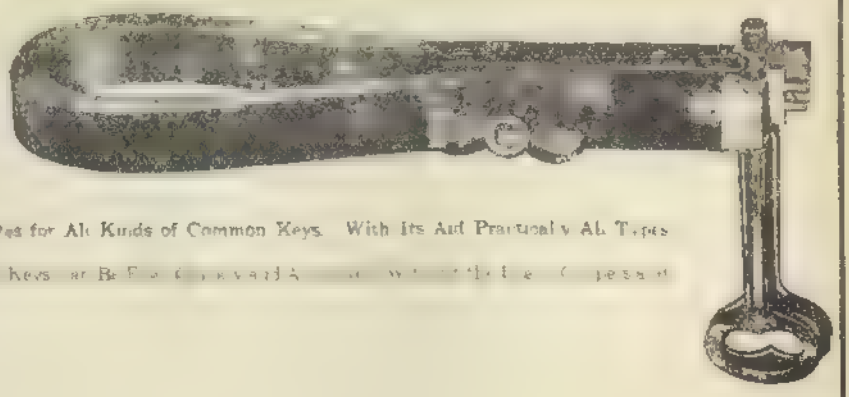
HASPS

Malleable Galvanized, With Brass Pin and Brass, Boston Pattern

Entire Length, in.	3	4	5	6
Weight, dozen, lbs	2½	3	4	6
Malleable galvanized. Per doz.,	$5.50	7.00	8 50	
Brass, polished ..... Per doz.,	$13.50	18.00	23.50	32.25

One dozen in a box

PRECISION COMMON KEY CLAMP



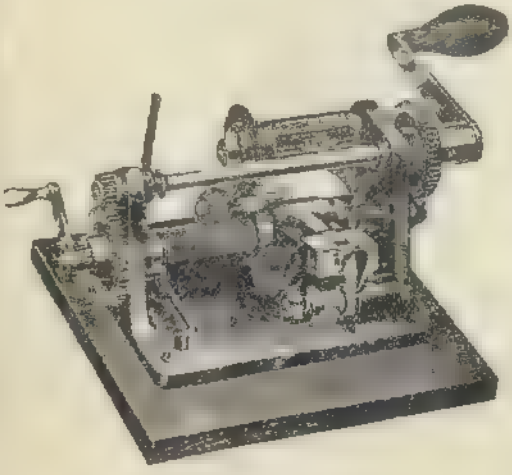
Makes Easy the Filing of Duplicates for All Kinds of Common Keys. With Its Aid Practically All Types [illegible] Keys Can Be Filed Quickly and Accurately to Perfect Duplicates

Scales

No. 418 — Each $2.64

KEY MACHINES

PRECISION



AN AUTOMATIC [illegible] FOR DUPLICATING PIN-TUMBLER [illegible]

A Carefully Designed Machine-tool Built to Give Accurate Duplicate Keys from Originals. Will Duplicate Any Pin-cylinder Lock Key from an Original or Pattern Key. No Skill or Experience is Necessary. Simply Insert Original, or Pattern Key, in Vise A and a Corresponding Blank in Vise B—then Apply Power, Either by Hand or Belt—the Machine Does the Rest. Keys for All Makes of Pin-cylinder Locks are Duplicated at the Rate of About One Every Minute, and They are Right—an Absolutely Accurate Copy of the Original.

With Combination Hand Crank and Power Wheel

	Each
No. 2	$50.00
No. 4—Complete with Key and Tool Cabinet on which Machine can be Mounted	58.00
No. 242—Same as No. 4, but with Gross Assortment of Keys	70.50

We Especially Solicit and Pay Particular Attention to Mail Orders

FIRE EXTINGUISHERS

CARBONA

No. 100

No. 200

No. 100—For general factory, store, automobile repair shop or household use, or in public buildings of all kinds. Weight, 4¾ lbs. ..... Each, $1.50

No. 200—With bracket and finger pull ring. For use in an automobile. Weight, 5 lbs. ..... Each, $2.00

Refill Cans—1-quart ..... " 1.50

No. 100 packed twelve in a carton. No. 200 six or twelve in carton. Refills, twelve in a carton.

The Carbona Fire Extinguisher is chemically perfect. It is filled with a liquid, which when it strikes flame exudes a dense vapor. This vapor displaces all the oxygen about the flame. Fire cannot burn without oxygen—the fire is out. Carbona Fire Extinguisher Liquid is almost twice as heavy as water. It can be directed a distance of many feet by a simple flip of the wrist.

CRUCIBLES

Black Lead

Nos.	5	10	20	30	40
Height, in.	6	8	10¼	11	12⅜
Diameter of top, in.	4⅞	6	7¾	8⅝	9¾
Liquid capacity, pints	1½	3	8	11	16
Metallic capacity, lbs.	15	30	60	90	120
Weight each net, lbs.	2	7	12½	18	25½
Each	$1.50	2.00	3.50	5.00	7.00

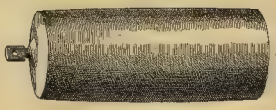
Nos.	50	60	70	80
Height, in.	13½	14	14½	15⅝
Diameter of top, in.	10¼	10⅜	10⅞	11¼
Liquid capacity, pints	22	24	26	29
Metallic capacity, lbs.	150	180	210	240
Weight each net, lbs.	32	37	42	43
Each	$8 50	10.00	12.00	14 00

MORTARS AND PESTLES

Cast Iron

Nos.	1	2	4	8
Capacity, pints	1	2	4	8
Weight each net, lbs.	5½	8½	13½	22
Each	$1.00	1.25	2.00	3.00

QUICKSILVER



In Large Cast Iron Tanks

In Bulk—(Tank extra) ..... Per pound, $1.00

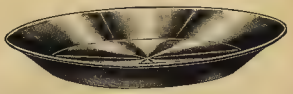
In Tank—Containing 76 lbs. ..... Per tank, 70.00

TANKS ONLY

Small Gas Pipe

Nos.	5	10
Capacity, lbs.	5	10
Each	$0.75	1.00

GOLD PANS



No. 1—16½ in. Pressed steel, polished. Weight per dozen, 22 lbs. ..... Per dozen, $6.00

No. 2—12 in. Pressed steel, polished. Weight per dozen, 18 lbs. ..... Per dozen, $5.50

HUNTING KNIVES

Lock back. Stag handle. One blade, glazed. Steel bolster. Steel lined.

No.	147
Length, inch	4⅝
Per dozen	$28.00

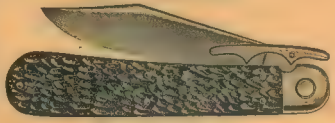
Lock back. Stag handle. One blade, half crocus polished. Nickel silver bolster. Brass lined.

No.	146
Length, inch	4½
Per dozen	$32.00

Ebony handle. One heavy blade, glazed. Polished steel cap and bolster. Steel lined.

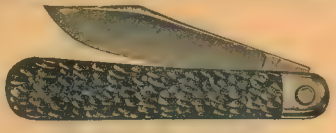
No.	128
Length, inch	5½
Per dozen	$30.00

PRESS BUTTON



Press button hunting. Stag handle. One blade, glazed. Nickel silver bolster. Iron lined.

No.	1005
Length, inch	4¾
Per dozen	$30.00



No. 1000

Stag handle. One blade, glazed. Nickel silver bolster. Steel lined.

Nos.	1000	510
Length, inch	4⅞	4
Per dozen	$30.00	28.00

SAFETY FOLDING

Cut shows compact form of knife when folded. Stag handle. Nickel silver hilt and bolster, with sheath for use when knife is folded.

Nos.	83	85
Length blade, inch	4½	5
Weight, ozs	4	6
Each	$3.30	4.40

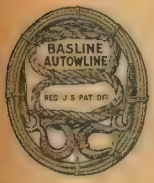
A good all around knife for sportsmen. The blade is made sharp at back of point for ripping, and the back is an excellent fish scaler.

No.	78
Length of blade, inch	4
Weight, ozs	3½
Each	$1 50

Average weight per dozen, 3 to 5 lbs. One-half dozen in a box.

TOWING DEVICES

BASLINE AUTOWLINE



Yellow Strand

Made of the best quality ¼-inch "Yellow Strand" wire rope. Length, 20 feet. Equipped with two patent snaffle hooks and two Manila slings. Can be rolled up in a flat coil and carried under a cushion. Approximate strength, 8600 lbs.

No.	280
Weight, lbs	5
Each	$6 00

One in a carton.

POWER STEEL

A flexible cable of great tensile strength for towing heavy cars and the largest tractors. Cable ⅛-inch in diameter, 18 feet in length, with 2 plain hooks and 2 rope slings.

Weight, lbs	18½
Power Steel	Each $12.00

KANTBUST'ER TOWLINE

Composed of 16 strands of pure Manila Binder Twine and 8 strands of galvanized wire interwoven gives it a tensile strength of 8000 pounds.

As an emergency line no car owner will be without it. Besides its use as towing, it takes the place of chains and in every way the user of this Towline is protected against any emergency.

Length, ft	25
Weight, lbs	2¼
Each	$3.00

SURE-FIT

The only towing cable put on a reel and made with a double hook. Made of crucible steel and will stand over 7000 lbs strain. Furnished with two Manila slings. Weight, 7 lbs.

No. 30C—For Autos.....Each $9.00

Constructed of ½-inch blue center steel cable, 18 feet long, and is equipped with 32 inches of ⅞ Manila rope slings. Will stand a strain of 12 tons. Weight, 10 lbs.

No. 30C—For Trucks.....Each $18.00

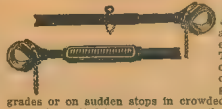
TOWING CHAIN

AMERICAN

The American Automobile Towing Chain is made of flat link steel chain, 18 feet long, fitted with a flattened S hook and tanned leather tubing 15 in. long on the other end. Non-kinkable.

Weight, lbs	12
American—One in a canvas bag	Each $5.00

TOWING POLE



The danger and inconvenience of towing disabled cars is practically eliminated by this device. The brakes of the towing car are in absolute control of the rear car. No danger of jamming on down grades or on sudden stops in crowded streets. The heavy coil spring is applied in such a manner that it cushions both pulling and ramming shocks, so that there is no jerk or jar on either car. The connecting clamps are equipped with heavy steel chains, 30 inches long with a secure spring latch.

This clamping device gives the pole a practically unlimited range of application, either to axle, spring or frame of either car. The pole telescopes, and is adjustable from 5 feet 6 inches to 8 feet. Strongly constructed and is made of double steel tubing. Shipping weight, 30 lbs.

Each $12.00

PULL-U-OUT

The Pull-U-Out consists of a substantial winding drum with gears inside which engage a small gear at the end of a long ratchet crank. Forty feet of steel cable, with 5000 pound capacity, a pulley and two 7-foot chains with hooks on each end, complete the pulling device.

Three 1-pound stakes, each 13 inches long are provided with each Pull-U-Out. Complete outfit weighs 26 pounds, and will fit into a space 4 inches by 14 inches.

Pull-U-Out—Complete ..... Each $20 00

SLING CHAINS

ACCO

A helper that will pay for itself many times over in any garage or repair shop. To lift motors and transmissions from the chassis, raise a front or rear end when replacing springs or removing axles, and do a hundred and one other odd jobs of heavy lifting where absolute safety is the first essential. Made of proof tested welded coil chain with ring on one end and a grab hook on each free end. Finish, self colored. Made in two sizes only.

Size, inch	¾	⅞
Lgth of each branch over all, ft	5½	9½
Bearing strain, lbs	3000	5000
Weight each, lbs	8½	21
Each	$3 00	6.50

One in a strong canvas bag.

FIRE EXTINGUISHERS AND LIQUIDS

PYRENE

Prices on Request

EXTINGUISHERS

A Double-acting, One Quart Pump, Strongly Constructed. Throws a Continuous Stream Twenty-five Feet. Fourteen Inches Long; Three Inches in Diameter. Weighs Six Pounds. Easily Operated, and May be Refilled as Readily as a Kerosene Lamp. Handsomely Finished and May be Carried in the Special Holder on the Dashboard or any Convenient Point of Car.

	Each
No. 100—Brass. Complete with Black Enameled Bracket	$10.00
No. 200—Nickel Plated. Complete with Black Enameled Bracket	11.00

METAL BOX

Made of Metal and Painted Bright Red. When Extinguisher is Once in the Box it Cannot be Removed without Breaking the Glass.

	Each
No. MB—Metal Box. Glass Front	$1.50

BRACKETS FOR ATTACHING TO CAR

	Each
No. BE—Black Enameled. One in a Carton	$1.00

LIQUID

When Pyrene Liquid is Pumped on a Fire, it is Changed to a Heavy Blanket of Gas That Surrounds the Flame, Cuts Off the Oxygen and Puts Out the Fire. Non-Damaging and Non-Corrosive, Does Not Freeze at 60° F. Below Zero, and is Good Until Used, Because It Does Not Deteriorate. Neither Does It Evaporate, Being Enclosed in a Sealed Cylinder.

	Per Quart
No. Q150—Quart Cans	$1.50
	Per Gal.
No. 600—Gallon Cans	$6.00

Loose.

J-M

The J-M Fire Extinguisher Possesses Every Desirable Feature of the One-quart Type Plus an Exclusive Two-way Method of Operation. This Method Permits Discharge, Either by Pumping or by Storing Sufficient Pressure with Nozzle Closed to Discharge Contents when Nozzle is Opened. With the Latter Method Both Hands are Left Free to Aim, and Operation in Cramped Quarters is Greatly Facilitated. Its Use Entitles Car Owners to 15% Reduction on Auto Insurance. The Fluid Never Deteriorates is Non-corrosive, a Non-conductor, and the Only Fluid Recommended for Use in the J-M Extinguisher.

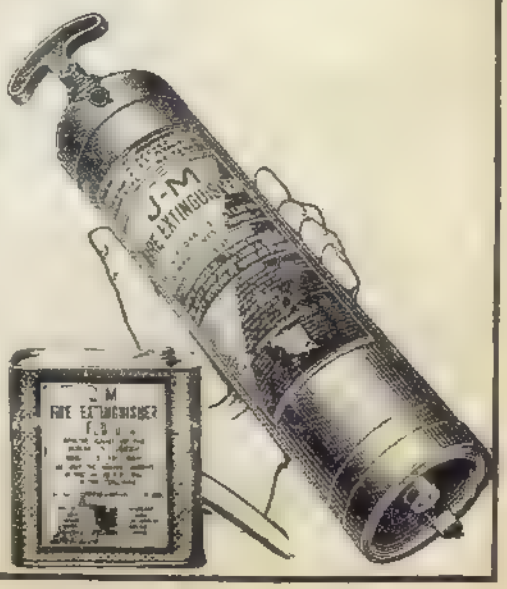
EXTINGUISHERS

	Each
No. 800—Brass with Black Enameled Bracket	$10.00
No. 850—Nickel with Black Enameled Bracket	10.00

One in a carton.

FLUID

No. 11—Quart Cans	$1.50 Per Quart
No. 22—Gallon Cans	5.00 Per Gallon
No. 33—50 or 110 Gallon Drums	4.50 Per Gallon



FIRE EXTINGUISHERS

PYRENE

Approved and Labeled by the Underwriters' Laboratories, Inc.

Pyrene Fire Extinguishers are the safest and most effective type for electrical and fires starting in oil, gasoline, shellac, paints or other highly inflammable substances. Water only spreads oil fires and it is dangerous to use water on an electrical fire.

Insurance companies recognize the value of Pyrene and grant a 15 per cent reduction in automobile fire insurance when cars are equipped with Pyrene. Reduction in premium is also given for Pyrene equipment on other risks.

Laws require and safety demands that motor boats carry a fire extinguisher. Pyrene is sure on gasoline and oil fires, so there's safety afloat with Pyrene in the boat. Approved by the U. S. Steamboat Inspection Service.

Thoroughness and ease of operation of Pyrene by women and children commend Pyrene to anyone for home protection. Approved by Good-Housekeeping Institute.

Pyrene is found all over as standard fire protection for inexpensive fires by large railroads, factories and power plants all over the country.

Pyrene will not injure delicate fabrics or sensitive machinery. Pyrene requires no recharging unless used on a fire. This lessens the upkeep cost. Pyrene can be left in unheated buildings or in exposed places as the liquid does not freeze at 30 degrees below zero.

Always use Pyrene Liquid in refilling Pyrene extinguishers. The use of other liquid may injure the mechanism.

PYRENE WITH BRACKET

	Each
Pyrene Extinguisher, Complete with Black Enameled Bracket	$10.00

Pyrene with Watchman's Holster

PYRENE WITH WATCHMAN'S HOLSTER

No watchman is completely equipped unless he is armed to fight fire. This holster is made of heavy reinforced brown canvas and enables Pyrene to be carried over the shoulder out of the way but ready for instant service.

	Each
Holster Only	$1.50
Holster Complete with Extinguisher	11.00

PYRENE METAL BOX

Boxes are substantially made of metal, Painted Bright Red. They Hold One Extinguisher and Prevent Tampering.

	Each
Metal Box Only	$1 50
Metal Box Complete with Extinguisher	11 00

PYRENE LIQUID

Size Package	Quart	Gallon
Each	$1.50	6.00

PYRENE ACID SYPHONS

Used by chemical plants, manufacturers using acids, storage battery manufacturers and charging stations, drug stores, fire departments, railroads and all places employing sulphuric acid.

Pyrene Pneumatic Acid Syphons are indispensable for the safe handling of acids from carboys into bottles or other containers. Acid spattering or splashing will cause great damage to anything it touches. This danger is eliminated with the Pyrene Acid Syphon.

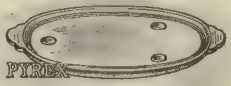
The Syphon is constructed so that the flow of acid is rapid and smooth. A valve is simply pressed down and a few strokes of the pump start the flow. Releasing the valve stops the flow. The Syphon is not affected by sulphuric acid or its fumes.

	Each
Pyrene Acid Syphon	$10 00

PYREX TRANSPARENT OVEN-WEAR

PYREX GLASS

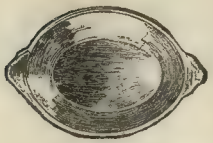
Clear as Sunshine; Serviceable, Beautiful and Durable. Nothing can Penetrate its Hard Polished Surface; Does Not Scratch, Chip, Crase, Dent or Bend. It Fills Every Requirement of a Baking Ware and a Table Ware.



SERVING TRAY

Per Dozen

No. 710—10 in. Diameter; Weight Each About 1¾ Lbs. . . $14 40



OVAL DISH
(Au Gratin Dish)

Per Dozen

No. 322—Size 8x6x1¼ in.; Weight Each, 1 Lb. . . . $10 80

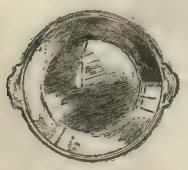
PYREX ASSORTMENTS
Plain Pattern

Contains Eleven of the Most Popular Numbers of Transparent Oven-Ware

One 1½ Qt. Round Casserole	$2 00
One No. 323 Au Gratin Dish	90
One No. 212 Bread Pan	1 00
One No. 203—8 in. Pie Plate	1 00
One No. 301—7 in. Shirred Egg Dish	85
Six No. 432 Ramekins	1.05

Per Assortment

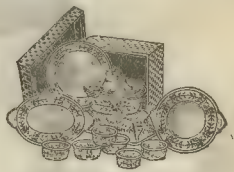
No. 1216—Eleven Pieces of Pyrex Transparent Oven-Ware . . . $7 00
One Assortment in a Carton. Weight About 10 Lbs.



ROUND DISH
(Shirred Egg Dishes)

Per Dozen

No. 302—Size 5½x1¾ in.; Weight Each ½ Lb. . . . $ 7 80
No. 301—Size 7x1½ in.; Weight Each, 1 Lb. 10 20



PYREX ASSORTMENTS
Fancy Engraved

Per Assortment

No. 1216E— Eleven Pieces (same as No. 1216 shown above but Fancy Engraved) $14 00
One Assortment in a Carton; Weight about 13½ Lbs.

GASOLINE LAMPS

REGULAR AIR-O-LITE

Will Give the Farmer and Resident of the Small Town a Brighter Light at Less Cost than he can get by any other method

Needs Filling Only Once a Week by Three Hours Use Each Night. Gives a Light Five Times Greater than any Center Draft Oil Burner and Twice as Great as any Mantle Gas Burner. The Light is Soft and Soothing to the Eye.

No possible chance to spill any fuel by dropping or overturning, explosions are impossible -a child can fall down stairs with lighted lamp and no danger of fire: Lamp can burn dry with entire safety, and no injury to any part of the lamp itself. Operates at 10 pounds pressure—the fount tests 200 pounds. When the filler cup is removed from lighted lamp it goes out instantly; it is therefore impossible to fill a lighted lamp.

No. AA307

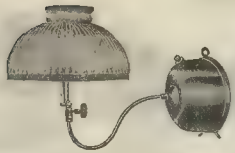
No. CQ307

No. CQ329

No. CQ318

Lamp. Nos.	AA307	CQ307	CQ329	CQ318
Equipped with Shade No.	307	307	329	318
Capacity, Fount, Pints	4	3	3	3
Weight Each, Lbs.	10	9	10	10
Each	$8 50	8 50	8 50	9.50

One in a Carton



BRACKET OR WALL LAMP

Adapted to many uses where it is more convenient than a table lamp. Handy in rooms with low ceilings, over the desk, etc. Can also be used as a table lamp.

Each

No. BQ307—Equipped with Shade No. 307, Weight Each, 9 Lbs...$8.50

One in a Carton

CHANDELIER

For Stores, Churches, etc.

Complete with Globes, Four Mantles, Pump, Wrench, Pick and Two Extra Generators.

Each

No. PQ—Equipped with Two No. 307 Shades; Weight Each, 16 Lbs...$15.00

One in a Carton

GASOLINE LAMPS AND LANTERNS

"AMERICAN READY-LITE"

No Torch—No Alcohol; Lights with a Match; Can be Cleaned Instantly While Burning

A combination of both large and small generators is used, thus retaining the quick lighting feature of the small generator without sacrificing the advantages of the large generator. Carbon and other impurities instantly removed from gas orifice by means of the handy instant cleaner, while the lamp is burning. Just a twist of the wrist and the job is done. Cleans from the outside like a hand cleaner, no small parts or mechanism inside the generator to cave trouble.

Unquestionably the most beautiful of all gasoline gas portables. Rich and massive in appearance. Built entirely of brass. Material and workmanship of the highest grade in every respect. Finished in highly polished nickel. Equipped with 10 inch beautiful opal dome shade with 3 inch crystal bead fringe to match.

Each

No. P67-6—Base or Fount is 8¼ inches in Diameter and Holds nearly Two Quarts of Gasoline. Lamp Burns 22 to 24 Hours on a Filling. Approximately 400 candle power. Uses one Large Mantle. Filler Plug Tightened or Removed with the Fingers; no Wrench required. Lamp is 23 inches High.....$12.50

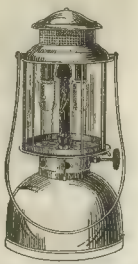
Each Lamp Packed in Strong Corrugated Board Box complete with Pump, Wrench, Mantle and Instructions for Operating. Shipping weight 12 Lbs.

Built of Brass and Finished in Polished Nickel with Solid Hardwood Ebonized Standard. Has 10 inch Ribbed Shade. Universal Spring Holder Holds Shade securely and Fits all Standard Shades used on Gasoline Portables.

Each

No. 1200—Base or Fount 8¼ inches Diameter, Capacity nearly Two Quarts. Lamp Burns 16 to 18 Hours on One Filling. Uses Two Mantles, approximately 400 Candle Power Light. Lamp is 19½ inches High.....$11.00

Each Lamp Packed in Strong Corrugated Board Box complete with Pump, Wrench, Mantles and Instructions for Operating. Shipping weight 8 Lbs.



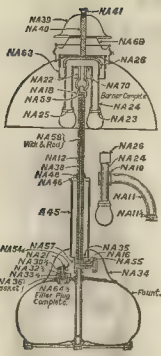
The **Ready-Lite Lantern** is used for Every Purpose for which a Hand Lantern is required. Wind and Storm Proof and Safe under All Conditions. Has Metal Reinforced Mica Globe, no Tin Sections to Obstruct the Light. Entire Top Removed by Depressing the Spring which holds it in place. This is a great convenience in lighting or replacing mantles.

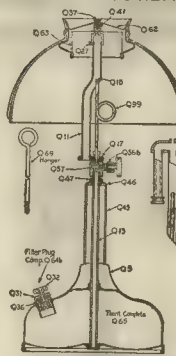
Each

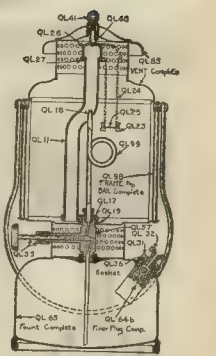
No. 1250—Made Entirely of Brass Nickel Plated and Polished. Base or Fount Holds about One Quart of Gasoline. Burns 10 to 11 Hours on a Filling. Two Mantles, approximately 400 Candle Power. Filler Plug Removed or Tightened with the Fingers—no Wrench required. Height (not including Bail), 13 inches $10 80

Each Lantern is Packed in Strong Corrugated Board Box complete with Pump, Wrench, Mantles and Instructions for Operating. Shipping weight 5 Lbs.

AIR-O-LITE REPAIRS

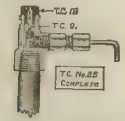






MODEL A AIR-O-LITE

		Each
A 10—	Air intake coupling	$0 40
A 11—	Air intake tube	.40
A 18—	Gas tip	.30
A 23—	Burner cap complete	.30
A 24—	Burner tube	.20
A 25—	Burner cap screen, 2 for	.10
A 28—	Mixing chamber	.50
A 38—	Filler plug gasket, 2 for	.10
A 40—	Heat bell stem	.10
A 41—	Heat bell screw	.10
A 45—	Handle	.40
A 46—	Handle cap	.10
A 48—	Set collar and screw	.20
A 54a—	Air Stem complete	.40
A 55-16—	Valve stem and nut	.60
A 57—	Valve complete	1 00
A 58-12—	Generator tube and wick	1 20
A 58-59—	Filler wick and screen	.10
A 63—	Universal shade holder	.40
A 64½—	Filler plug	1 20
A 65—	Fount with filler plug	7 20
A 68—	Hanger	.10
A 70—	Burner complete assembled	4.00
Generator tip, valve and handle		3.00
A —	Wrench	.20



AUTOMATIC CLEANER

	Each
TC25—Complete—Used on Model M Burner in place of M-18	$0 80
TC18—Gas Tip on above	20
TC 9—Needle Point on above	.10

MOEDL CQ QUICK-LITE LAMP

		Each
Q	—Burner Support Tube only	$0.50
Q	17—Burner Support Casting	.20
Q	18—Gas Tips	.10
Q	23—Burner Cap complete	.30
Q	24—Burner Tube	.20
Q	25—Burner Cap Screen, 2 for	.10
Q	26—Mixing Chamber	.30
C	32—Air Stem	.30
M	38—Rubber Gaskets, 2 for	.10
C	38—Lead Gaskets, 2 for	.10
Q	37—Clamp Screw	.10
Q	41—Shade Holder Screw	.10
C	45—Handle	.40
C	46—Fiber Handle Cap	.10
C	47—Handle Lock Nut	.10
Q	54b—Valve Stem and Nut	.60
Q	57—Valve complete	1 00
Q	62—Shade Clamp	.20
Q	63—Universal Shade Holder	.40
C	64b—Filler Plug complete	.80
C	65—Fount with Filler Plug	6 00
Q	68—Hanger	.10
Q	70—Burner, Generator and valve assembled	3.50
Q	89—Generator complete	.50
CQ	—Wrench	.20

QUICK-LITE BURNERS

	Each
Q 70—For all lamps having Valve at top of handle, also for Chandeliers and Brackets	$3.50
AQ 70—For Model A Lamp and others having Valve under cover below handle	3.50

GAS TIPS

	Each
A 18—(A Lamp)	$0.30
M 18—(M Burner)	.30
Q 18—(Quick-Lite)	.10

MODEL LQ LANTERN

Burner and Generator Parts same as CQ Lamp

		Each
LQ	10—Burner Frame Washer	$0 10
LQ	32—Air Stem	.30
M	38—Rubber Gaskets, 2 for	.10
LQ	36—Lead Gasket, 2 for	.10
LQ	40—Ventilator Rod	.10
LQ	41—Ventilator Ball Nut	.10
LQ	55—Valve Stem and Nut	.40
LQ	57—Valve complete	1.00
LQ	64b—Filler Plug complete	.80
LQ	65—Fount with Filler Plug	6.00
LQ	70—Complete Burner less Valve and Generator	1.80
LQ	85—Ventilator	2.40
CQ	—Wrench	.20

MODEL LS AND LSN (Former NL and IL)

Parts not listed same as LQ

S	11—Air Intake Tube	$0 50
S	17—Slotted Washer	.10
M	18—Gas Tip (no needle)	.30
S	26—Mixing Chamber	1 00
S	57—Valve complete	1 00
S	58-59—Filter Wick and Screen	.10
S	58-12—Generator Tube and Wick	.80
S	70—Burner complete	3 00
S	89—Valve, Generator and Gas Tip	2 00
IIN	99—Valve, Generator and Tip Cleaner	2 50

CLEANING SET

	Per Set
Cleaning Set for Air-o-lites	$0 30

MISCELLANEOUS SUPPLIES

	Each
Alcohol Bottle and Cap	$0 20
Lighting Torch	.20
Pick for Opening Gas Tip	.10
Pump	1 00
Pump Leathers	.10

NULITE
Height Over-all 22 Inches

	Each
No. 10—With No. 322 Shade	$10 00
No. 10D—With No. 318 Shade	12.50

One lb. a Carton. Weight 10 Lbs.

250 Candle Power 3 Hours for 1 Cent

Saves Time and Money for the User. Adds Comfort and Cheer to the Home. Makes for Comfort, Cheerfulness and Well Being Everywhere. Artistically Designed, Perfectly Constructed and Produces a Powerful White Light of a Quality Unequaled except by Sunlight.

Nickel Plated Fount holds One Quart and Burns 60 Hours on One Gallon Gasoline; Easy to Operate and Perfectly Safe; Light is Adjustable; Automatically Cleaned; All Working Parts Concealed but Instantly Accessible. Mantel Shade and Pump Furnished.

AMERICAN

	Each
No. 702—With No. 307 Shade Only	$10.00

One in a Carton. Weight 10 Lbs.

600 Candle Power, Clear Steady Light at a Cost of Half Cent per Hour

Can be Tipped Over, or Turned Up Side Down while burning; there is no danger.

Built of Brass, Nickel Finished in Polished Nickel. Has Automatic Cleaner which always Insures Perfect Service. Shade held in place by Improved Holder. Finest Workmanship.

STORM KING GASOLINE LANTERNS

Storm and Rain Proof. Automatically Cleaned: Cannot Clog

For Campers, Hunters, Summer Resorts, Street Shows, Circuses, Railroad Yards, Freight Houses, Way Stations, Docks, Warves, Camp Meetings, Street Lighting, etc.

An Efficient, Safe, Reliable, Powerful and Economical Light. Absolutely Storm-proof and will Burn Anywhere and in Any Position. It is Simple in Construction and in Operation. Easy to Light and Extinguish and can be taken apart in a few seconds if desired. Equipped with Automatic Tip Cleaner which Prevents Clogging; Rag Mantle, Mica Chimney, Pump and Lighter.

	Each
No. S. K.—13 in. High; Fount Holds One Quart, Burns 15 Hours on One Filling. Produces 250 Candle Power. Takes No. 120 Mantles	$6.50

Shipping Weight 5 Lbs. Each

GASOLINE LANTERNS

"COLEMAN"

QUICK-LITE LANTERNS

Lights with a Match; No Other Generating Required
Wind-Proof, Rain-Proof, Blizzard-Proof; Brighter than Twenty Oil Lanterns; Night Work Easy

On the Farm it is Indispensable—for the Barn, the Feed Yard, the Granaries, and all late work about the place. For Builders and Contractors, Blacksmith and Repair Shop, Warehouse, Store, Garages and Stables, Tent Shows, Camp Meetings, Street Stands, Bowling Alleys, Shooting Galleries, and will be just the Lantern for Boat Landings, Picnic Grounds, the Summer Cottage and the Outing Party Everywhere. It's the One Great Light Not Affected by Wind or Snow, Sleet or Cold.

The Air-O-Lantern is a Wonderful Outdoor Portable Lamp Producing 300 Candle Power, 12 to 15 Hours from a Quart of Common Gasoline. It Produces a Steady, Penetrating, Powerful Light in the Midst of the Wildest Winter Storm as well as on the Quiet Summer Night. Much Safer than the Common Oil Lantern.

Each

No. LQ-328—16 in. High, 7 in. Diameter; Mica Chimney 5 in. Diameter; Extra Heavy Brass, Full Nickel Plated; Fount Holds 3 Pints, Burns About 15 Hours, Gives 300 Candle Power Light.....$8 00
Shipping Weight, 10 Lbs.

No. 327-LQ—Mica Chimneys.....1.20

ARC LANTERNS
With Torch Lighting Burner
Guaranteed Storm-Proof and Bug-Proof. An Ideal Light for Use in Front of Stores, Churches, and Public Buildings

Gives a Strong, Steady, Powerful Light by which work is a Pleasure. It is handy about the Coal Stable, Barns or Yard. When hung up, it gives a Good Light for 100 yards in every direction; Placed on a Post 6 to 8 feet from the ground it serves as a Street or Yard Light; Can be instantly carried from place to place.

It is useful around Warehouses, in Basements and similar places. Hotel and Liverymen find it Indispensable, and for Camp Use there is nothing that will compare with it.

It is just the Lantern for Outside Construction Work, Factory Use, Railroad and Mining Work, and any place where a Portable Lamp of High Candle Power is Demanded.

Ten Shows, Camp Meetings, Street Stands, Tennis and Croquet Grounds can be Satisfactorily Lighted with it.

Each

No. HV316—13¼ in. High; 10¼ in. Diameter; Solid Brass, Burnished and Lacquered; Fount Holds 2 Quarts; Gives More Light than 20 Oil Lanterns.....$12.00
Shipping Weight about 14 Lbs.

Per Dozen

EXTRA GLOBES for Coleman Arc Lanterns.....$12 00
Open Scrok

COLEMAN LAMP SHADES

No. 194
Plain Opal

No. 307 and 307G
Opal Ribbed

No. 322
Mellotone Opal Glass

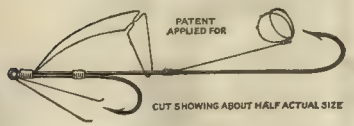
No. 329
Opal Glass Shade

No. 318
Opal Glass Shade Decorated in Brown and Tan Tints with Delastic Vane and Pink Roses

Nos.	194	307	307G	322	329	318
Colors	White	White	Green	White	White	Brown & Tan
Each	$1 00	1 20	1 20	2 00	1 20	2 50

All Above, Average Shipping Weight per Dozen, 26 Lbs.

FROG HARNESS

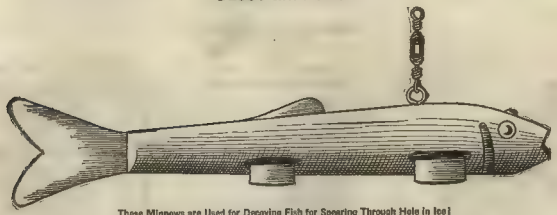


Holds the Frog without Hooking and Keeps it Alive. Most Humane and Truly Sportsmanlike Tandem for Casting and Trolling

The U-B Live Frog Harness holds the frog perfectly, and keeps it **absolutely alive.** The frog is so held **without hooking,** that it has **free use** of every part of its body, and it is always in natural position, and riding properly, thus making the bait most attractive. An unlimited number of casts may be made **without injury to the frog;** it never bloats, or opens mouth, and it may leap, float or swim with perfect ease.

	Per Dozen
No. 1—For **Medium** Size Frogs; Best Quality Hooks and Nickel Plated Wire Harness Attached	$6.00
No. 2—For **Small** Size Frogs; Best Quality Hooks and Nickel Plated Wire Harness Attached	6.00

DECOY MINNOWS



These Minnows are Used for Decoying Fish for Spearing Through Hole in Ice

Made of Wood with Metal Fins and Tail, and Brass Box Swivel; Heavily Weighted

	Per Dozen
Kohler's—Silver Finish, Lifelike Body, 7 in. Long; Weight per Dozen about 3 Lbs.	$7.20

LEONARD WATCHES

Front of Watch.

Back of Watch.

Front of Watch.

Back of Watch.

GUARANTEED

A Dependable and Very Reliable Line of Good Time-Keeping Watches, Backed with the Leonard Guarantee. Built Along the Lines of the Higher-priced Models of Famous Makes.

MOVEMENTS

All Leonard Watches are Stem-Wind, Stem-Set, Highly Polished and Damasked. Quick Train, Straight Line Escapement, Hardened Steel Cut Pinions, Carefully Regulated and Adjusted to Three Positions.

CASES

The Cases of the Leonard Watches are Carefully Made of Solid Metals, No Plating to Wear Off, the Color is the Same Throughout, the Composition Gilt Metal in Color and Appearance is a Very Close Imitation of Gold—A Most Satisfactory Substitute. The Composition Silver-Nickel Metal Contains a Large Percentage of Nickel and Wears as Silver.

ORIGINAL LEONARD

14 Size

	Each
No. 53W—Solid Gilt. Fancy Engraved	$3.35
No. 58P—Solid Silver. Nickel Shield Center. Fancy Engraved Border	3.25
No. 54W—Solid Gilt with Back and Bevel Furnished in Gun Metal	3.25

One in a box.

LEONARD DUKE

12 Size

	Each
No. 72EC—Solid Gilt. Fancy Engraved	$4.30

One in a box.

ASSORTMENT

Contains the Big Sellers of the Leonard Line, as Follows:
6 Leonard Watches
6 Leonard Night

	Per Assortment
No. 12—Complete with Display Fixture	$24.30

RADIUM WATCHES

LEONARD SPECIAL

RADIUM DIAL

The Leonard Special Military Watch is a Radium Dial Wrist Watch. This Dial is Easily Readable in the Darkness or Semi-darkness, Making the Watch Especially Adapted for Military Purposes. **Movement**—6 Size, Pull Out Pendant Set, Small Crown. **Cases**—Made in Solid Nickel and Gun Metal Finish. This Watch is Fitted with a Wide, Extra Heavy, Special Kitchener Strap. Colors, Khaki and Black.

	Each
No. 348—Plain Gun Metal Finish	$7.70
No. 368—Plain Solid Silver	7.50

One in a box.

THE SUCCESSOR TO THE WRIST WATCH

GLOWNITE UTILITY

Carrier is Constructed of a Moisture-proof Material, the Color of the Army Uniform or of Pigskin. Loop Slips Through Trousers Belt. Watch is Worn in Soldier's Pocket, Pendant down, Crystal in. Watch is the Luminous Dial Style.

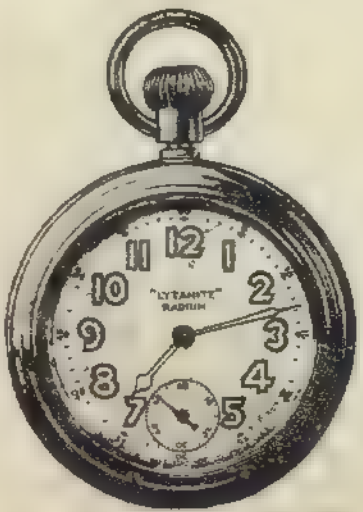
	Each
Khaki	$4.60
Pigskin	5.10

EXTRA CARRIERS

	Each
Khaki	$ .60
Pigskin	1.00
Watches Only	4.10

RADIUM ILLUMINATED SILVER DIAL. NICKEL FINISH

"LYTANITE"



Each
No. 205 $4.50

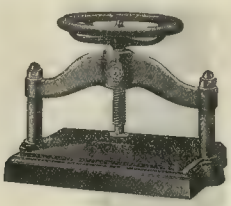
"OLALITE"

Each
No. 291 $6.40

"TRAVELIGHT"

Each
No. 305 $6.75

LETTER PRESSES



With Wheel

COMMERCIAL

Finished in Black and Bronze

	Each
No. 4B—Size of Follower, 10x13½ in., Weight 65 Lbs.	$5.75
No. 5B—Size of Follower, 10x15 in., Weight 80 Lbs.	7.00

RAILROAD

Finished in Plain Black

	Each
No. Q—Size of Follower 16x21 in., Plates are Accurately Planed, Weight 320 Lbs. Each	$22 00

LETTER PRESS WATER BOWLS

	Per Dozen
No. 1—6 in. Diameter, Cast Iron, Finished in Black and Bronze	$3.25

Weight 6 Lbs. per Dozen

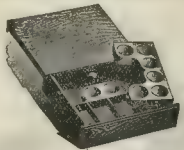
COPYING BRUSHES

Camel Hair, Tin Bound, Short Cedar Handle

	2
Width, In.	2½
Per Dozen	$0.90 $1.20

Half Dozen in a Box

MONEY DRAWERS



Hardwood with Varnished Front Board; Plain Stained Sides and Back, Plain Bottom and Top; Hardwood Sliding Till, with Turned Coin Compartments; Four Rectangular Bill Compartments Below; Special Combination Alarm Lock, with Five Finger Grips; Cast Bell Metal Gong; Steel Wire Rods, Levers, etc.; Lock has 33 Changes.

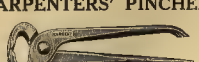
No. 5—5 Latches, 33 Combinations, **in Front of Drawer,** Hardwood Front, Drawer 17½x18x5 in., 6 Coin Cups, 4 Bill Trays.....$2.00

No. 6—5 Latches, 33 Combinations, **Under the Drawer,** Golden Oak Front, Drawer 18x18½x5¼ in., 8 Coin Cups, 4 Bill Trays..... 2.50

Half Dozen in a Crate, Weight 125 Lbs. per Dozen

SEATTLE HARDWARE COMPANY

CARPENTERS' PINCHERS



Solid Cast Steel, Polished Jaws

No. 60—P. S. & W. or

No. 43—Sargent—Length, in.	6	8	10	12
Weight per doz., lbs.	6	14	18	22
Per Dozen	$7.50	9.00	11.25	13.00

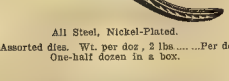
One-half dozen in a box.

PUNCHES

TICKET

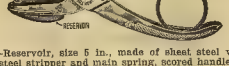
All Steel, Nickel-Plated.

No. 11—Assorted dies. Wt. per doz , 2 lbs.....Per doz , $6.00
One-half dozen in a box.



No. 32—Reservoir, size 5 in., made of sheet steel with tempered steel stripper and main spring, scored handles, nickel-plated finish, fancy dies. Weight per dozen, 2¼ lbs. .....Per dozen, $6.00

One-half dozen in a box.



Climax Euchre, Steel, Nickel Plated

No. 3000—Assorted Designs. Wt. per doz., 4 lbs.....Doz., $12.00
One-half dozen in a box.

No. 9—Full polished and nickel plated. Assorted fancy dies. Can punch to 1⅛ in. from edge of card. Weight per dozen, 3 lbs..... Per Dozen, $20.00

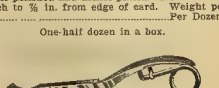
One-half dozen in a box.

PUNCHES

TICKET

No. 12—Full polished and nickel plated. Assorted fancy dies. Can punch to ⅞ in. from edge of card. Weight per dozen, 2½ lbs..... .....Per Dozen, $15.00

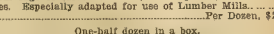
One-half dozen in a box.



No. 6—Same style as No. 9, but heavier. Can punch to 1⅛ in from edge of card. Polished, nickel plated, assorted fancy dies. Especially adapted for use of Lumber Mills..... .....Per Dozen, $24.00

One-half dozen in a box.

SADDLERS' OR BELT



KNURLED BELT PUNCH

Special Quality, Knurled and Blued, Cast Steel, Round.

Nos.	825	826	827	828	829	830
Sizes	2	3	4	5	6	7
Wt. doz., lbs.	⅝	⅝	⅞	1⅛	1¼	1⅝
Per dozen	$4.00	4.00	4.00	4.00	4.00	4.50

One dozen in a box.

Nos.	831	832	833	835	837
Sizes	8	9	10	12	14
Weight per doz., lbs.	2	2¾	3¼	3½	5¼
Per dozen	$4.50	4.50	5.00	5.00	6 00

One-half dozen in a box.

SADDLERS' OR BELT—POLISHED STEEL

10 9 8 7 6

Sizes—Standard	1	2	3	4	5	6
Diameter of Round Hole, in.	.08	09	.011	012	.013	.015
Weight per dozen, lbs.	½	½	⅝	¾	¾	1
No. 100—Round	Per dozen, $2 00	2.00	2.00	2.00	2.00	2.00
No. 13—Oval	"	"				5.75

Sizes—Standard	7	8	9	10	12
Diameter of Round Hole, in	.017	021	024	.028	035
Weight per dozen, lbs.	1⅛	1⅛	1⅝	1⅝	2
No. 100—Round	Per dozen,	$2.25	2.25	2.25	2.50	3.50
No. 13—Oval	"	5.75	5.75	5.75	5.75	

One dozen in a box.

TICKET OR CONDUCTORS PUNCHES

OPEN SIGHT

Nickel plated cast steel frame. Box joint. Steel pin and plunger. Tempered steel inserted die. Steel coil spring. One handle drilled for chain or cord. Assorted dies.

No.	421
Length over all, inch	4½
Length of reach, inch	1
Weight per dozen, lbs.	4
Per dozen	$80.00

One in a cardboard box.

Twelve assorted dies.

No.	2573
Length, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	3
Per dozen	$22.50

One-half dozen in a cardboard box.

CLUB KRAEUTER

Nickel plated cast steel frame. Flat tempered spring. Assorted dies.

No.	2200
Length, inch	4⅝
Length of reach, inch	¾
Weight per dozen, lbs.	3
Per dozen	$12.00

One dozen in a cardboard box.

BOND KRAEUTER

Twelve assorted dies.

No.	2570
Length, inch	6
Length of reach, inch	2
Weight per dozen, lbs.	6
Per dozen	$30.00

One dozen in a cardboard box.

CLUB KRAEUTER

Twelve assorted dies.

No.	2500
Length, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¾
Per dozen	$15.00

One dozen in a cardboard box.

CARD PARTY WITH RESERVOIR

Nickel plated cast steel frame. Cuts small hearts, diamonds, clubs and spades only.

No.	48
Length over all, inch	3½
Length of reach, inch	1⅛
Weight per dozen, lbs.	2
Per dozen	$32.00

One-half dozen in a cardboard box.

PARAGON

Nickel plated stamped steel frame. Scored handles. Steel wire main spring, with finger ring. Steel die and plunger. Assorted dies.

No.	250
Length over all, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¼
Per dozen	$5.50

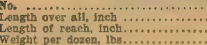
One-half dozen in a cardboard box.

RESERVOIR PARAGON

Same as No. 250, with reservoir that catches and holds all clippings.

No.	500
Length over all, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¼
Per dozen	$7.00

One-half dozen in a cardboard box.



RIVET SETS
P. S. & W.

Forged from tool steel. Tempered and polished. Gun metal finish.

Nos.	00	0	1	2	3	4	5	6	7	8
For iron rivets, lbs.	14	10-12	8	6	4-5	2½-3	1¾-2	1½	1¼	10-12
For copper rivets, Nos.		5	6	7	8	9	10-11	12	13	14
Weight per dozen, lbs.	13	10	7	6	5½	4½	3½	3	3	3
Per dozen	$12.50	12.50	11.00	11.00	8.50	8.50	7.50	7.50	7.00	7.00

Nos. 00, 0, 1 and 2, one-sixth; balance, one-half dozen in cardboard box.

STANDARD FARMERS

Forged from tool steel. Tempered. Polished heads. Natural finish shank. For copper rivets.

No.	089
For copper rivets Nos.	8&10
Weight per dozen, lbs.	5
Per dozen	$4.00

One dozen in cardboard box

Full polished extra heavy drop forged steel frames and checkered handles. Solid steel turret. Highest grade crucible steel swaged and tempered tubes. Heavy rivet. Lap joint. Tempered flat steel spring, riveted to handle. Copper plug. Removable drive tubes.

No. S114 consists of four tubes—Nos. 4, 6, 8 and 10. No. S116, six tubes—Nos. 3, 4, 6, 7, 8 and 10.

	4-Tube	6-Tube
Nos.	S 114	S 116
Length over all, inch	8½	8½
Weight per dozen, lbs.	10½	12
Per dozen	$26.00	30.00
Extra Tubes	Per dozen	$3.00

SCHOLLHORNS

Stamped from heavy sheet steel. Bright finish. Tempered tool steel tubes. Heavy rivet at joint. Steel wire spring. Tubes—Nos. 1, 3, 5 and 7.

No.	384
Length over all, inch	8
Weight per dozen, lbs.	7
Per dozen	$15.00
Extra Tubes	Per dozen 2.50

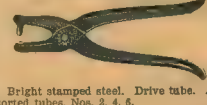
REVOLVING PUNCHES
BERNARDS

Six Tube—Nickel plated stamped steel frame. Knurled handles. Parallel jaws. Best steel "screw" tubes Nos. 1, 2, 3, 4, 5 and 6. Adjustable gauge enables the user to punch holes at uniform distances.

No.	186
Length over all, inch	8
Weight per dozen, lbs.	14
Per dozen	$16.00
Extra Tubes	Per dozen 4.50

One in a cardboard box.

SINGLE TUBE SPRING
LOUD



Bright stamped steel. Drive tube. Assorted tubes, Nos. 2, 4, 6.

No.	381
Length, inch	8
Weight per dozen, lbs.	6½
Per dozen	$6.00
Extra Tubes	Per dozen 2.50

STANDARD

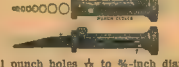
Full polished cast steel handles and jaws. Tempered tool steel tubes. Tempered steel spring, riveted to handle.

No. 40 consists of four tubes—Nos. 4, 6, 8 and 10. No. 60, six tubes—Nos. 3, 4, 6, 7, 8 and 10.

	4-Tube	6-Tube
Nos.	40	60
Length over all, inch	8	8½
Weight per dozen, lbs.	10	11
Per dozen	$20.00	24.00
Extra Tubes	Per dozen	$2.50

One-half dozen in a cardboard box.

PUNCHES
ROGERS BELT



Will punch holes 1/8 to 5/8-inch diameter. Easily sharpened, cuts easily and perfectly. A successful and practical tool. Can be carried in vest pocket. White nickel finish.

Weight per dozen, lbs.	1½
Per dozen	$11.50

One in a carton; one dozen in a cardboard box.

SADDLERS PUNCHES

ROUND DRIVE

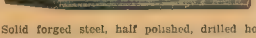
Forged from highest grade crucible steel. Knurled body. Polished heads and points. Oil-tempered. Best made points, mandrel drawn, beveled from outside. Will not clog.

No. 70—						
Size Nos.	1	2	3	4	5	6
Size hole punched, in.	1/16	1/8	3/16	1/4	5/16	3/8
Length, inch	3¼	3½	3¾	3¾	3¾	4
Weight per dozen, lbs.	⅞	1	1¼	1¼	1¼	1½
Per dozen	$5.00	5.00	5.00	5.50	5.50	6.00
Size Nos.	7	8	9	10	12	14
Size hole punched, in.	7/16	1/4	5/16	3/8	1/2	5/8
Length, inch	4¼	4¼	4¼	4¼	4½	4½
Weight per dozen, lbs.	1⅝	2¼	2¼	2¾	3¼	3½
Per dozen	$6.00	6.50	6.50	7.50	7.50	9.00

No. 70—Assorted—							
No.	2	3	4	5	6	7	8
In assortment, number	1	2	3	3	2	1	
Per dozen	$8.75						

Nos. 1 to 9, one dozen; Nos. 10 to 14, one-half dozen in box.

P. S. & W. ROUND DRIVE



Solid forged steel, half polished, drilled holes.

Nos.	01	02	03	04	05	06	07
Size hole, in.	1/16	1/8	3/16	1/4	5/16	3/8	7/16
Wt doz. lbs.	½	¾	1	1	1¼	1¼	
Per dozen	$2.50	2.50	2.50	2.50	2.50	1.20	3.00
Nos.	08	09	010	011	012	013	014
Size hole, in.	15/64	¼	5/16	3/8	7/16	½	9/16
Wt doz, lbs.	1½	1½	2	2	2½	2½	
Per dozen	$3.00	3.00	4.00	4.00	4.00	6.00	6.00

One dozen in cardboard box.

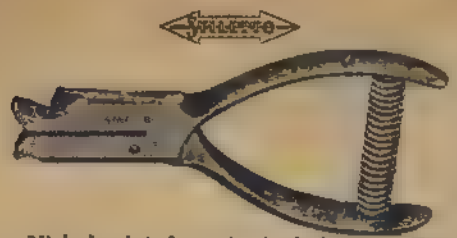
No. 051—Assorted	02	03	04	05	06	07
Per dozen						$2.50

CAPE CHISELS

No. 86—Dia body, inch	1/4	5/16	3/8	1/2	5/8	3/4
Width point, about, in.	1/8	5/16	1/2	1/4	1/2	5/8
Length, inch	4	4½	5	5½	6	7
Weight per dozen, lbs	¾	1½	1¾	3¼	5¼	8½
Per dozen	$3 50	3 75	4 00	4 25	6 50	8 50

¼ to 5/8-inch, one dozen; balance, one-half dozen in a box

TICKET OR CONDUCTORS PUNCHES



Nickel plated cast steel frame. Box joint. Steel pin and plunger. Tempered steel inserted die. Steel coil spring. One handle drilled for chain or cord. Assorted dies.

No.	421
Length over all, inch	4½
Length of reach, inch	1
Weight per dozen, lbs.	4
Per dozen	$30.00

One in a cardboard box

CLUB
KRAEUTER

Nickel plated cast steel frame. Flat tempered spring. Assorted dies.

No.	2200
Length, inch	4⅝
Length of reach, inch	⅝
Weight per dozen, lbs.	3
Per dozen	$12.00

One dozen in a cardboard box.

OPEN SIGHT

Twelve assorted dies.

No.	2573
Length, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	3
Per dozen	$22.50

One-half dozen in a cardboard box.

BOND
KRAEUTER

Twelve assorted dies.

No.	2570
Length, inch	6
Length of reach, inch	2
Weight per dozen, lbs.	6
Per dozen	$30.00

One dozen in a cardboard box.

CLUB
KRAEUTER

Twelve assorted dies.

No.	2500
Length, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¾
Per dozen	$15.00

One dozen in a cardboard box.

CARD PARTY WITH RESERVOIR

Nickel plated cast steel frame. Cuts small hearts, diamonds, clubs and spades only.

No.	48
Length over all, inch	3¼
Length of reach, inch	1⅛
Weight per dozen, lbs.	2
Per dozen	$32 00

One-half dozen in a cardboard box.

PARAGON

Nickel plated stamped steel frame. Scored handles. Steel wire main spring, with finger ring. Steel die and plunger. Assorted dies.

No.	250
Length over all, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¼
Per dozen	$5.50

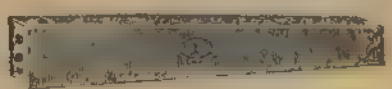
One-half dozen in a cardboard box.

RESERVOIR
PARAGON

Same as No. 250, with reservoir that catches and holds all clippings.

No.	500
Length over all, inch	5
Length of reach, inch	1
Weight per dozen, lbs.	2¼
Per dozen	$7.00

One-half dozen in a cardboard box.



RIVET SETS
P. S. & W.

Forged from tool steel. Tempered and polished. Gun metal finish.

Nos.	00	0	1	2	3	4	5	6	7	8
For iron rivets, lbs.	14	10–12	8	6	4–5	2½–3	1¾–2	1½	1¼	10–12
For copper rivets, Nos.		5	6	7	8	9	10–11	12	13	14
Weight per dozen, lbs.	12	10	7	6	5½	4½	3½	3	3	3
Per dozen	$12.50	12.50	11.00	11.00	8 50	8 50	7.50	7 50	7.00	7 00

Nos. 00, 0, 1 and 2, one-sixth, balance, one-half dozen in cardboard box.

STANDARD FARMERS

Forged from tool steel. Tempered. Polished heads. Natural finish shank. For copper rivets.

No.	669
For copper rivets Nos.	8&10
Weight per dozen, lbs.	5
Per dozen	$4.00

One dozen in cardboard box.

REVOLVING PUNCHES

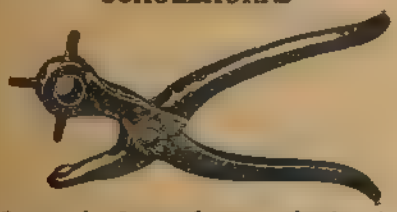
BERNARDS

Full polished extra heavy drop forged steel frames and checkered handles. Solid steel turret. Highest grade crucible steel swaged and tempered tubes. Heavy rivet. Lap joint. Tempered flat steel spring, riveted to handle. Copper plug. Removable drive tubes.

No. S114 consists of four tubes—Nos. 4, 6, 8 and 10. No. S116, six tubes—Nos. 3, 4, 6, 7, 8 and 10.

	4-Tube	6-Tube
Nos.	S 114	S 116
Length over all, inch	8½	8½
Weight per dozen, lbs	10½	12
Per dozen	$26.00	30 00
Extra Tubes	Per dozen	$3.00

SCHOLLHORNS



Stamped from heavy sheet steel. Bright finish. Tempered tool steel tubes. Heavy rivet at joint. Steel wire spring.

Tubes—Nos. 1, 3, 5 and 7.

No.	384
Length over all, inch	8
Weight per dozen, lbs	7
Per dozen	$15.00
Extra Tubes	Per dozen 2.50

Six Tube—Nickel plated stamped steel frame. Knurled handles. Parallel jaws. Best steel "screw" tubes Nos. 1, 2, 3, 4, 5 and 6. Adjustable gauge enables the user to punch holes at uniform distances.

No.	186
Length over all, inch	8
Weight per dozen, lbs	14
Per dozen	$16.00
Extra Tubes	Per dozen 4.50

One in a cardboard box.

SINGLE TUBE SPRING

LODI

Bright stamped steel. Drive tube. Assorted tubes. Nos. 2, 4, 6.

No.	381
Length, inch	8
Weight per dozen, lbs	6½
Per dozen	$6.00
Extra Tubes	Per dozen 2.50

STANDARD

Full polished cast steel handles and jaws. Tempered tool steel tubes. Tempered steel spring, riveted to handle.

No. 40 consists of four tubes—Nos. 4, 6, 8 and 10. No. 60, six tubes—Nos. 3, 4, 6, 7, 8 and 10.

	4-Tube	6-Tube
Nos.	40	60
Length over all inch	8	8½
Weight per dozen, lbs	10	11
Per dozen	$20 00	24.00
Extra Tubes	Per dozen	$2.50

One-half dozen in a cardboard box.

PUNCHES

ROGERS BELT

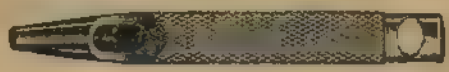
Will punch holes 1/16 to 3/8-inch diameter. Easily sharpened, cuts easily and perfectly. A successful and practical tool. Can be carried in vest pocket. White nickel finish.

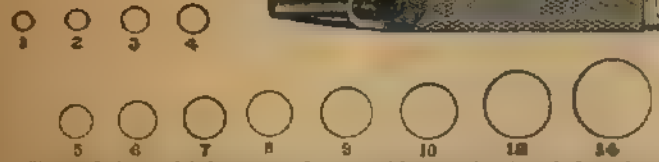
Weight per dozen, lbs	1½
Per dozen	$11 50

One in a carton; one dozen in a cardboard box.

SADDLERS PUNCHES

ROUND DRIVE





Forged from highest grade crucible steel. Knurled body Polished heads and points. Oil-tempered. Best made points, mandrel drawn, beveled from outside. Will not clog.

No. 70—

Size Nos.	1	2	3	4	5	6
Size hole punched, in.	1/32	1/16	3/32	1/8	5/32	3/16
Length, inch	3¼	3½	3⅝	3¾	3⅞	4
Weight per dozen, lbs.	⅞	1	1	1¼	1¼	1⅝
Per dozen	$5.00	5 00	5.00	5 50	5 50	6.00
Size Nos.	7	8	9	10	12	14
Size hole punched, in.	7/32	¼	9/32	5/16	3/8	7/16
Length, inch	4¼	4¼	4¼	4¼	4½	4½
Weight per dozen, lbs.	1⅝	2¼	2¼	2¾	3¼	3½
Per dozen	$6 00	6.50	6.50	7.50	7.50	9.00

No. 70—Assorted—

No.	2	3	4	5	6	7
In assortment, number	1	2	3	3	2	1

Per dozen $3.75

Nos. 1 to 9, one dozen; Nos. 10 to 14, one-half dozen in box.

P. S. & W.
ROUND DRIVE

Solid forged steel, half polished, drilled holes.

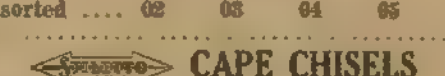
Nos.	01	02	03	04	05	06	07
Size hole, in.	1/32	1/16	1/8	5/32	3/16	7/32	1/4
Wt doz. lbs.	½	¾	1	1	1	1¼	1¼
Per dozen	$2.50	2.50	2.50	2.50	2.50	1.20	3 00
Nos.	08	09	010	011	012	013	014
Size hole, in.	15/64	1/4	9/32	5/16	11/32	3/8	13/32
Wt doz, lbs.	1¼	1¾	1¾	2	2	2¼	2¼
Per dozen	$3 00	3.00	4.00	4.00	4.00	6.00	6.00

One dozen in cardboard box.

No. 051—Assorted	02	03	04	05	06	07

Per dozen $2 50

CAPE CHISELS

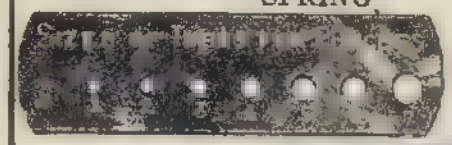


No. 86—Dia body, inch	¼	5/16	3/8	½	5/8	¾
Width point, about, in.	1/8	5/32	3/16	¼	5/16	3/8
Length, inch	4	4½	5	5½	6	7
Weight per dozen, lbs	¾	1⅛	1¾	2¼	3¼	4½
Per dozen	$3 50	3 75	4 00	4 25	6 50	8 50

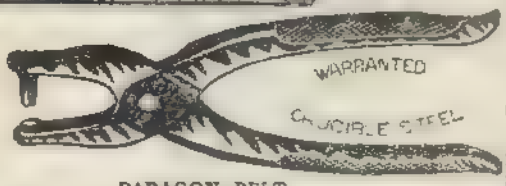
¼ to 5/8-inch, one dozen; balance, one-half dozen in a box.

PUNCHES

SPRING



Size of Tubes for Punches Nos 281, 284, 361 381, 384



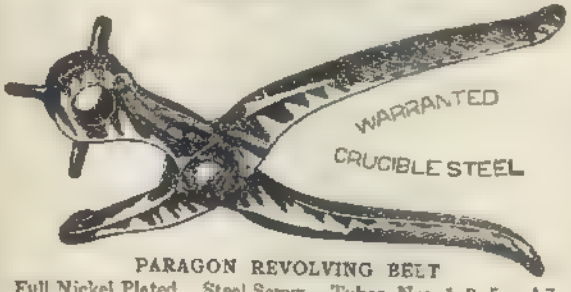
PARAGON BELT

Full Nickel Plated, With Assorted Steel Screw Tubes Nos 2, 4 and 6

Per Dozen

No. 281—Length, 8 Ins. $5.50 **$13.50**

Half dozen in a box



PARAGON REVOLVING BELT

Full Nickel Plated. Steel Screw. Tubes, Nos. 1, 3, 5 and 7.

Per Dozen

No. 284—Four Tubes. Length, 8 Ins. $14.50 **$29.00**

One in a box. Half dozen in a carton

Bright Stamped Steel Frame Riveted Joint, Tool Steel, Sharpened Tubes. Copper Plug Bright Finish Assorted Steel Tubes Nos 2, 4 and 6.

"LODI" BELT

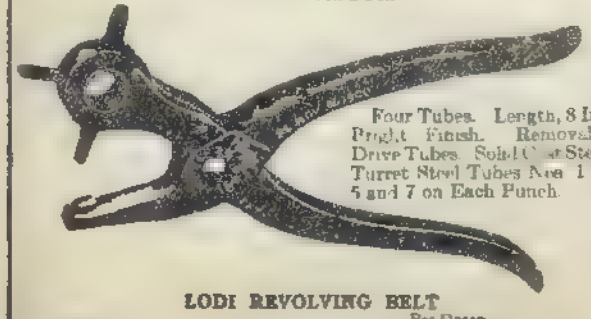
Per Dozen

No. 361—Length, 6 Ins. Tubes Not Removable $2.75 **$6.50**

One dozen in a box.

No. 381—Length, 8 Ins. Removable Tubes $3.50 **$9.75**

Half dozen in a box



Four Tubes. Length, 8 Ins. Bright Finish. Removable Drive Tubes. Solid Cast Steel Turret Steel Tubes Nos 1, 3, 5 and 7 on Each Punch.

LODI REVOLVING BELT

Per Dozen

No. 384 ..... $9.00 **$22.00**

Half dozen in a box

EXTRA DRIVE TUBES

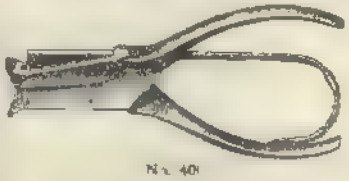
For Nos. 361, 381 and 384 Punches.

Nos.	1	2	3	4	5	6	7
Size, Nos.	1	2	3	4	5	6	7
Per Doz..	$1.25	1.25	1.25	1.25	1.25	1.25	1.25
	$1.70	**1.70**	**1.70**	**1.70**	**1.70**	**1.70**	**1.70**

Three dozen in a box

TICKET

Nickel Plated. Especially Adapted for Conductors Use Length, 4½ Ins. Reach, ¼ In. Assorted Dies



No. 400

Round Wire Spring

Per Dozen

No. 400 . **$11.34**

Coil Steel Spring

Per Dozen

No. 500. **$14.00**

Half dozen in a box

No. 500

LODI

Bright Finish. Round Design

Per Dozen

No. 350 Length, 4½ Ins **$4.00**

One dozen in a box

PARAGON

No. 250

Nickel Plated and Polished Stamped Steel Frame. Tempered Tool Steel Punches, Wire Springs and Steel Tubes. Furnished in Assorted Face Dies. **With Reservoir.** ½-in. Slot. Length Over All, 5 Ins. Reservoir Retains Clippings. Is Held Closed by Spring. Wt. Per Dozen, About 2 Lbs.

Per Dozen

No. 250—Wt., Per Dozen, About 5 Lbs. **$**

Half dozen in a box

THE NEW CLUB

No. 38

Extra Fine Finish. Full Nickel Plated and Highly Burnished. Reservoir Retains Clippings. Lgth, 5 Ins. Full Nickel Plated Assorted Dies, Clubs, Spades, Etc.

Per Dozen

No. 38 ..... **$9.50**

Half dozen in a box.

CONDUCTOR'S PUNCHES

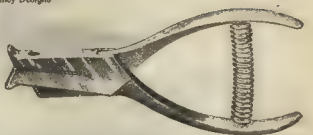
Dies Assorted, Fancy Designs

Especially Constructed for Hard and Continuous Usage, and is Preferred by the Street Railway Companies.

Per Dozen

No. 2585—Length 4¾ in.; Depth of Slot 1 in.; Made of Highest Grade Tool Steel, Nickel Plated, Brass Coil Spring, Nickel Plated, 12 Assorted Fancy Dies $18.50

Half-dozen in a Box; Weight per Dozen, 3¼ Lbs.



Especially Adapted for Use in Restaurants, at Card Parties etc. Preferred by the Street Railway Companies.

Per Dozen

No. 1111—Length 4⅝ in.; Depth of Slot, ¾ in.; Made of Best Quality Steel, Nickel Plated; Tempered Steel Coil Spring, 12 Assorted Fancy Dies $7 30

Half-dozen in a Box; Weight per Dozen, 3 Lbs.

Nickel Plated and Polished Heavy Steel Frame; Tempered Tool Steel Dies and Punches, Nickel Plated Coiled Tempered Steel Wire Spring, Closely Fitted. Per Dozen

No. 2200—Length 4½ in.; Reach ¾ in., Assorted Fancy Dies ...$36.00

One in a Box; Weight per Dozen, 3 Lbs.

PARAGON

Nickel Plated and Polished Stamped Steel Frame, Tempered Tool Steel Plunger; Tempered Steel Wire Spring; Tempered Steel Ticket Remover. Per Dozen

No. 10—Length 5 in.; Depth of Slot 1 in.; Assorted Fancy Dies $7 00

One Dozen in a Box, Weight per Dozen 2 Lbs.

SPRING PUNCHES

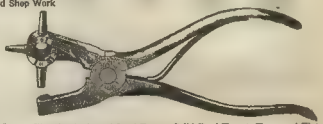
For Belt and Shop Work

HICKORY

Highly Polished, Forged Steel Frame; Length 8¾ in.; Knurled Handles, Blued Steel Spring and Tubes, Brass Plug, Removable Drive Tubes. Per Dozen

No. 18H—Four Tubes; Sizes Nos. 6, 7, 8 and 9 on Each Punch $16.00

One in a Box; Weight per Dozen, 12 Lbs.



High Grade Forged Steel Frame, Solid Steel Turret; Tempered Flat Steel Spring, Riveted to Handle; Tempered Tool Steel Tubes; Copper Plug; Removable Drive Tubes.

Per Dozen

No. 19—Six Tubes; Sizes 4, 5, 6, 7 8 and 9 on each Punch $10.00

Half Dozen in a Box, Weight per Dozen, 9½ Lbs.

SINGLE TUBE

Full Polished Cast Steel Frame, Length 7¼ in.; Tempered Tool Steel Drive Tube; Flat Steel Spring, Riveted to Handle, Copper Plug; Removable Drive Tube. Per Dozen

No. 10—Assorted Tubes, Nos 8 and 9 in a Dozen $6 00

PUNCH TUBES

Extra Quality, Polished and Tempered Tool Steel

Nos.	3	4	5	6	7	8	9
Per Dozen	$1 50	1 50	1 50	1 50	1 50	1 50	1 50

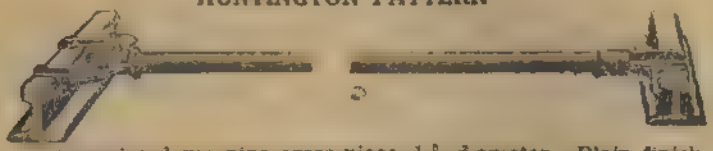
One Dozen in a Package

RAILROAD TRACK TOOLS

TRACK LEVEL

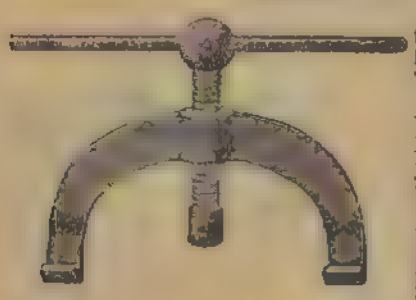
White pine. 1¼x5½ inches wide, 6½ feet long, with steel band, painted. Spirit glass set in top protected by handle. One end is cut into steps used to obtain proper elevation at curves.
No. 90—Weight each, 13 lbs.....Each $6.00

TRACK GAUGE
HUNTINGTON PATTERN



Hot insulated gas pipe cross-piece, 1⅛ diameter. Plain finish, with malleable iron socketed pipe-rests, one arched with double bearing on track, the other plain, with single bearing. Standard gauge, 4 feet 8½ inches between rails.
No. 10—Weight each, 14 lbs.....Each $8 00

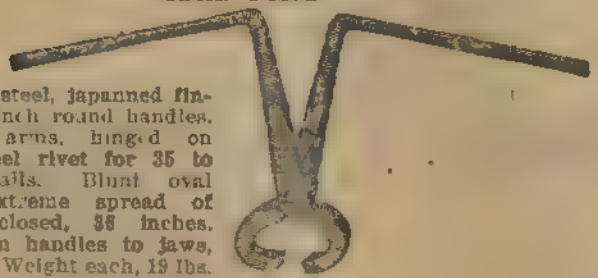
JIM CROW OR RAIL BENDER
CHICAGO PATTERN



Heavy forged steel frame, japanned finish.

No.	0
Will bend steel rail, lbs.	16 to 20
Weight each lbs.	35
Each	$21.00
No.	1
Will bend steel rail, lbs.	25 to 40
Weight each, lbs.	75
Each	$32 00
No.	2
Will bend steel rail, lbs.	45 to 65
Weight each, lbs.	90
Each	$45 00

RAIL TONG



Forged steel, japanned finish 1¼-inch round handles. Squared arms, hinged on heavy steel rivet for 35 to 100-lb. rails. Blunt oval grip. Extreme spread of handles closed, 36 inches. Drop from handles to jaws, 12 inches. Weight each, 19 lbs.
No. 1 . . .Per pair $6 50

RAIL DRILL
BELANDS PATTERN

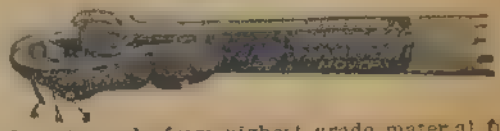
Plain finish, hardened, wrought iron frame. Hardened steel ratchet. Light, durable and serviceable. Can be used on any size rail and drill any size hole. For use with square taper shank drills No. 109E.
No. 1—Weight each, 25½ lbs . . . . Each $12 00

CAR MOVERS
EASY

Forged plain steel bar, flattened at extremity. Bar hinged to malleable iron shoe with side lugs to bridge the rail. Inserted triangular tool steel gripping bit and steel spring. With two triangular bits. Bits are reversible. All three edges can be used.

No.	E
Length, feet	5½
Weight each, lbs	20
Each	$9 00

SAMSON



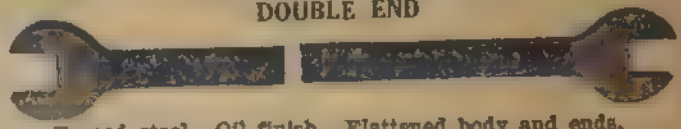
All metal parts made from highest grade material fully warranted. The leverage of this mover being compound the car-wheel is forced to turn instead of being lifted from the track. Handle made from selected maple.

No.	8
Length over all feet	5
Weight each, lbs.	17
Each	$9.00

TRACK CHISEL
VERONA

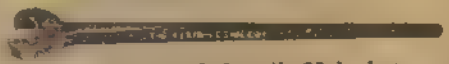
Extra grade crucible forged steel, oil finish oval eye slightly tapering octagon poll
1¼-inch curved cold chisel bit. Average length, 8¾ inches
No. 10 Weight each about 3 lbs. . Per pound $0 75

TRACK WRENCHES
DOUBLE END



Forged steel. Oil finish. Flattened body and ends.
Length over all 30 inches. Size of openings, 1⅞ and 1¼ inches. For ⅞ and 1 inch U S square or hexagon nuts
No. 32—Weight each, 7 lbs .....Each $2 20
Length over all, 30 inches Size of openings, 1⅞ and 1¼ inches. For ⅞ and 1 inch U S square or hexagon nuts
No. 33 Weight each 12 lbs . . . . . Each $3 30

SINGLE END



Solid cast steel, length 22 inches.
No. 22—For ¾-inch nuts. Weight, 4½ lbs.....Each $1 25
No. 23—For ⅞-inch nuts. Weight, 4½ lbs..... 1 25

All above, loose.

JACK SCREWS

Heavy cast iron body and head. Wrought iron screw. Swivel top. Bell shaped bottom.

Dia screw	Each	Height of stand	Height over all	Lift cap. ton	Weight, lbs
1¼	$ 3.10	6	8½	10	9
1½	3 40	8	10¾	10	15
1¾	3 80	10	12¾	10	16
1¾	4 20	12	14¾	10	18
1¾	4 60	14	16¾	10	22
1½	3.75	6	8¾	12	13
1½	4 25	8	11	12	16
1½	4 75	10	13	12	19
1½	5 25	12	15	12	22
1½	6.00	14	17	12	26
1½	6 75	16	18¾	12	24
1¾	5 00	8	11½	16	21
1¾	5 75	10	13½	16	24
1¾	6.25	12	15½	16	26
1¾	6 75	14	17½	16	32
1¾	7 50	16	19½	16	34
2	5 25	6	10	20	32
2	$ 6.00	8	12	20	26
2	6.75	10	14	20	29
2	7.50	12	16	20	30
2	8 25	14	18	20	35
2	9 25	16	20	20	45
2¼	10 00	14	17¾	24	38
2¼	11 00	16	19¾	24	41
2¼	12.00	18	22	24	60
2½	8.75	8	12½	28	39
2½	9.75	10	14½	28	45
2½	10 75	12	16½	28	49
2½	12.00	14	18½	28	55
2½	13.25	16	20½	28	64
2½	14 50	18	22½	28	70
3	20 75	16	20¾	36	68
3	22 00	18	22½	36	80
3	23.25	20	24½	36	85

JACKS

HORIZONTAL CLAW

Jack will push horizontally the entire lifting distance. Especially adapted for use on shipboard or in mines. Also used for moving machinery and boilers.

Capacity, tons	10	15	20	30
Length closed, inch	24¾	25¼	25¼	26½
Raise, inch	12	12	12	12
Weight each, lbs	105	132	163	232
Each	$155 00		200.00	270.00

RUSH

For lifting heavy loads in repair and machine shops and industrial plants or wherever a well constructed and dependable tool is required, these jacks find great favor with superintendents, foremen and workmen.

Because of their simple and rugged construction, lack of complicated working parts and ease of operation, they are ideal for general use.

No.	25-A
Capacity, tons	10
Height, inch	24
Lift, inch	16
Weight each, lbs	68
Each	$67.00

TRACK JACKS

BARRETTS AUTOMATIC

The lifting power of the Barrett jacks is simply a question of leverage. Depends entirely on the length of the lifting lever and the distance from the loaded end to the fulcrum point. In the Barrett jack this is one inch. Therefore the leverage of the jack is 60 to 1. If the man weighs 150 lbs he can lift 150x60 or a total of 9000 lbs.

No. 2

For all general lifting purposes. Double acting, lifting load on both upward and downward stroke. Automatically lowered by operator. Foot at base for lifting low set loads. Has no trip, cannot drop a load through carelessness. Malleable iron frame or base. Forged steel rack with machine cut teeth. Rolled steel fulcrum pin. Hardened steel bearings. Selected hardwood handles.

No.	2
Capacity, tons	10
Height of bar down, inch	21
Raise of bar, inch	10
Size of ratchet bar, inch	1⅛x1½
Weight each, lbs	65
Each	$25.00

Combined trip and automatic lowering Compound lever. Double acting and reversible. General construction same as No. 2.

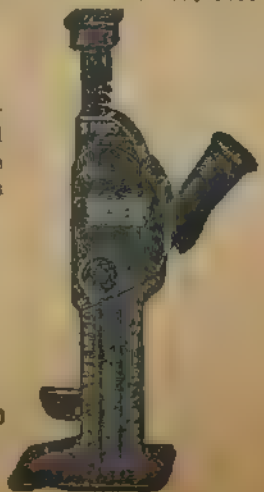
No. 1, Improved

No.	1
Capacity, tons	10
Height of bar, inch	24
Raise of bar, inch	13½
Size of ratchet, sq. inch	1½
Weight each, lbs	65
Each	$22.00

No. 10

No.	10
Capacity, tons	10
Height of bar, inch	24½
Raise of bar, inch	14
Size of square bar, inch	1½
Weight each, lbs	71
Each	$25.00

Adapted to the rapid handling of mining machinery, mine cars, agricultural machinery and light and narrow gauge track. General construction same as No. 2.



Nos.	50	51
Capacity, tons	5	5
Height, inch	16	21
Raise of bar, inch	8	13
Size of square bar, inch	1¼	1¼
Weight each, lbs	38	42
Each	$16.00	18.00

All above loose

BASEBALL BATS

REACH

The guarantee on baseball bats has been withdrawn by the factory.

Made of the finest second growth, straight grained white ash, thoroughly seasoned and hand turned.

No. 13-0—Burley. Dark brown finish. Plain finish handle.
Each $3 00

No. 12-0—Burley. Hand rubbed, dead oil finish. Special taped handle.
Each $3 00

No. 106—Worlds Series. Hand rubbed, dead oil finish. Plain handle.
Each $2.00

No. 105—World Series. Flame burnt finish, taped handle.
Each $2 00

No. 100—Special burnt finish. High polish.
Each $1 50

No. 2-0—Boys Burley. Spotted burnt, snappy yellow finish
Each $1.50

No. 79—Fungo. Natural yellow finish.
Each $1.25

No. 82—Reach Heavy Hitter. Special yellow finish.
Each $1.00

No. 83B—Reach School League. Spotted burnt finish.
Each $1.00

No. 25—Reach Boys League. Plain finish.
Each $0.70

LOUISVILLE SLUGGER

Made of extra selected second growth, straight grain, white ash.

No. 250—Weather tempered. Made from selected ash. Hand turned. Ruth, Ryan and Cobb models.
Per dozen $42.00

No. 125—Oil tempered finish. Made from choicest selected second growth ash. Hand turned, assorted models.
Per dozen $36 00

No. 16—Burnt oil finish. Second growth ash, hand turned. 32 to 36 inches long.
Per dozen $18.00

LOUISVILLE SLUGGER AUTOGRAPH

No. 40BR—Babe Ruth. Second growth ash. Similar to Hans Wagner model.
Per dozen $36.00

No. 40TC—Ty Cobb. Highly polished, flame burnt finish. Thin handle with gradual tapered barrel.
Per dozen $36 00

No. 40TS—Tris Speaker. Highly polished. Special flame burnt golden finish.
Per dozen $36 00

No. 40W—Hans Wagner. Highly polished, mottled finish. Has more hitting surface than the average bat.
Per dozen $36 00

No. 40GS—George Sisler. Silver bronze body, golden handle.
Per dozen $36 00

No. 40EC—Eddie Collins. Highly polished, flame burnt, orange finish. Small handle.
Per dozen $30 00

No. 40JD—Jake Daubert. New brown flint finish. Thin handle, body well balanced.
Per dozen $30 00

No. 40HG—Hank Gowdy. Flame burnt, golden finish. Made of second growth ash. Special taped handle.
Per dozen $36.00

No. 40TCJ—Ty Cobb Junior. As No. 40TC, except junior model.
Per dozen $12.00

No. 40BRJ—Babe Ruth Junior. Same as No. 40BR, except junior model.
Per dozen $12 00

Assorted lengths, 32 to 36 inches
All above, one in a paper bag.

No 19—Professional League. Second growth ash. Hand turned, flame burnt, shellac finish. Length, 32 to 36 inches; assorted weights.
Per dozen $24.00

No. 17—Professional League. Same as No. 19, except natural finish.
Per dozen $24.00

No. 11B—Semi Pro. Made of second growth ash. Brown finish with natural handle, center tapered. Length, 32 to 36 inches.
Per dozen $12 00

No. 12—King of the Field. Second growth ash. New golden finish; highly polished. Lengths, 32 to 36 inches.
Per dozen $12.00

No. 42—Junior Slugger. Second growth ash, burnished finish, 32 inches long.
Per dozen $9.00

No. 2—Cracker Jack. Boys size. Made of ash. Length, 30 inches.
Per dozen $3 00

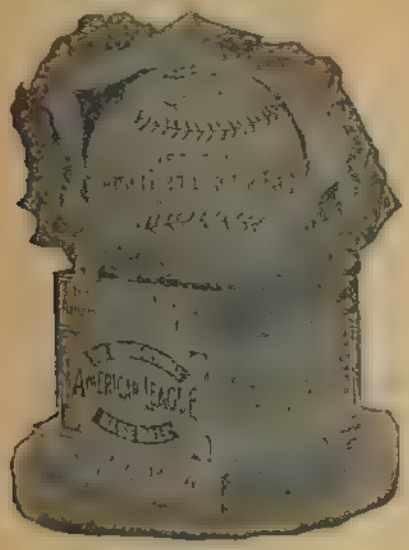
No. 4—Junior League. Made of ash. Flame burnt, highly polished. Length, 32 inches. ..... Per dozen $6 00

No. 52—Indoor Bat. Ash, 33 inches long, large size, flame burnt finish. Taped handle.
Per dozen $12 00

Average weight from 25 to 35 lbs per dozen.

REACH BASEBALLS

No. 0, 1L and 0J balls guaranteed to last a full game of nine innings and give entire satisfaction.



No. 0—The Official American League Ball. Used exclusively by the American League and worlds champions. Ball has a cork center and is recognized as the standard in the baseball world. The original red and blue stitched ball. In carton.

Weight, ozs 6
Each $2.50

No. 1L—Liberty League. Red and green stitch, rubber center absolutely guaranteed. Has been officially adopted by numerous semi-professional and amateur leagues who pronounce it perfect. Made by experts who have made baseball a study for years. Genuine horse hide covering. In carton.

Weight, ozs 6
Each $2 25

No. 0J—Official American League Junior. An exact duplicate in construction of No. 0, but is junior size and weight. 8-inch diameter.

Average weight per dozen, lbs 5½
Each $2.00

No. 4A—Superior League. Regulation size and weight. Rubber center, wool yarn horse hide cover. Weight, 6 ozs.
Each $1.50

No. 8—Cock of the Walk. Covered with horse hide and made regulation size. A good ball for practice. Weight, 6 ozs.
Each $0.75

No. 9—Junior League. Made junior size and weight, horse hide cover. A good lively ball. Weight, 5 ozs.
Each $0.75

No. 8A—Amateur League. Full size. Carefully made and has waterproof imitation leather cover. Weight, 5 ozs.
Each $0.50

No. 9B—Scout League. Junior size. Waterproof, imitation leather cover. Weight, 4 ozs.
Each $0.50

No. 11A—Youth Lively. Slightly below regulation size. Waterproof cover. Weight, 4 ozs.
Each $0 25

RECREATION, INDOOR AND PLAYGROUND

No. 300—Recreation ball, 9-inch. Weight, 2 ozs.
Each $1.25

No. 112—Indoor baseball, 12-inch. Weight, 7 ozs.
Each $2.50

No. 114—Indoor baseball, 14-inch. Weight, 10 ozs.
Each $2.75

No. 116—Indoor baseball, 16-inch. Weight, 12 ozs.
Each $3 00

No. P12—Official playground ball, 12-inch. Weight, 8 ozs.
Each $2.75

No. 50B—Playground ball, 14-inch. Weight, 8 ozs.
Each $1 75

No. 25B—Playground ball, 11-inch. Weight, 6 ozs.
Each $0.75

HANDLED SINGLE BIT AXES

RED CHIEFTAIN

Hand Forged from Genuine Black Diamond Crucible Steel Warranted free from Flaws or Soft Temper Accurately and Uniformly Punched Eyes Each Axe Bears an Attractive Red Chieftain" Gold Bronzed Label

BALTIMORE KENTUCKY PATTERN

Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs	3 to 4	3½ to 4½	4 to 5
Length of Handles	34	36	36
Per Dozen	$37.00	$37.50	$38.00

One dozen in a box, handles burlapped

PHILADELPHIA JERSEY PATTERN

Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs	2 to 2½	2½ to 3	3 to 3½
Length of Handles	32	32	32
Per Dozen	$37.00	$37.00	$37.00

One dozen in a box, handles burlapped.

BALTIMORE JERSEY PATTERN

Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs.	3½ to 4½	4 to 5	4½ to 5½
Length of Handles.	34	36	36
Per Dozen..	$37.00	$38.00	$38.50

One dozen in a box, handles burlapped.

RED WARRIOR Same Finish as Red Chieftan—Can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern or Weights as Listed Above.

HANDLED SINGLE BIT AXES

RED CHIEFTAIN

RED PAINTED BODY. GOLD BRONZED BORDER. POLISHED BIT AND POLL.

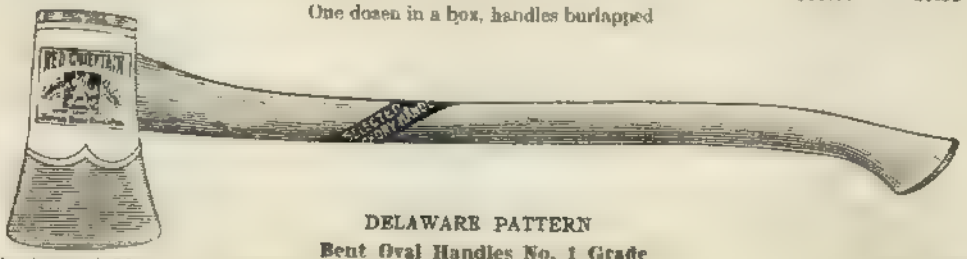
Hand Forged from Genuine Black Diamond Crucible Steel. Warranted Free from Flaws or Soft Temper. Accurately and Uniformly Punched Eyes. Each Axe Bears an Attractive Red Chieftain Gold Bronzed Label

DAYTON PATTERN

Bent Oval Handles No. 1 Grade

Weights Heads, Assorted, Lbs	3 to 4	3½ to 4½	4½ to 6
Length of Handles	34	34	36
Per Dozen	$37.00	37.50	38.50

One dozen in a box, handles burlapped



DELAWARE PATTERN

Bent Oval Handles No. 1 Grade

Weights Heads, Assorted, Lbs	3¼ to 3⅞	3½ to 4¼
Length of Handles	34	34
Per Dozen	$37.00	37.50

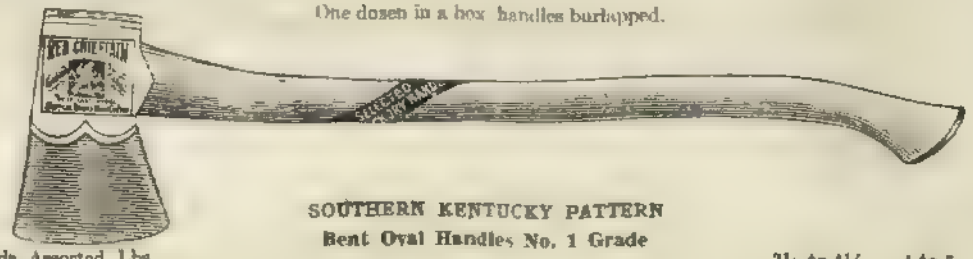
One dozen in a box, handles burlapped.

ROCKAWAY PATTERN

Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs.	3½ to 4
Length of Handles	34
Per Dozen	$38.00

One dozen in a box handles burlapped.



SOUTHERN KENTUCKY PATTERN

Bent Oval Handles No. 1 Grade

Weights, Heads, Assorted, Lbs	3½ to 4½	4 to 5	4½ to 6
Length of Handles	36	36	36
Per Dozen	$37.50	38.00	38.50

One Dozen in box, handles burlapped

RED WARRIOR—Same Finish as Red Chieftan—Can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern or Weights as Listed Above.

UNHANDLED SINGLE BIT AXES

"RED CHIEFTAIN"

RED PAINTED BODY. GOLD BRONZED BORDER. POLISHED BIT AND POLL.

Hand Forged From Genuine Black Diamond Crucible Steel Warranted Free From Flaws or Soft Temper. Accurately and Uniformly Punched Eyes. Each Axe Bears an Attractive "Red Chieftain" Gold Bronzed Label

Dayton

Delaware

Rockaway

DAYTON PATTERN

Weights, Assorted, Lbs	3 to 4	3½ to 4½	4½ to 6
Weight, Per Dozen, About Lbs	48	55	60
Per Dozen	$29.00	29.50	30.00

DELAWARE PATTERN

Weights, Assorted, Lbs	3¼ to 3¾	3½ to 4¼
Weight, Per Dozen, About Lbs	47	53
Per Dozen	$29.00	29.50

ROCKAWAY PATTERN

Weights, Assorted, Lbs	3½ to 4
Weight, Per Dozen, About Lbs	72
Per Dozen	$30.00

One dozen in a wooden case. Each wrapped in heavy paper.

Southern Kentucky

Baltimore Kentucky

Philadelphia Jersey

Baltimore Jersey

SOUTHERN KENTUCKY PATTERN

Weights Assorted Lbs	3½ to 4½	4 to 5	4½ to 6
Wt., Per Doz., Abt Lbs	55	60	70
Per Dozen	$29.50	30.00	30.50

BALTIMORE KENTUCKY PATTERN

Weights Assorted, Lbs	3 to 4	3½ to 4½	4 to 5
Wt., Per Doz. Abt Lbs	48	55	60
Per Dozen	$29.00	28.50	30.00

PHILADELPHIA JERSEY PATTERN

Weights, Assorted Lbs	2 to 2½	2½ to 3	3 to 3½
Wt., Per Doz., Abt Lbs	33	40	44
Per Dozen	$28.00	29.00	29.00

BALTIMORE JERSEY PATTERN

Weights, Assorted Lbs	3½ to 4½	4 to 5	4½ to 5½
Wt., Per Doz., Abt Lbs	55	60	65
Per Dozen	$29.50	30.00	30.50

One dozen in a wooden case, Each wrapped in heavy paper

RED WARRIOR—Same Finish as Red Chieftain—Can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern or Weights as Listed Above.

UNHANDLED SINGLE BIT AXES

BLACK HAWK

CHARCOAL FINISH

Genuine Black Diamond Crucible Steel Used in the Manufacture of These Axes. Hand Forged. Warranted Free From Flaws o Soft Temper An Attractive "Black Hawk" Embossed Label on Each Axe.

DAYTON PATTERN

Weights, Assorted Lbs	3 to 4	3½ to 4½	4½ to 6
Wt., Per Doz., Abt. Lbs	48	56	70
Per Dozen	$29.00	29.50	30.50

DELAWARE PATTERN

Weights, Assorted, Lbs	3¼ to 3¾	3½ to 4¼
Wt., Per Doz., Abt. Lbs	47	52
Per Dozen	$29.00	29.50

One Dozen in a wooden case. Each wrapped in heavy paper

BALTIMORE KENTUCKY PATTERN

Weights, Assorted, Lbs	3½ to 4½	4 to 5
Weight, Per Dozen, About Lbs	56	60
Per Dozen	$29.50	30.00

PHILADELPHIA JERSEY PATTERN

Weights, Assorted, Lbs	2 to 2½	2½ to 3	3 to 3½
Wt., Per Doz., Abt. Lbs	33	40	44
Per Dozen	$29.00	29.00	29.00

BALTIMORE JERSEY PATTERN

Weights, Assorted Lbs	3½ to 4½	4½ to 5½
Weight, Per Dozen, About Lbs	55	65
Per Dozen	$29.50	30.50

One dozen in a wooden case. Each wrapped in heavy paper

KELLY'S FLINT EDGE AXES—Natural Black Finish—Can be Supplied Direct From Factory in 5 Dozen Lots (No Less) Any Pattern or Weight as Listed Above.

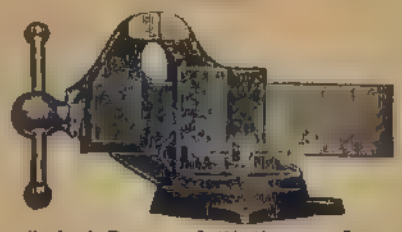
VISES
REEDS

All Reed vises are absolutely guaranteed against breakage. All parts are guaranteed to be interchangeable Cast iron japanned body Polished slide and specially tempered steel-faced jaws. Specialy tempered deep threaded steel screw. Tempered polished sliding lever handle

MACHINSTS

Swivel Base and Jaw

Nos.	R 402½	R 403	R 403½
Width jaw, in	2½	3	3½
Jaws open, in.	3	3⅝	4
Wght each, lbs	21	30	41
Each	$25 00	27 00	29 00
Nos.	R 404	R 404½	R 405
Width jaw, in.	4	4½	5
Jaws open, in.	4⅜	5½	6½
Wght each, lbs	55	71	97
Each	$36 00	44 00	54 00
Nos.	R 405½	R 406	R 407
Width jaw, in.	5½	6	7
Jaws open, in.	7¾	9	11½
Wght each, lbs	140	157	217
Each	$80.00	100.00	125.00



Swivel Base and Stationary Jaw

Nos.	R 203	R 203½
Width of jaw inch	3	3½
Jaws open, inch	4	5
Weight each, lbs	28	36
Each	$21 50	24 00
Nos.	R 204	R 204½
Width of jaw, inch	4	4½
Jaws open, inch	6	7
Weight each, lbs	50	64
Each	$27 00	33 00
Nos.	R 205	R 205½	R 206
Width jaw, in.	5	5½	6
Jaws open, in.	8	9	10
Wght each, lbs	87	118	147
Each	$50 00	65.00	87 00

Stationary Base and Jaw

Nos.	R 103	R 103½
Width of jaws, inch	3	3½
Jaws open, inch	4	5
Weight each, lbs	21	29
Each	$17 00	19 00
Nos.	R 104	R 104½
Width of jaws, inch	4	4½
Jaws open, inch	6	7
Weight each, lbs	40	54
Each	$22 00	26 00
Nos.	R 105	R 105½	R 106
Width jaw, in	5	5½	6
Jaws open, in.	8	9	10
Wght each, lbs	70	105	128
Each	$35 00	52.00	67 00

Stationary Base and Swivel Jaw

Nos.	R 304½	R 305½	R 306
Width jaw, in	4½	5½	6
Jaws open, in	5½	7⅜	9
Wght each, lbs	64	116	141
Each	$35.00	65.00	87 00

WOODWORKERS

Swivel Base and Stationary Jaw

No.	R 224½
Width of jaws, inch	4½
Jaws open, inch.	11
Weight each, lbs	65
Each	$37.00

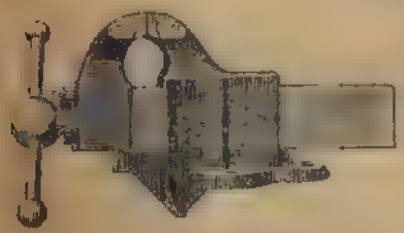
Stationary Base and Jaw

No.	R 124½
Width of jaws, inch	4½
Jaws open inch	11
Weight each, lbs	60
Each	$30.00

PARKER

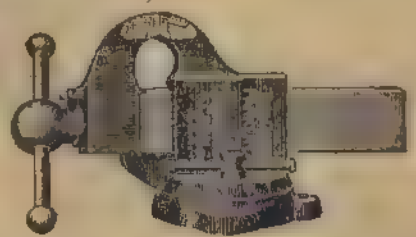
Casting of semi steel with extra large steel cut screw and nut. A solid steel bar is inserted through the entire length of slide which makes it practically unbreakable The faces are renewable and made of tool steel milled and fitted Set screw and spring tension holds lever at any desired position

MACHINISTS



Stationary Base and Jaw

Nos.	49	59	69
Width of jaws, inch	4¼	4¾	5⅛
Jaws open, inch	7	8	9
Weight each, lbs	66	83	125
Each	$31 00	42.00	56 00



Swivel Base and Stationary Jaw

Nos.	249	259	269
Width of jaws, inch	4¼	4¾	5⅛
Jaws open, inches	7	8	9
Weight each, lbs	78	96	148
Each	$37.00	56.00	62.00

PIPE COMBINATION

Swivel Base

Nos.	57	58	2581½	2591½
Width jaws, in	3½	4½	5	6
Jaws open, in	3	5	6	9½
Wgt each, lbs	47	71	118	185
Each	$30.00	40.00	62.00	85.00

All above, loose.

PUNCHES

COMBINATION PUNCH AND SHEAR
PECK, STOW & WILCOX

Suitable for both cutting and punching metal. Capacity of shear and punch, 5⅛-inch cut. Will punch ⅜-inch iron. Equipped with 5 punches, sizes ⅛, ⅜, ¼, ⅝, ⅝-inch.

No.	22
Weight each, lbs	120
Each	$88 00
Extra Punches	Each 1 80
Extra Dies	" 3.75

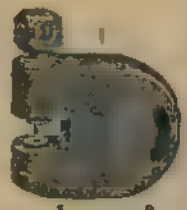
METAL
ELM CITY

This punch is made of high grade steel with parallel dies and a gauge to set the holes. Has ⅛-inch opening between the jaws and will punch a hole 1 inch from the edge of metal to center of hole. If the metal is not harder than regular cold rolled stock, the ¾-inch dies will punch No. 14 gauge metal, the ⅝-inch dies will punch No. 13 gauge metal and the ⅛-inch dies No. 10 gauge metal.

No.	17
Dies inch	⅛
Length, inch	9
Weight dozen, lbs	12
Each	$5 75
Extra Dies—⅜ and ¼-inch.	Per set 1 25

Set dies consists of one male and one female.
One in cardboard box.

BOILER MAKERS SCREW



Forged steel body. Natural finish. High grade tool steel punch and die.

Nos.	1	3
Size of hole, inch	¼ to ⅜	½ to ⅞
Thickness of iron, inch	⅜	¾
From edge, inch	1½	3¼
Weight each, lbs.	20	66
Each	$30 00	60.00

EXTRA PUNCHES AND DIES

Nos.	1	3
Size, inch	¼, ⅜, ⅜	½, ¾, 1
	⅜, ½, ⅝	½, ⅞, ⅝
Punches	Each $2 10	3 00
Dies	" 2 10	3 00
Complete set, 6 sizes punches and dies	" 25.00	26.00

PORTABLE
WHITNEY

Drop forged lever handles. Punch and die made of best tool steel. Strongly reinforced where strain comes. Furnished with 1 extra ¼-inch punch. The size of the punch can be instantly changed by throwing over the lever handle and raising the intermediate piece. The following extra dies and punches carried in stock: ⅛, ⅜, ⅜, ¼, ⅜, ⅝, ⅝, ¾, ⅞ and ½-inch. Adapted for sheet metal workers.

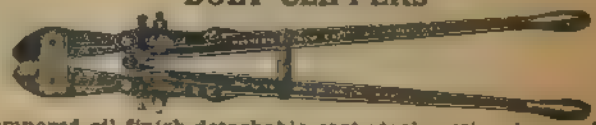
No.	2
Length over all, inch	23
Length of throat, inch	2
Capacity of iron, inch	¼
Weight each, lbs	15
Each	$30 00

CHANNEL IRON

Same general description as No. 2 for punching channel iron. Punches to center of 4-inch channel iron with 1½-inch flange. All parts interchangeable with No. 2 punch. Same punches and dies and all other small parts can be used in both.

No.	2C
Length over all, inch	23
Capacity iron, inch	¼
Size of throat, inch	2x2¼
Weight, lbs.	18
Each	$30 00
Extra Punches for Nos. 2 and 2C	Each 1.30
Extra Dies for Nos. 2 and 2C	" 1.30

BOLT CLIPPERS



Tempered oil finish detachable cast steel cutting jaws. Japanned cast iron compound lever handle with socket joints. Rubber bumpers between handles. No. 3S is made especially for cutting steel wire, wire rope. Special temper.

	Porters New Easy				Allen Randall
Nos.	0	1	2	3	3S	4
Length, inch	18	24	30	36	36	42
Cut bolts up to, inch	⅜	⅝	½	⅝	⅝	¾
Weight per pair, lbs.	3	6½	9	13	13	19
Per pair	$5 25	7 00	10 20	13 00	13 00	14 00

EXTRA JAWS FOR BOLT CLIPPERS

	New Easy				Allen Randall
Nos.	0	1	2	3	3S	4
Weight pair, lbs	¾	1¼	2	3	3	4
Extra Jaws Per pair	$2 85	3 50	5 00	6.50	6.50	7 50

No. 3S, special temper.

PORTERS O. K.

Clipper jaws. Large bevel on top and small bevel on bottom side for trimming bolts and rivets requiring nearly flat ends.

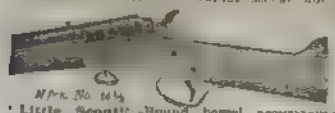
Nos.	10	14
Length over all, inch	10	14
Capacity of jaws, inch	⅜	¼
Weight per pair, lbs	1¾	2¼
Per pair	$2.75	3.25

FIREARMS

[illegible] Butler Bros. are [illegible] of every [illegible] Notice [illegible]

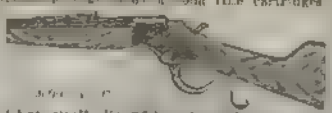
STEVENS' 22 CAL. TAKE DOWN RIFLES

Blued steel barrels, walnut stocks and [illegible] rifle cartridges



Mfrs. No. 044

"Little Scout"—Round barrel accurately rifled, knife front and open rear sights. 3½ lbs. 1 in box
1K6160—22 cal., 18 in. . . . Each, $4.30



"Favorite"—Round barrel [illegible] automatic ejector [illegible]
[illegible] Each $7.85

Mfrs. No. 38

"Crack Shot"—Round barrel, break down lever action, knife front and open rear sights. 3½ lbs. 1 in box
1K6461—22 cal., 18 in. ..... Each, $5.25

STEVENS' VISIBLE LOADING REPEATING RIFLE

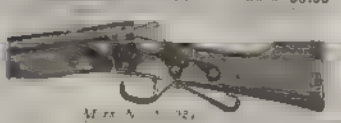
1K6170—22 cal., [illegible] tube extractor, [illegible] trombone action, positive hammer and [illegible] Each, $12.75

"Marksman"—Round barrel, break down [illegible] front and open rear [illegible]
[illegible] Each $6.50

STANDARD MODEL 1899 SAVAGE REPEATING RIFLE

1K6232—25 cal., Hi-Power barrel, feather weight [illegible] great killing force, walnut stock and [illegible] blued steel barrel. 1 in box
Temp. Out

HAMILTON 22 CAL. RIFLES



Mfrs. No. [illegible]

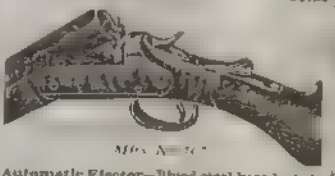
[illegible] 22 cal., takes 22 short or long [illegible] 1K6525, Oval walnut stock and [illegible]
Temp. Out

STEVENS' SINGLE BARREL SHOT GUNS

[illegible] Steel barrel and [illegible] fearless low rebounding hammers, [illegible] shot [illegible] box [illegible]

Mfrs. No. 10

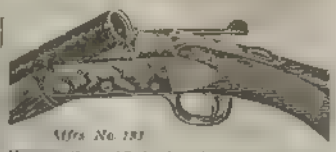
Plain Extractor—Blued steel barrel, choke bored, half pistol grip, 6 lbs. 1 in box
1K6177—12 gauge, 32 in. . . Each $9.25
1K6178—16 " 30 " . .



Mfrs. No. 70

Automatic Ejector—Blued steel barrel, choke bored, half pistol grip, 6 lbs. 1 in box
1K6163—12 gauge, 32 in. . . Temp. Out
1K6153—16 " 30 " . . . Each, $8.75

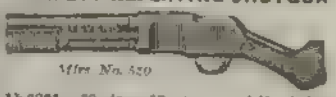
Automatic Ejector—Blued steel barrel, choke bored, half pistol grip, 6 lbs. 1 in box
1K6[illegible] $8.75



Mfrs. No. 181

Hammerless—Choke bored, checkered stock and fore-end, rubber capped, full pistol grip, automatic safety ejector.
1K6187—410 gauge, 26 in. . Each, $15.00

STEVENS' HAMMERLESS SAFETY REPEATING SHOTGUN



Mfrs. No. 520

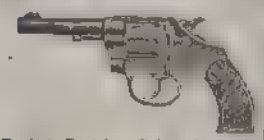
1K6201—30 in., 12 gauge, full choke, Browning action, high pressure, Blued steel barrel, 6 shot, hammerless, visible locking block, safety, [illegible] pistol grips, walnut stock and [illegible] takes down in 8 seconds, [illegible] lbs. 1 in box $33.50

PYRAMID SOLVENT

Put up by the makers of "3-in-1" oil. No acid, removes powder fouling residue from [illegible] barrels
1K6[illegible] . . . . Per Doz. $2.40

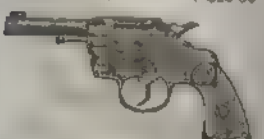
COLT REVOLVERS

The standard government, police and military arms of the world [illegible] Pocket Positive—Takes S. & W. [illegible] Each $25.10

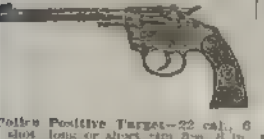


Police Positive—Takes S. & W. short and long, and Colt police [illegible] and gallery loads. [illegible] 1 in box
1K6006—[illegible] Each $27.25
[illegible] 27.25

Police Positive Special—Takes S. & W. [illegible] short or long [illegible] 1 in box
1K6006—[illegible] Each
1K6007—38 cal. $28.35



Army Special—[illegible] Each $30.50



Police Positive Target—22 cal., 6 shot, long or short rim fire. [illegible] For [illegible] Each $30.50

COLT AUTOMATIC PISTOLS

[illegible] safety lock, [illegible]

Vest Pocket Model—[illegible] slide. [illegible] 1 in box.
1K6075—25 cal. Each $18.00

Regular Automatic—8½ in. over all, [illegible] takes regular cartridge
[illegible] Each $21.60

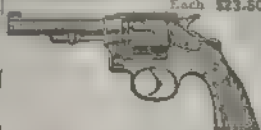
Target Model—[illegible] [illegible] 1K6074—22 cal. Each $32.75

Pocket Model—[illegible] takes rimless cartridge
1K6078—38 cal. . . Temp. Out

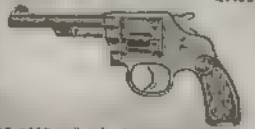
Military Model—[illegible] all [illegible] takes rimless cartridge. [illegible] open when magazine is empty. Adopted by U. S. Government
[illegible] Each $33.75

SMITH & WESSON REVOLVERS

Safety Hammerless—6 shot, takes S. & W. cartridge, safety grip [illegible] Each $23.50



Double Action—Regulation police model, solid frame, rebounding hammer, checkered wood stock, 17½ oz.
[illegible] $27.50
[illegible] 27.50
[illegible] 24.50
[illegible] 27.50



1K6410—32 cal. [illegible] 6 shot, [illegible] S. & W. [illegible] out cylinder, double action, rubber [illegible]

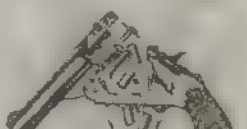
1905 Military Model—6 shot, solid [illegible] S. & W. [illegible] Each $29.00
[illegible] S. & W. special [illegible] Colt cartridge Temp. Out
1K6012—38 cal., 6 in. barrel, 35 oz., takes Winchester cartridges
Temp. Out

FISHING TACKLE
We call your attention to our [illegible] line of fishing tackle, popular [illegible] and sold [illegible] Prices [illegible] grades of [illegible] advertised lines

IVER JOHNSON REVOLVERS

[illegible] Each in box with [illegible]

Automatic Safety Hammerless—5 shot, automatic shell ejector, adjustable main spring, rubber grip.
[illegible] CAL., 3½ IN. BARREL, 19 oz.
1K6011—Nickeled . Each, $11.75
1K6014—Blued. . . . 12.05
38 CAL., 3½ IN. BARREL, 19 oz.
1K6013—Nickeled . Each, $11.75
1K6014—Blued. . . . 12.05



Automatic Safety Hammerless [illegible] CAL., 3 IN. BARREL, 13½ oz. [illegible] Each $11.00
[illegible] 11.30
38 CAL., 3½ IN. BARREL, 19 oz.
1K6008—Nickeled Each $11.00
1K6010—Blued " 11.30

SAVAGE AUTOMATIC PISTOLS—Model 1907

Blued steel frame, rubber grips, safety grip and guard, 10 shot visible loading, 10 oz., 8½ in.
1K6085—32 cal. Each $20.75
1K6086—38 cal. 22.00

METALLIC CARTRIDGES

[illegible] each [illegible] shooting [illegible] perfect to [illegible]

1K9400—B. B. Caps Per M, $2.62
1K9201—25 Short Lesmoke R. F. [illegible] $3.74
1K9205 [illegible] $4.00

1K9202 [illegible] Per M, $4.48
1K9203—32 Long, Smokeless R. F. [illegible] $5.61

1K9206 [illegible] Per M $5.23
1K9204—32 Long Rifle Smokeless, C. F. Per M $6.54
1K9230—32 cal. Winchester (made 1890) R. F. Lesmoke Per M, $7.86
1K9231—32 cal. Winchester, model 1890, R. F. Smokeless Per M $8.76
1K9232 [illegible] M $8.76
1K9213—25-20 Winchester Nubless C. F. [illegible] M $20.92
1K9211 [illegible] Per M $21.66
1K9221 [illegible] M $8.76

1K9207 [illegible] Per M $14.38
1K9212—32 S. & W. Smokeless C. F. Per M $15.68
1K9214—32 S. & W. Long Nubless C. F. Per M $15.69
1K9215—32 Automatic M. P. C. P. [illegible] M $23.54
1K9209 [illegible] W. Chester [illegible] [illegible] M $20.92
1K9208 [illegible] M $17.56
1K9220 [illegible] M $20.36

1K9210 [illegible] Per M $21.66
1K9230—38 S. & W. Special Smokeless [illegible] M $24.28

BLANK CARTRIDGES

[illegible] [illegible] [illegible] [

FISHING TACKLE

Showing the most popular sellers in a wide range of kinds and prices. No other stock in the present market allows you to buy as economically and efficiently as this one. Our prices are low because we buy and sell in huge quantities. You profit when you buy from Butler Brothers.

COTTON HANK AND COIL LINES

"Guild Medal"—White twisted cotton 20 ft. hanks, clean white finish. 1 doz. in bdl., ½ gro. in box.

Item	Size	Gro.
1K2100	1 light	$1.95
1K2101	2	2.10
1K2102	6 medium	2.50
1K2103	7	3.00
1K2104	9 heavy	3.75
1K2105	12	4.25

Braided Sea Island Cotton—25 ft. hanks, assorted sizes, 1 doz. on card.

Item	Size	Total	Doz.
1K2110	5 light	51 yds.	42c
	Gro.		$4.75
1K2111	4 med.	144	48c
	Gro.		$5.50
1K2112	9 hvy.	250	60c
	Gro.		$6.50

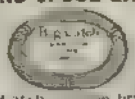
Assid. Braided Sea Island Cotton—Assorted sizes and weights, 1 doz. on card.

1K2115—Assid. light and heavy. Dozen in box. Doz. 48c
(Total $1.44) Gro. $6.50

"Samson" Braided Sea Island Cotton—44 yd. 1 lb. hanks, assorted sizes, hard sea cotton finish, 1 doz. hanks on card.

Item	Size	Doz.
1K2120	Light	$1.50
1K2121		1.65
1K2122	medium	1.75
1K2123		2.10
1K2124	heavy	2.50
1K2125		3.15
1K2126	1st extra hvy.	3.60
1K2127	2nd	4.95

CARDED, BLOCK AND SPOOL LINES



"Big 4 Arch ... Braided Sea Island cotton.

1K2135—25 ft. on card. 3 doz. cards in box. (Total $1.44) Doz. 72c
Gro. $8.25

"Arrawanna" Mottled — 40 thread, green & bronze mottled, hard braided Sea ... box.

1K2145—Size G, test 35 lbs. Doz. $12.50 Doz. $1.10

Nonpareil Imitation Cuttybunk—Hard braided ... thread, twisted ... box.

Trade Size	Doz.
1K2150—3	$1.65
1K2151—12 medium	1.85
1K2152—5 heavy	2.10

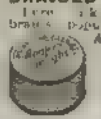
Braided Lisle—Hard braided lisle thread 50 ft. on paper covered wood block. 1 doz. ...

Doz. $1.35

Onita Linen "Cuttybunk"—... hard ... wood ... box.

1K2160—... lbs. $5.50
1K2161—... 6.10
1K2162—... 6.75

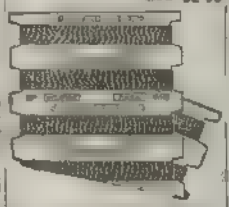
BRAIDED SILK LINES



... braided silk ... "Anglers' Delight" Black & white mottled, square braid 50 yds. on ... spool ... box.

1K2130—Trade size G. Box $1.80

1K2131—Trade size E. Box $2.50



Oiled Silk Mottled genuine braided silk, waterproof oiled finish, 50 ft. on winder, 2 winders connected, 1 doz. in box.

Trade Size	Test	Box
1K2140—5	12 lbs.	$1.95

Bass King" Trade size 4, test 20 lbs. black & white mottled soft lustrous silk, especially braided for bait casting 50 yds. on long ... glass protector tube ... perfect ... box.

... box $3.50

Gold Seal" ... box.

1K2177—Size "E," test 28 ... Box $4.50

"KINGFISHER" BRAIDED SILK LINES

"Little Jap" Casting—Strong ... Jap ... 50 yds. on spool 2 spools in box.

Item	Trade size	Box
1K2180—5	test 12 lbs.	$3.00
1K2181—4	" 16 "	4.00

Waterproof Bait Casting ... soft ... water-proofing ... box.

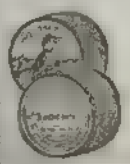
Item	Size	Test	Box
1K2185	5	12	$3.15
1K2186	4	16	4.20
1K2187	"	24	4.85

Bait Casting ... box.

1K2194—Size 5. Box. $2.45
1K2195—" 4 " 3.10

"Saltene" ... Soft ... silver ... box.

Trade size	Box
1K2197—H, test 14 lbs.	$3.94
1K2198—G, " 16 "	4.50
1K2199—F, " 24 "	5.10



Diamond Back—Black and white silk ... braided over braided white core. A good ... line for general use. 50 yds. on spool 2 spools in box.

Trade Size	Test	
1K2185—20,	20 lbs.	Box. $5.25
1K2186—25,	25 "	" 6.00

"LAND-EM" BRAIDED SILK CASTING LINE ASST.

1K2167 ... colors, average 75c value 25 yds. on spool 1 doz. assrd. ... Doz. $5.00

"GOLD MEDAL" CUT LEADERS

Selected quality. 1 on card.

Trout—2 ft. single mist color
1K2941—1 doz. in env.
Gro. $9.00 Doz. 87c

Bass—3 ft. double, mist color.
1K2642—1 doz. in env.
Doz. $1.65

SOUTH BEND SILK FISH LINES

Cast-Oreno— ... Black ... braid ... box.

Item	Test	Box
1K2190	12 lb. test	$2.00
1K2191	15 "	2.25
1K2192	18 "	2.60
1K2193	"	3.75

Black-Oreno— ... Black color hard braid waterproofed, durable, long wearing. 50 yds. on spool, two spools or 100 yds. connected in box.

Item	Test	Box
1K2168	14 lb. test	$2.25
1K2170	18 "	3.25
1K2171	28 "	3.90

especially adapted for trolling.

Box $3.90

Anti-Back-Lash—Black and white ... for ... or casting as the name implies. 50 yds. on spool, two spools or 100 yds. connected in box.

1K2173—12 lb. test, Box. $2.45
1K2173—18 lb. test, Box $2.85
1K2174—25 lb. test, Box $3.75

ENAMELED BRAIDED SILK LINES

For Fly Casting or Trolling

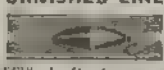
Star ... Oiled ... braid ... box.

1K2180—Size ... test ... lbs. Box $3.00
1K2181—Size F, test 15 lbs. Box $3.50
1K2182—Size ... lbs. Torpedo ...

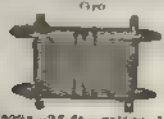
"Saltene" ... Green ... finest transparent ... braid enamel finished. ... round card ... and 100 yds. connected ...

1K2183—Trade size H ... $3.80
1K2184—Trade size ... $4.15
1K2185—Trade size ... $4.85

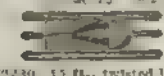
FURNISHED LINES



1K2200—... ft. ... hair ... braid cotton ... rubber ... socket barrel fly ... 1 doz. in box..... Doz. Out
Gro.

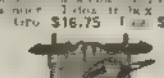


1K2205—25 ft., cotton, linen mesh, Kirby hook, large egg shape sinker, frame winder. 1 doz. in box.
$2.75 ... 75c



1K2210—25 ft., twisted linen ... Kirby hook, 2-color enameled egg float, ringed hook, black enameled frame winder. 1 doz. in box.
Gro. $14.25 Doz. $1.25

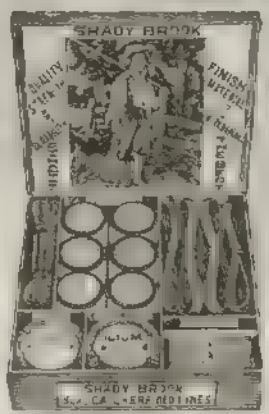
1K2224—25 ft., green linen ... braided ... hook ... enameled ... winder. 1 doz. in box.
Gro. $16.75 ... $1.50



1K2230—25 ft., green linen ... braided ... hook, enameled egg float, 3 color ... sinker, enameled winder. 3 doz. in box.
Doz. $1.95

FISHING LINE AND TACKLE ASSORTMENTS

Expertly selected assortments offered at prices that will enable you to sell at low figures and withstand competition.



"Shady Brook" Fishing Line Asst—6 kinds ... braided Sea Island cotton ... Gro. $10.05 ... $4.65 ... contains display case, each division marked with suggested retail price, 12x18 hinged cabinet with colored art picture. Asst. comprises:

	Total Retail	Price
18 assorted ... hanks green ... braided Sea Island cotton	$10.05	$4.65
6 only 50 ft. ... hanks green ... braided Sea Island cotton	1.80	1.20
6 only 50 ft. hanks green ... braided Sea Island cotton	15	.8
10 only 6 ft. cards braided lisle, thread	.25	.20
6 only 50 ft. blocks braided lisle thread	.15	.09
6 only 40 yd. spools braided lisle	.15	.10
Total retail value		$13.00

1K2215—1 asst. in box. ASST. **$4.50**

"Victor" Fishing Asst—Contains ... variety of popular priced staple hooks, sinkers, lines and floats.

	Retail	Total
500 Kirby Rings Hooks 2 for 1	$2.50	
100 Kirby Hooks	1c	1.00
	Ea.	
1 ...	...	2.00
1 ...	5c	.5
1 ...	10c	.10
2 Brass Floats	5c	.10
1 ...	5c	.05
1 ...	1	.5
2 Brass Split Shot Sinkers	5c	.10
1" Hanks 12 ft. Line small	1c	.12
1" Hanks 15 ft. Line med.	2c	.24
1" Hanks 15 ft. Line large	3c	.31
...	5c	.5
...	1	.5
2 Brass Split Shot Sinkers	5c	.10
2 Brass Split Shot Sinkers	5c	.10
Total retail price		$4.11

1K2748—Tackle Assortment
ASST. **$4.50**

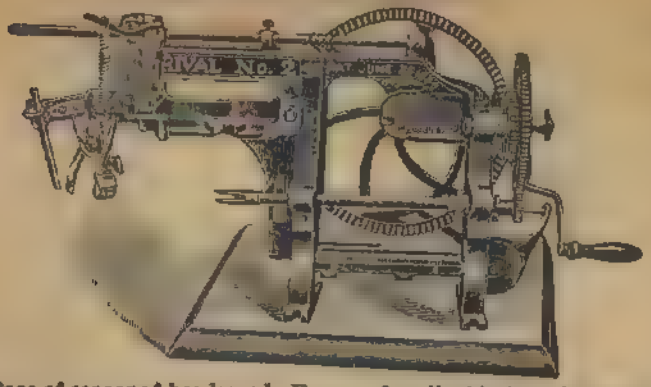
"Universal" Fishing Tackle Asst—... popular and medium priced items in every day demand.

	Retail	Total
500 Kirby Fish Hooks, 2 for 1c	$2.50	
100 ... Hooks	1c	1.00
50 ... Hooks	1c	.50
1 ...	1c	1.00
1 ...	5c	.5
1 ...	10c	.10
1 ...	1c	.5
12 Hanks 10 yd. Line ...		1.20
18 Furnished Lines ...	4c	.72
6 Furnished Lines ...	10c	.60
6 Furnished Lines ...	15c	.90
2 Brass ... Sinkers	5c	.10
Total retail price		$5.8

1K2749—Tackle Assortment
ASST. Out

FISHING RODS that will be of special interest to you are shown on another page. See the index for page number.

RIVAL APPLE PARERS

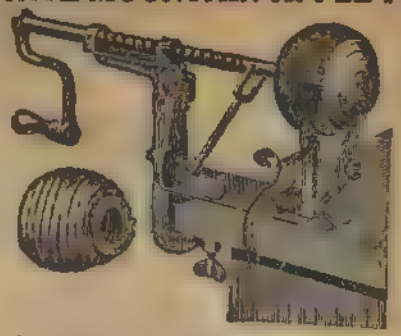


Base of seasoned hardwood. Frame of malleable iron, lacquered. Important bearings have brass bushings. Blade of highly tempered steel, ground and sharpened. Steel fork. Machine will pare, pare and core, or pare, core and slice. For use in canning establishments, hotels or restaurants.

No.	296
Capacity per day, bushels	40 to 60
Shipping weight each, lbs	47
Each	$36.00

One in a case.

WHITE MOUNTAIN APPLE PARERS



Lacquered iron frame with automatic push-off. Steel blades. Pares, cores, slices and pushes off the fruit.

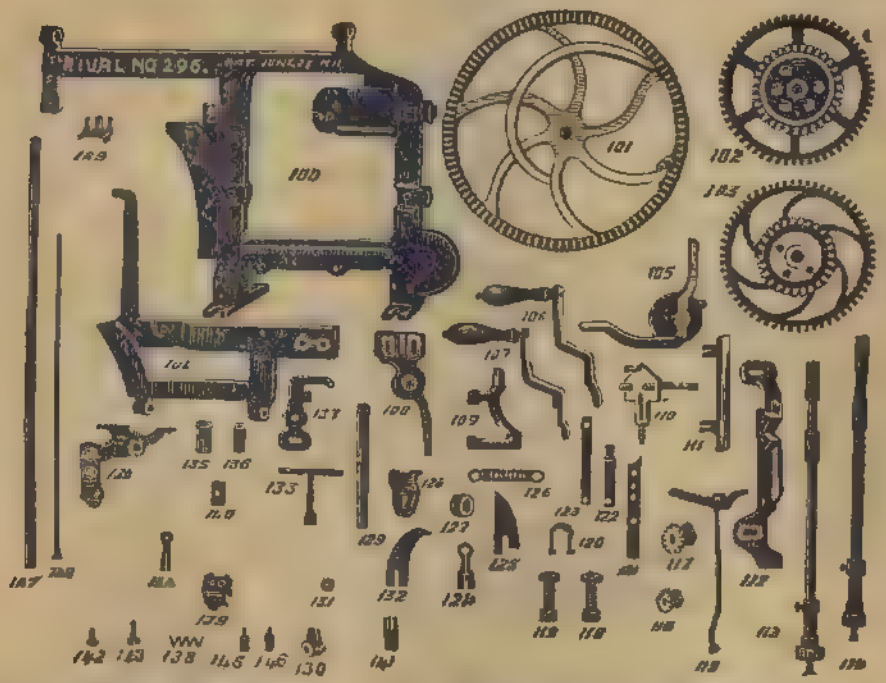
Length over all, inch	9
Height above table, inch	6½
Shipping weight per dozen, lbs.	23
Per dozen	$24 00

REPAIRS FOR WHITE MOUNTAIN

Springs	Each	$0 15
Push-off	"	.25
Slicing knives	"	25
Rod	"	.55

One dozen in carton.

REPAIRS FOR RIVAL APPLE PARERS



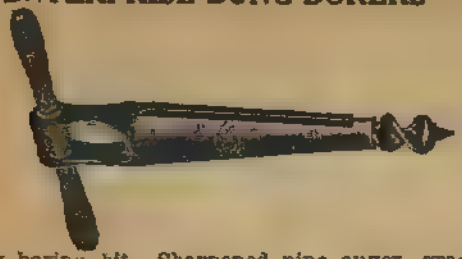
No. 100—Frame for either No. 1 or 2	Each	$5.00
No. 101—Cam Gear	"	2.40
No. 102—Crank Gear for No. 2	"	2.00
No. 103—Crank Gear for No. 1	"	2.00
No. 104—Carriage	"	3.00
No. 105—Push-off Lever	"	1.00
No. 106—Crank and Handle for No. 2	"	.50
No. 108—Corer Bracket	"	.40
No. 109—Turn-table Bracket	"	.60
No. 110—Turn-table and Shaft	"	.60
No. 111—Guide for Foot	"	.40
No. 112—Rack	"	.60
No. 113—Fork Shaft for No. 1	"	2.00
No. 114—Fork Shaft for No. 2	"	2.00
No. 115—Knife Arm	"	.40
No. 116—Fork Shaft Gear for No. 2	"	.60
No. 117—Fork Shaft Gear for No. 1	"	.50
No. 118—Pivot Bolt for Corer.	Each	$0.40
No. 119—Pivot Bolt for Push-off Lever	"	.50
No. 120—Clamp for Coring Tube	"	.20
No. 121 Spoon Corer	"	.25
No. 122—Pivot Bolt for Cam Gear	"	.50
No. 123—Pivot Bolt for Crank Gear	"	.40
No. 146—Stud Pin for Push-off Lever	"	.30
No. 147—Guide Rod	"	1.00
No. 148—Push-off Rod	"	.20
No. 149—Paring Knife	"	14
No. 150—Slicer Knife Arm	"	.50
No. 151—Slicing Knife Bolt	"	.06
No. 152—Rival Trimmer	"	.30
No. 153—Washers	Dozen	.10
No. 154—Bolt for Slicer Knife Arm	Each	.06

No 124—Knife Arm Support	"	.20
No 125—Straight Slicer Knife	"	.24
No 126 Knife Arm Spring	"	.24
No. 127—Fork Shaft Collar	"	.24
No 128 Fork Shaft Cap	"	.10
No 129—Coring Tube	"	.50
No 130—Knife Arm Adjuster.	"	.20
No 131—Washers	Dozen	.06
*No 131A—Knife Washers	"	.06
No 132 Lip Slicer Knife	Each	.24
No 133 Key Wrench	"	.20
No. 134—Corer Arm with Clamp	"	.70

*For factory shipment only.

No 135 -Fork Shaft Bushing.	"	.30
No 136—Plug to hold Spoon Corer	Each	$0.10
No. 137—Bracket for throwing back Knife Arm.	"	.50
No. 138—Guide Rod Spring	"	.10
No. 139—Knife Head, complete	"	.70
No 140 -Guard for Knife	"	.06
No 141—Steel Fork	"	.30
No. 142—Screws	Dozen	.20
No. 142A—Guard Screws	"	.30
No. 143—Small Bolts	Each	.06
No. 144—Spring Key	"	.06
No. 145—Cam Guide Stud Pin.	"	.20

ENTERPRISE BUNG BORERS



Temporary boring bit. Sharpened pipe auger, graduated in inches and quarter inches. Steel.

Nos.	1	2	3
Bore, diameter, inch	⅝ to 1⅛	1⅛ to 2	1⅛ to 3
Dozen in case	1	1	⅓
Net weight each, lbs	1	2	3½
Shipping weight per case, lbs.	28	38	35
Each	$3.60	5.00	7.20

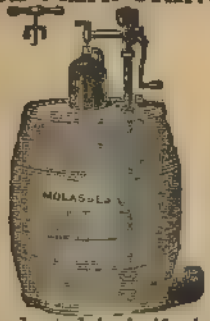
Extra Bits

Nos.	1 B	2 B	3 B
Each	$1.75	2.40	4.00

Extra Handles

Nos.	1 H	2 H	3 H
Each	$0 70	:70	.90

ENTERPRISE MEASURING PUMPS



Self-priming. Dial graduated in half pints. Four revolutions of crank pumps one pint. Total registering device for molasses, thick oils, tar, etc. Valve and strainer attached to tube.

No.	97 B
Length over all, inch	64
Shipping weight each, lbs.	31
Pump only	Each $20 00
No.	97 C
Net weight each, lbs.	1
Auger only	Each $3.00

ENTERPRISE MEASURING FAUCETS

Malleable iron, retinned. Dial graduated to measure gallon or fractional parts. Four revolutions of handle draws pint. For molasses, varnish, thick oils, tar, etc.

No.	61
Height, inch	6½
Length over all, inch	11½
Diameter inlet opening, inch	1½
Diameter outlet, inch	⅝
Dozen in case	½
Net weight each, lbs.	7½
Shipping weight per case, lbs.	65
Each	$9 00
Extra cranks	Each .75

MOLASSES AND OIL GATES

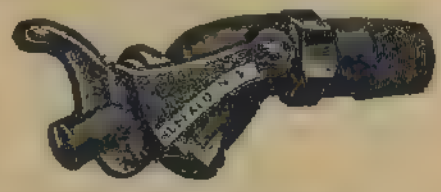
LOCKFAST

Cast iron, japanned. Brass cut-off. Loop on top to insert padlock. Padlock not included.

Nos.	L 50	L 75	L 100	L 125	L150
Length, inch	7	7	7½	7½	7½
Diam. thread outside, inch	¾	1	1¼	1⅜	1¾
For iron pipe, inch	⅜	¾	1	1¼	1½
Net weight per dozen, lbs.	15½	19½	25	30	41
Per dozen	$13 20	15.40	17.60	20.35	24.20

Nos. L50 and L75, one-half dozen, balance one-quarter dozen in cardboard box.
Shipping weight adds 20% to net weight.

PERFECTION



Cast iron, japanned. Faces of gate and valve ground and perfectly fitted. Brass cut-off held by tension spring.

IRON PIPE THREAD. STRAIGHT SHANK

Nos.	50 P	75 P	100 P	125 P	150 P	200 P	300 P
Length, inch	6½	7	7	7¼	7½	8	8½
Dia thrd out, in	¾	1	1¼	1⅝	1⅞	2¼	3⅛
For iron pipe, in	⅜	¾	1	1¼	1½	2	3
Threads to inch	14	14	11½	11½	11½	11½	8
Net wgt doz, lbs	13½	15	19½	24	33	47	84
Per dozen	$13.20	15.40	17.60	20.35	24.20	33.00	55.00

WOOD THREAD. TAPER SHANK

Nos.	50W	75W	100W	125W	150W	200W
Length, inch	6½	7	7½	8	8½	9¼
Diam thrd outside, in.	¾	1	1¼	1½	1⅝	2¼
Diam, inside, inch	½	¾	1	1⅛	1⅜	1¾
Threads to inch	18	18	16	16	16	16
Net weight dozen, lbs.	13½	15	21	29½	37	54
Per dozen	$12.00	14 00	16 00	18.50	22.00	30.00

No. 50, one dozen; balance, one-half dozen in box.
Shipping weight adds 20% to net weight.

STERBINS

Cast iron, japanned. Gate swings on pivot. Set screw regulates tension.

WOOD THREAD ONLY

Nos.	1	2	3	4	5
Length, inch	4¾	5¾	6¼	6½	7
Diameter of thread, inch	1	1⅛	1⅛	1¾	2⅛
Diameter inch, inside	¾	⅞	1	1¼	1½
Threads to inch	16	16	16	16	...
Net weight per dozen, lbs.	10	13	23	25½	31
Per dozen	$7.00	8.00	9.00	10.00	12.00

One-half dozen in box.
Shipping weight adds 20% to net weight.
Lengths and weights vary slightly in gates from different factori[illegible]

BILL POSTERS' OR ADVERTISERS' HAMMERS

ROBERTSON'S HORSE SHOE MAGNET

HAMMERHEAD AND HANDLE TRIMMINGS NICKEL PLATED

Forged Steel, Nickel Plated. Magnetized Hardened Face. Select White Ash Handles. Card Holding and Tack Spring Attachments. Jointed Handle.

	Per Dozen
No. 502 5-Oz. Head, 36 Inches (2 18-Inch Sections)	$44.00

Sixth dozen in a box

CRATE AND CASE OPENERS

NOX TOX

	Per Dozen
No. 21—Combination Case Opener and Hammer. Forged and Tempered. Black Finish and Highly Polished. Length, Over All, 8½ Inches. Weight, Per Dozen, About 12 Lbs.	$10.00

Half dozen in a box

POST MAULS

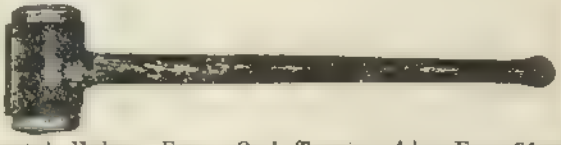
JAPANNED CAST IRON HEAD

34-inch Selected Hickory Varnished and Painted Handle

No. 12 Weight of Head, Lbs.	12	14	16	18
Each	$3.00	3.30	3.60	4.05

EXTRA HANDLES

	Per Dozen
No. 12EH Varnished and Painted 34 Inches	$6.30



Inserted Hickory Faces. Oval Tapering Adze Eye 34-inch Handle.

No. 15—Weight of Head, Lbs.	10	12	15
Per Dozen	$17.85	20.25	25.00

EXTRA HANDLES

	Per Dozen
No. 15EH—Select Hickory Handle, 34 Inches	$3.00

EXTRA FACES

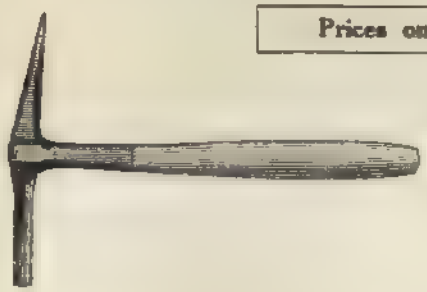
No. 15EF—Hickory, Diameter, 3½ Inches	2.40

Headquarters for Bicycles and Sundries

See Separate Catalog

UPHOLSTERS' AND TACK HAMMERS

Prices on Request



SOLID HEAD AND SHANK

Solid Cast Steel, Hardened Polished Hickory Handle Length Over All, 11¼ Inches.

Per Dozen

No. 264—Heavy. Length of Head, 6¼ Inches. Assorted Faces, ⅛, 3/16 and ¼ Inches... $ ¢

FRENCH PATTERN

Per Dozen

No. 266 Solid Cast Steel Hardened Face Full Polished, Inlaid Rosewood Hardwood Grip. One Piece Steel Handle. Length of Head, 6 Inches. Length, Over All, 10½ Inches. Assorted Faces, 1/16, ⅛ and 3/16 Inches. Weight Per Dozen, About 10 Lbs. . . . $ ¢

Half dozen in a box

GERMANTOWN ADZE EYE

Per Dozen

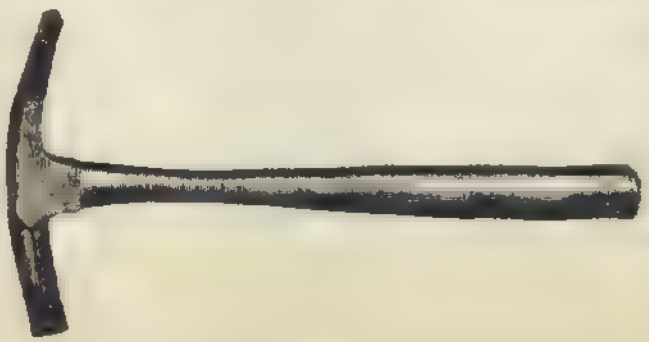
No. 70—Round Poll Extra Quality Solid Tool Steel Length of Head 6¼ Inches Length, Over All, 11¼ Inches. Full Nickel Plated Weight (without Handles), 6¼ Ozs. . . . . $ ¢
Weight, per dozen, about 8½ lbs.

GERMANTOWN ADZE EYE

Per Dozen

No. 71—Octagon Poll Round Neck Extra Quality Extra Fine Finish. Solid Tool Steel. Length of Head 5¼ Inches. Length, Over All, 11¼ Inches. Nickel Plated and Black Finish Weight (without Handles), 7 Ozs. . . . . $ ¢
Weight, per dozen, about 9 lbs.

Half dozen in a box.



Nos. 045 to 50

Per Dozen

No. 040—Cast Steel, Plain Polish. Length of Head, 4½ Inches Length, Over All, 10¼ Inches Plain Handle Weight, Per Dozen, About 5 Lbs... $ ¢
Per Gross . . . . . .

No. 40—Cast Steel, Fine Polish. Length of Head, 5½ Inches. Length, Over All, 11¼ Inches. Polished Handle. Weight, Per Dozen, About 5 Lbs..
Per Gross

No. 50—Cast Steel, Fine Polished and Plated Length of Head 5½ Inches. Length, Over All, 10¼ Inches Varnished Handle. Weight, Per Dozen, About 7 Lbs
Per Gross

One dozen in a box.

FARRIERS' HAMMERS

CHAMPION, CLEAN CLAW

Drop Forged, Full Polished; Compact in Design, Spring in claw throws off the waste of nails and keeps claw clean.

	Per Dozen
No. 87—Round Poll; Weight, 16 ounces	$32 00

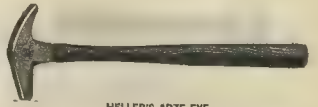
Half Dozen in a Box.

HELLER'S PATTERN

Adze Eye; Solid Cast Steel; Polished

Nos.	65-14	65-16	65-18
Weight Each, Oz.	14	16	18
Per Dozen	$29 00	29.00	29 00

Half-Dozen in a Box

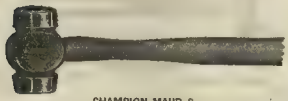


HELLER'S ADZE EYE

Solid Cast Steel; Full Polished

	Per Dozen
No. 64—Weight 16 Oz.	$33 00

Half-Dozen in a Box



CHAMPION MAUD S

Full Polished

For Rounding and Turning Horseshoes

	Per Dozen
No. 4-2 —Weight 2 Lbs.	$49 00
No. 4-2½—Weight 2½ Lbs.	49.00
No. 4-2¾—Weight 2¾ Lbs.	49 00

Quarter-Dozen in a Box

HELLERS' ROUNDING

Polished Faces

For Rounding and Turning Horseshoes

	Per Dozen
No. 51-2—Weight 2 Lbs.	$56 00
No. 51-2½—Weight 2½ Lbs.	56 00

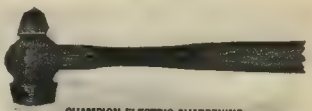
Quarter-Dozen in a Box

HELLER'S FITTING

Polished Face and Pein

	Per Dozen
No. 62-2½—Weight 2½ Lbs.	$40.00

Quarter-Dozen in a Box



CHAMPION ELECTRIC SHARPENING

Double Bevel Pein. Full Polished

	Per Dozen
No. 12-2 —Weight 2 Lbs.	$29 00
No. 12-2½—Weight 2½ Lbs.	29.00

Quarter-Dozen in a Box

TACK HAMMERS

ROBERTSON'S HORSE SHOE MAGNET

Forged Steel; Horse Shoe Magnet Pattern; Hardened Faces

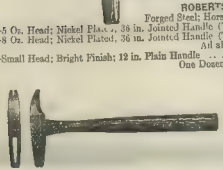
Each

No. 502—5 Oz. Head; Nickel Plated, 36 in. Jointed Handle (Two 18 in. Sections), with Springs for Holding Card to set first tack . . . $3 80
No. 502—8 Oz. Head; Nickel Plated, 36 in. Jointed Handle (Two 18 in. Sections), with Springs for Holding Card to set first tack . . . 4 20

Per Dozen

All above, Open Stock . . . $10 50

No. 412—Small Head; Bright Finish; 12 in. Plain Handle . . . .
One Dozen in a Box; Weight per Dozen about 6 Lbs.

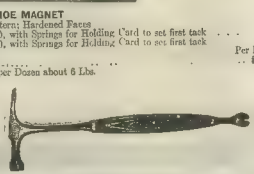


SAVAGE MAGNETIC

Magnetic Head with Claw, 4¾ in. Highly Polished Head; Extra Quality Selected Ash Handle, Length Overall, 11¾ in.

Per Dozen

No. 271—Weight per Dozen about 6 Lbs. $8.00
One Dozen in a Box



STANLEY MAGNETIC

With Long Wedge-Shaped Head for Working into Corners, 4-in. Polished Malleable Iron Head, Malleable Iron Handle, Inlaid with Black Stained Hardwood; Head, Handle and Claw, One Piece of Metal.

Per Dozen

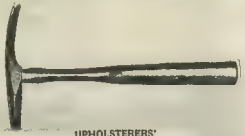
No. 4—Length Overall, 10¾ in. $5.99
One Dozen in a Box; Weight 5¼ Lbs.

STANLEY—MAGNETIC

Tinned Cast Iron Head and Claw. Head Magnetized at both ends. Claw in end of handle. Smooth Finished Hardwood Handle. Has Large and Small Faces and is used for Tacking Carpets or for Upholstery Work.

Per Dozen

No. 2—Length of Head, 4 in. Length Overall, 11½ in. . . . $2.70
One Dozen in a Box; Weight, 1½ Lbs.



UPHOLSTERERS'

Cast Steel, Claw Head, Nickel Plated Finish; Varnished Hardwood Handle.

Per Dozen

No. 25—Length of Head, 5¼ in.; Length Overall, 10¾ in. . . . $5 30
One Dozen in a Box; Weight per Dozen, about 4¾ Lbs.

Per Dozen

No. 12—Cast Steel, Plain Eye, Polished Finish; Polished Hickory Handle, with Ferrule and Steel Claw; Length of Head 3⅜ in.; Length Overall 11¼ in. $3 00
Weight per Dozen about 2½ Lbs.

TACK PULLERS

Per Dozen

No. 5—Length, 6½ in.; Improved Steel Shank, Polished; Stained Handle; Nickeled Ferrule $1.50
Weight per Dozen, about 2½ Lbs.

Per Dozen

Little Giant—Length, 5½ in.; Plain Finished, Stamped Steel Jaws and Shank, Brass Ferrule, Black Enameled Handle. $1.00
Weight per Dozen, about 1 Lb.

TAPERED CORKS

Prices on Request

Regular Lengths

Nos.	000	00	0	1	2	3
Dia. In.			⅜	7/16	½	9/16
Per Gross	$ .40	.40	.40	.40	.40	.40

Nos.	4	5	6	7	8	9	10
Dia. In.	⅝	¾	⅞	1	1⅛	1⅛	1
Per Gross	$ .60	.85	.95	1.15	1.30	1.50	2.00

Nos.	11	12	13	14	15	16	17
Dia., Ins.	1 1/16	1⅛	1 3/16	1¼	1⅜	1½	1 5/16
Per Gross	$2.15	2.30	2.70	3.00	3.25	3.70	4.20

Nos.	18	19	20	22	24	26
Dia. Ins.	1⅝	1 7/8	1¾	1¾	1¾	2
Per Gross	$4.80	5.40	6.00	7.20	9.00	10.80

Assorted Nos.	1 to 6	3 to 6	6 to 10	7 to 20	11 to 20
Per Gross	$ .60	.70	1.40	3.25	4.00

Five gross in a sack.

ROTARY KNIFE PEACH AND APPLE PARER

Pares Peaches Perfectly, Rapidly and Satisfactorily and Will Pare Soft Uneven or Bruised Fruit. Size, 26 x 10 x 10½ Inches

Per Dozen

No. 2000 ..... **$40.00**

One in a box. 12 in a case. Weight, 53 pounds.

APPLE PARERS

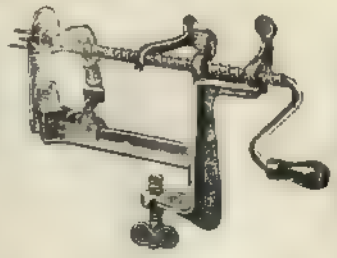
No. 72

READING TURNTABLE

Pares Apple, but Does Not Push it Off. Cast Iron Frame and Gears. Adjustable Steel Blade, Enameled Wood Handle. Height, 7½ Ins. 5½-in. Large Gear Wheel.

Per Dozen

No. 72—Wt., Per Doz., Abt. 27 Lbs. **$15.40**



DAISY

Pares, Cores and Slices. Blue Lacquered Cast Iron Frame. Tempered Steel, Adjustable Paring Blade. Automatic Push Off. Detachable Tinned Steel Coring and Slicing Knife. Turret, Threaded Steel Feed Shaft. Enameled Wood Handle. Length, 9 Ins. Secured to Table by Screw Clamp. Ht., 5¼ Ins.

Per Dozen

No. 35—Wt., Per Doz., About 13 Lbs.... **$13.60**

ADVANCE

Can be Used for Paring Only, by Loosening Machine Screw and Dropping Coring and Slicing Knife Down to Side.

Per Dozen

No. 60—Parer, Corer and Slicer, with Push Off **$20.00**

BALDWIN

All Latest Improvements. Durable Construction.

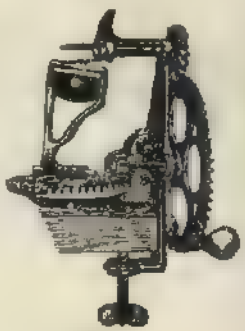
Per Dozen

No. 40—With Automatic Push Off **$16.70**

One dozen in a case.

EXPERT

Cast Iron Frame and Gear. Plain Wood Handle. Tempered Blue Finish Steel Adjustable Knife. Automatic Push Off. Coppered Steel Wire Coil Spring on Knife Arm. Height, Over All, 9 Ins. Finished in Rust-proof Blue Lacquer.

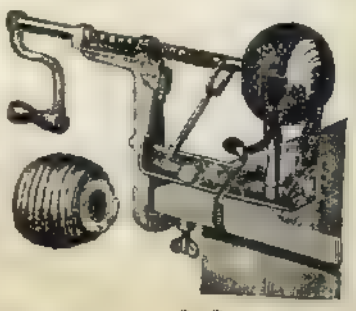


Per Dozen

No. 22—Wt., Per Doz., About 30 Lbs.. **$11.60**

WHITE MOUNTAIN

Parer, Corer and Slicer. Cast Iron Frame. Automatic Push Off Steel Threaded Feed Shaft. Cast Iron Crank. Black Finish Wood Handle. Tempered Blue Finish Steel Adjustable Knives. Brass Coil Spring on Knife Arm and Feed Lever. Finished Throughout with Rust-proof Blue Lacquer. Lgth. Over All, 9 Ins. Ht., Over All, 6¼ Ins.



Per Dozen

No. 30—Wt., Per Doz., About 25 Lbs. **$15.80**

READING

Cast Iron Frame and Gears. 6¼-in. Gear Wheel. 1¼-in. Blued Steel, Adjustable Curved Paring Blade. Automatic Push-Off. Enameled Wood Handle. Ht., Over All, 11 Ins. Secured to Table by Screw Clamp.

Per Dozen

No. 78—Wt., Per Doz., Abt. 45 Lbs. **$27.70**

One dozen in a case.

SLEDS

FRAME, WOOD HAND SLEDS

ROUND KNEE FRAME SLEIGH

Two Knees Securely Framed, Glued and Mortised into the Runners at Two Angles with Square Tenons. Gear Finished on the Wood; Top Painted Decorated and Striped. Flat Shoes Per Dozen

No. 75—Length, 30 in.; Width, 11 in.; Weight, per Dozen About 43 Lbs. $6.25

Packed One-Half Dozen in a Crate, with Two or More Designs of Decorations

PERFECTION BENT KNEE SLEIGH

Two Bent Knees set at an angle; Finished on the Wood, with Top Painted and Nicely Decorated; Flat Shoes Per Dozen

No. 80—Length, 33 in.; Width, 12 in.; Weight, per Dozen, 95 Lbs. $6.75

Half Dozen in a Crate, with Two Styles of Elaborate Decorations

STRAIGHT KNEE SLEIGH

Three Frame Knees Mortised into Runners, with Square Tenons and Set at Two Angles, Top Painted Various Colors, with Decorations and Striping; Flat Shoes Per Dozen

No. 87—Length, 30 in.; Width, 12 in.; Weight, per Dozen, 61 Lbs. $8.00

Six Sleds in a Crate

GOOSE NECK SLEIGH; PERFECTION BENT KNEES

Two Bent Knees; Top Finely Decorated; Flat Shoes Per Dozen

No. 103—Length, 33 in.; Width, 12 in.; Weight, per Dozen, 61 Lbs. $10.00

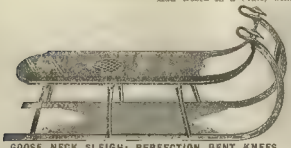
Half Dozen in a Crate

PERFECTION BENT KNEE SLEIGH

Three Bent Knees Braced with Six Braces. Finished on the Wood; Top Nicely Painted and Handsomely Decorated; Flat Shoes Per Dozen

No. 105—Length, 36 in.; Width, 12 in.; Weight, per Dozen, 63 Lbs. $11.50

Half Dozen in a Crate, with Two or More Styles of Decorations



GOOSE NECK SLEIGH; PERFECTION BENT KNEES

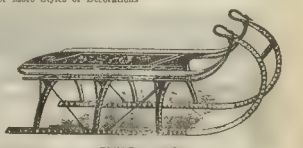
Three Bent Knees Braced with Six Full Length Tinned Braces extending from Runner to cross Seam. Top Painted in Bright Colors, Tastefully Decorated and Striped. Gear is Finely Finished on the Wood. Per Dozen

No. 110 Flat Shoes; Length, 36 in.; Width, 12 in. $14.00

No. 115—Oval Shoes; Length, 36 in.; Width, 12 in. 16.00

Half Dozen in a Crate, with Two or More Designs of Decorations

Weight, per Dozen, About 70 Lbs.



FENDER SLEIGH

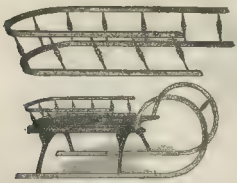
Three Bent Knees and Sawed Necks. Gear Made of Oak, and has Fancy Turned "Round" Six Tinned Knee Braces and Four Runner Braces. Top Painted in Colors and Several Styles of Decorations. Oval Shoes, Tinned in Front.

Per Dozen

No. 270—Length, 36 in.; Width, 13¼ in. $24.00

Packed Half Dozen in a Crate. Weight, 58 Lbs. per Dozen

BABY GUARDS



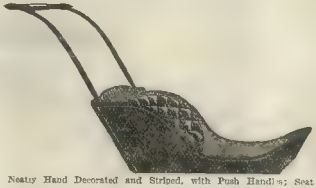
An Idea that Supplies the Demand for Light, Strong and Cheap Guards for Children too Small to Sit on a Sled Unsupported

Per Dozen

No. 520—Length, 18 in.; Width, 14½ in. $8.00

One Dozen Nested; Weight per Dozen 25 Lbs.

CHILDREN'S BOXES



Neatly Hand Decorated and Striped, with Push Handles; Seat and Back Upholstered in Damask

Per Dozen

No. 508 Length, 29 in.; Width, 15 in. $36.00

One-Third Dozen in a Crate; Weight per Dozen 140 Lbs.

CHILDREN'S CUTTERS

Bent High Dash, High and Wide Enough to Form a Protection from the Wind. The Bodies are Neatly Painted in Pleasing Colors, and Decorated and Striped in a Tasteful Manner.

Each

No. 550—Length, 33 in.; Width, 15 in.; No Upholstery; Oval Shoes $4.00

No. 555—Same as No. 550, except Seat and Back Upholstered in Damask 6.00

One in a Crate; Weight Each About 31 Lbs.

Note—If Wanted in White, add 50c to List Price

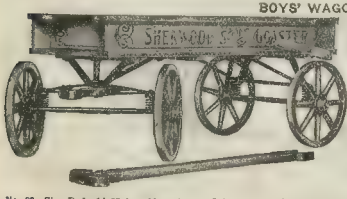
Gear Made Entirely of Second Growth Hardwood, with Three Knees, Six Tinned Knee Braces and Six Runner Braces; Oval Shoes; Finished in White Only.

Each

No. 585—Size, 42x18 in.; Seat and Back Upholstered in Silk Plush $10.00

One in a Crate, Weight About 39 Lbs.

BOYS' WAGONS



SHERWOOD SPRING COASTER
Equipped With Shock Absorbers

The Box is Made of Selected Well Seasoned White Ash with the Corners Carefully Mortised; Removable Sides; Substantial Platform. The Wheels are of the Auto Type, with Hub and Bushing of Cold Rolled Steel; Spokes are of Well Seasoned Second Growth White Ash, Mitered and Machine Riveted in Hub; Wooden Felloe; Electrically Welded Tires. Hand Drawn Bessemer Steel Roller Bearings. The Brake is always held in place away from the wheel by a Concealed Spring. Steel Axles.

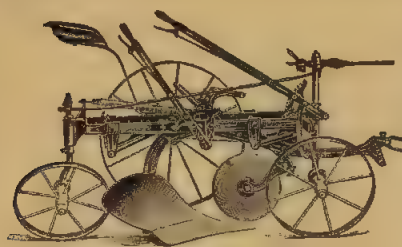
The Coiled Springs that Absorb the First Shocks are of Fine Steel attached to the bolsters and Enveloped in Solid Steel Casings. These Casings are made of such a height that under heavy pressure they transfer the weight directly to the axle and to the Transverse Springs thus Insuring Ease of Riding either under light or unusual loads. This division of strain means constant resiliency of the coiled springs and, corresponding decrease in wear of all the parts.

Per Dozen

No. 32—Size Body 14x32 in.; Size Wheels 8 in.; Weight Each 26 Lbs. $26.00
No. 34—Size Body 14x34 in.; Size Wheels 10 in.; Weight Each 30 Lbs. 60.00
No. 36—Size Body 16x38 in.; Size Wheels 10 in.; Weight Each 37 Lbs. 70.00

One-Twelfth Dozen in a Container

ROYAL BANNER SULKY PLOW



Soft Center Steel Mouldboard, Landside and Share.

HEAVY BEAM, DUST PROOF AXLE.

A STRICTLY FIRST-CLASS, HIGH-LIFT, FOOT-LIFT, SPRING-LIFT, BEAM HITCH, LIGHT DRAFT PLOW.

The Royal Banner Sulky Plow is constructed of high grade materials in every way. It is very simple in operation, yet very strong and durable. Has all of the very latest features, making it one of the easiest plows to operate ever produced. It is very light in draft, but at the same time very strong and is positively guaranteed to give complete satisfaction. THE FOOT LIFT IS MOST EFFECTIVE. A slight push of the foot releases the plow which enters the ground and reaches its proper depth within eighteen inches travel. The foot lift is so easy a child can operate it. The lift is directly in front of the driver where weight can be instantly applied. As soon as the plow gets its depth it is automatically locked in the ground and cannot lift until pressure is applied to the foot lift. **FRAMES** are of heavy, high carbon steel bars. There can be no sagging or bending to cause the plow to run out of line. **THE LAND WHEEL AXLE** crosses under the frame with a box on either side of the frame and combines to support the axle and divide the strain. This feature keeps land wheel in proper position and adds strength to plow. The front furrow axle socket casting has slot holes to take up the slack after the plow has been used for some time, preventing it cutting too wide a furrow.

ON STONY GROUND the plow can be left loose in the frame, to rise when it strikes stone or root. By the turn of the set screw the locking device can be thrown off its center and the plow will rise out of the ground, saving the point of share.

LEVELING LEVERS are within easy reach of the operator to the right, allowing free clearing space at left side for mounting and getting off the plow.

WHEELS are set true so that when at work there is no slipping or friction of any kind. The plow will follow the horses as true as a wagon. Where wheels are not running in direct line, it means adding another horse to your plow.

THE LINE OF DRAFT is so true that there is no need of setting one wheel barrel against another to line up plow.

FRONT FURROW WHEEL has a latch or hand lever, whereby the furrow wheel can be adjusted while plow is working, without the necessity of loosening any bolts on pole. An advantage. When a horse is tiring, and there is a tendency to lag, the wheel can be instantly adjusted to overcome any side draft. This improvement allows operator to finish up a piece of land to advantage.

THE REAR AXLE is set to positively take the friction from the land side of plow bottom. The connecting rod enables the front and rear furrow wheels to work together.

DUSTPROOF HUBS AND SAND BANDS on all wheels. A spring oil cup permits perfect lubrication.

ROLLING COULTERS are fastened to beams with corrugated washers and an eye-bolt through the beam. They are easily adjusted to any angle.

PLOW BOTTOMS are extra well braced, and of the most approved shape.

MOULDBOARD and SHARES are constructed from the highest grade soft center steel, and shinned on the upper side, producing double wearing qualities where the wear comes. The share and mouldboard are bound together by solid malleable frogs and heavy braces. Shares are reinforced at point by a heavy piece of steel, thoroughly welded and highly tempered. This produces durability where the greatest wear occurs.

PLOW IS CARRIED ON THE WHEELS WHILE PLOWING. The Plow does not carry the wheels as is the common fault with other makes.

WITH each plow we also furnish 3-horse evener, pole, neckyoke, rolling coulter weed hook, and wrench. Made in three sizes, 12, 14 and 16 inch, with general purpose stubble or Turf and Stubble bottom. Shipped direct to you from Illinois Factory.

B-2486—12 in. Royal Banner Sulky Stubble Plow, Weight 465 lbs... $
B-2487—12 in. Royal Banner Sulky Turf and Stubble Plow, Weight 465 lbs. 66.00
B-2488—14 in. Royal Banner Sulky Stubble Plow, weight 485 lbs.. ..... 68.00
B-2489—14 in. Royal Banner Sulky Turf and Stubble Plow, Weight 485 lbs. 68.00
B-2490—16 in. Royal Banner Sulky Stubble Plow, Weight 495 lbs. 68.00
B-2491—16 in. Royal Banner Sulky Turf and Stubble Plow, Weight 495 lbs. 68.00
B-2492—Extra for 12 inch Soft Center Share..... 3.00
B-2493—Extra for 14 inch Soft Center Share..... 3.50
B-2494—Extra for 16 inch Soft Center Share..... 4.00

ROYAL BANNER GANG PLOW

AN UP-TO-DATE, HIGH-LIFT, FOOT-LIFT, SPRING-LIFT, BEAM-HITCH LIGHT DRAFT PLOW.

The Royal Banner Gang Plow is built in the same factory; of the same high grade materials; by the same skilled workmen on the same principle as the Royal Banner Sulky, which is described above.

FRAME is of high carbon steel, very strong and rigid. The land wheel axles crosses under frame with a box on either side, which combines to support axle and divide the strain. This feature keeps the land wheel in its proper running position, and adds strength to plow. The front furrow axle socket casting has slot holes to take up the slack after plow has been used for some time, preventing it cutting too wide a furrow.

FOOT LIFT is simple and effective. A slight pressure releases plow, pushes it into the ground where it reaches its proper depth within 18 inches. The lift is directly in front of driver, where weight can be instantly applied. As soon as plow gets its depth, it is automatically locked and can not lift until foot pressure is again applied.

IN STONY GROUND it can be left loose in frame to rise when striking a root or stone. By turning a set screw the locking device can be thrown off its center and plow will rise out of ground, saving point of share.

LEVELING LEVERS are to the right of operator and within each reach. Perfect leveling is assured at all times.

WHEELS ARE SET TRUE. There is no slipping or friction. **FRONT FURROW WHEEL** has a latch or hand lever, whereby the furrow wheel can be adjusted while plow is working, without loosening any bolts on pole. The wheel can be instantly adjusted to overcome any side draft.

THE REAR AXLE is so set that all friction is taken from plow bottom. The connecting rod enables the front and rear furrow wheels to work together when turning corners.

DUSTPROOF HUBS AND SAND BANDS on all wheels. A spring oil cup permits perfect lubrication.

ROLLING COULTERS are same as described with sulky plow.

PLOW BOTTOMS are extra well braced and of most approved shape.

MOULDBOARD AND SHARES are constructed from the highest grade soft center steel, and shinned on the upper side, producing double wearing qualities where the wear comes. The share and mouldboard are bound together by solid malleable frogs and heavy braces. Shares are reinforced

at point by a heavy piece of steel, thoroughly welded and highly tempered. This produces durability where the greatest wear occurs.

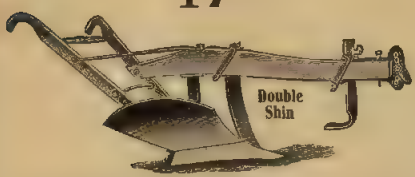
REINFORCED SHARE AND MOULDBOARD are bound together by solid malleable frogs and heavy braces.

Shipped direct to you from Illinois Factory, complete with four horse Eveners, Coulters, Weed Hooks and Pole.

B-2495—12 in. Royal Banner Gang Stubble Plow. Weight 685 lbs.. $92.50
B-2496—12 in Royal Banner Gang Turf and Stubble Plow. Weight 685 lbs. 92.50
B-2497—14 in. Royal Banner Gang Stubble Plow. Weight 690 lbs... 94.50
B-2498—14 in. Royal Banner Gang Turf and Stubble Plow. Weight 690 lbs. 95.00
B-2499—Extra for 12 inch Soft Center Share..... 3.00
B-2500—Extra for 14 inch Soft Center Share..... 3.50

IMPERIAL BRUSH PLOW

$17.95



Wood Beam, Double Shin Brush Plows, complete with Quincy cutters. A good general-purpose plow. Light, strong and serviceable. Has heavy wrought-iron strap under beams, which greatly strengthens it and makes it a plow to stand hard usage in a brushy country among roots and stumps. Also makes a good road plow. The Quincy cutter is bolted to the landside and to beam, and when worn on one end can be turned and used on the other. Well shaped handles, and entire plow strongly braced. Share is best soft-center steel. Shipped direct to you from Illinois factory.

B-2545—12-in., with Quincy cutter, 110 lbs. $17.95
B-2546—14 in., with Quincy cutter, 120 lbs. 19.95
B-2547—Extra shares. 12-inch, $3.00; 14-in. 3.50

LARIMER DITCHING PLOW

The Larimer Ditching Plow is designed to do the digging or loosening up of the earth in the ditch. Will work in the hardest ground to the depth of at least 3 feet. On frequent tests two men and two horses have thrown out 40 rods per day out of a ditch 16 inches wide and 3½ feet deep.

Has all chilled bottom and makes a furrow 8 inches wide. The tile bed shovel regularly furnished with plow, is for finishing up the bottom of the ditch ready for laying the tile. It grades and levels all uneven places so that the fall of tile is exactly uniform.

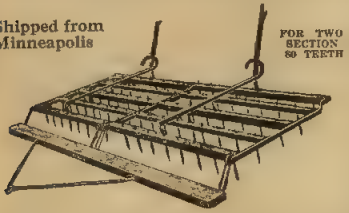
Has sub-soil attachment consisting of shield or plate that attaches to side of plow converting ditcher into an excellent sub-soiler; also adjustable beam that allows setting ditcher to follow right or left hand plow.

Complete directions with each plow. Shipping weight of plow, with tile bed shovel, 150 pounds. Shipped direct to you from our Illinois factory.

B-2548—Plow complete, with the tile bed shovel and sub-soil attachment $23.50
B-2549—Extra points. Ship. wt., 10 lbs. each. Price 1.95
B-2550—Steel shares, extra. Ship. wt., 15 lbs. 5.95

WOOD FRAME LEVER HARROW

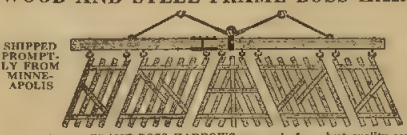
Shipped from Minneapolis



Our WOOD FRAME LEVER HARROW is made exceptionally strong, out of the very best of material, and is guaranteed to give complete satisfaction in every way. It is made up of fine cross bars, 2x2½ inches; made entirely of well seasoned oak, finely painted. Teeth are 8 inches long; square head. ⅝ inch square, made of hard steel, with rivet at each tooth. The teeth are so placed that each section will work naturally like the center section of the Boss harrow. Sections are so arranged that the ground between each section will be harrowed. By means of the lever the teeth can be set in any position for pulverizing or at any desired slant. Two or more sections can be coupled together. The end of each bar is protected by a patented channel over the end of each bar and securely bolted to the side. Four and five section harrows are equipped with equalizer. Shipped direct to you from Minneapolis factory.

		Teeth	Cuts	Weight	
B-2551—2	section Harrow	80	10 ft.	178 lbs.	$20.40
B-2552—3	section Harrow	120	15 ft.	266 lbs.	32.50
B-2553—4	section Harrow	160	20 ft.	360 lbs.	42.50
B-2554—5	section Harrow	200	25 ft.	443 lbs.	56.00

WOOD AND STEEL FRAME BOSS HARROWS

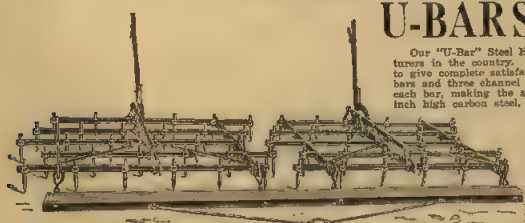


Our WOOD FRAME BOSS HARROWS are made from best quality seasoned hardwood, strongly riveted and firmly braced. All wood parts are well painted. You will need only to compare our harrow with those offered by others to see what a big value we are offering. Each section is independently connected to the draw bar. This makes the harrow flexible. Dagger teeth are used to insure deep cutting and perfect pulverizing. We fit all sizes with draw bars. The 4- to 6-horse harrow can be used complete or each one or two or three sections used as desired. Shipped direct to you from Minneapolis factory.

No.			Weight	
B-2558—2 horse	60 teeth	Cuts 10 ft.	150 lbs.	$
B-2557—3 horse	78 teeth	Cuts 13 ft.	190 lbs.	17.95
B-2558—3 horse	102 teeth	Cuts 18 ft.	256 lbs.	23.50
B-2559—4 horse	150 teeth	Cuts 26 ft.	375 lbs.	33.95
B-2559½—4 horse	174 teeth	Cuts 29 ft.	440 lbs.	43.95
B-2559½—6 horse	222 teeth	Cuts 37 ft.	560 lbs.	53.95

This Harrow is made entirely of steel with the exception of the cross braces on top. Cannot get out of order or broken. The teeth extend through the steel bar and are firmly riveted. Cannot work loose. The wood cross braces allow sufficient spring which is necessary for proper work. We guarantee this to be the best Boss Harrow on the market. Shipped direct to you from Minneapolis factory.

No.			Weight	
B-2560—2 horse	60 teeth	Cuts 10 ft.	150 lbs.	$
B-2561—2 horse	78 teeth	Cuts 13 ft.	185 lbs.	16.70
B-2562—3 horse	90 teeth	Cuts 15 ft.	206 lbs.	19.95
B-2563—3 horse	102 teeth	Cuts 18 ft.	255 lbs.	22.00
B-2564—4 horse	138 teeth	Cuts 23 ft.	345 lbs.	30.00
B-2565—4 horse	150 teeth	Cuts 26 ft.	375 lbs.	33.50
B-2566—6 horse	222 teeth	Cuts 37 ft.	550 lbs.	47.50



Our Co-operative plan of shipping implements "Direct From Factory To You" saves you from 10 to 40 per cent

U-BAR STEEL HARROW

Our "U-Bar" Steel Harrows are made by one of the largest harrow manufacturers in the country. They are built of selected materials and are guaranteed to give complete satisfaction in every way. Each section is made with five U-bars and three channel bars of high carbon steel, well braced. Six teeth are in each bar, making the sections contain thirty teeth. The teeth are made of ⅝ inch high carbon steel, and headed. The teeth are securely held in place by a positive clamp, and are adjustable to take care of wear. Lever with each section enables them to be adjusted to any and all conditions. No better construction is possible than that used in the manufacture of our steel lever U-Bar Harrow. It is guaranteed to give satisfactory service in every respect and is built right from start to finish.

Shipped direct to you from Illinois Factory.

	Style	Width of Cut
B-2567—	60 Tooth 2 Section	10 ft.
B-2568—	90 Tooth 3 Section	15 ft.
B-2569—	120 Tooth 4 Section	20 ft.

If 5-8 inch Teeth are wanted, add per section.

WASH BOARDS

Prices on Request

ROYAL BLUE

Single Enamel

The original enamel surface board. Will not chip, crack or corrode. Durable and attractive. Steel quality. 10⅞×12¼ inch Angle crimp Rubbing Surface. Length Over All 24½ inches. Width Over All 12½ inches. Ventilated Back. **Wide Head**

Per Dozen

No. 964—.....

Weight per dozen about 39 lbs.
Half Dozen in a Crate

DIAMOND

Single Glass

10⅛ × 12 inch Plain Crimp Rubbing Surface not Affected by Hot or Cold Water; Finished Wood Frame; Protected Top Non-corrosive; Never Dents or Wears; Length Over All 24½ inches Width Over All 12⅜ inches Ventilated back **Wide Head.**

Per Dozen

No. 176—.....

Weight per dozen about 72 lbs
Half Dozen in a Crate

SEAL GLOBE

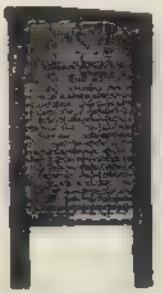
Double Zinc.

10¾ × 11 inch Rubbing Surface Globe Crimp on One Side and Plain Crimp on the other Length over all 23⅝ ins Width over all 12½ inches. **Wide Top.**

Per Dozen

No. 70—.....

Wt per doz about 40 lbs.
Half Dozen in a Crate.



INVINCIBLE

Pail Size

Coated Steel 5¾ × 7⅞ in Globe Crimp Rubbing Surface; Length over all 15⅝ ins. Width over all 7⅜ ins. 3¼ x 5¾ inch Soap Box

Per Dozen

No. 00—.....

Wt per doz about 16 lbs.
Half Dozen in a Crate

RED CROSS

DOUBLE ZINC

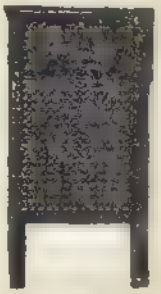
Extra Large Size

12 × 13 inch Rubbing Surface Peerless Crimp on One Side and Red Cross Cable on the Other Length Over All 25 inches. Width Over All 13⅝ inches

Per Dozen

No. 66—.....

Weight per doz about 48 lbs
Half Dozen in a Crate



GEM

Pail Size

Single Zinc. 5¾ × 7½ in Globe Crimp Rubbing Surface. Length over all 16 ins. Width over all 7¾ ins 3¼ x 5¾ inch Soap Box.

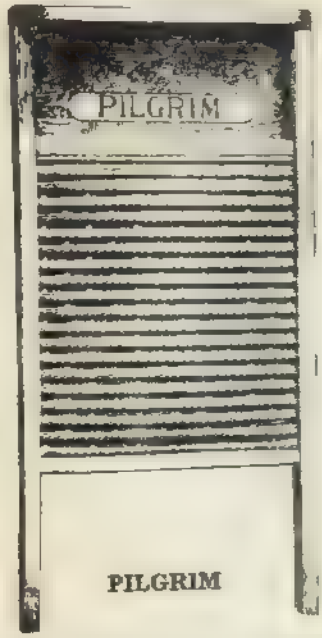
Per Dozen

No. 0—.....

Wt per doz about 16 lbs.
Half Dozen in a Crate.

WASH BOARDS

Prices on Request



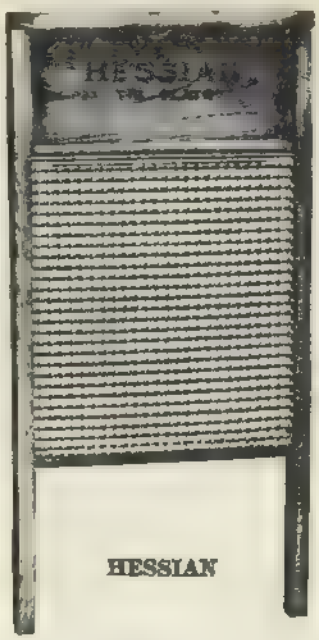
PILGRIM

Manufactured from New England Hardwood. Heavy single zinc. Spiral crimp with perforations at base of each crimp. Open truss back, wide cap, standard size.

Per Dozen

No. 0310— ... .

Half dozen in a Crate.



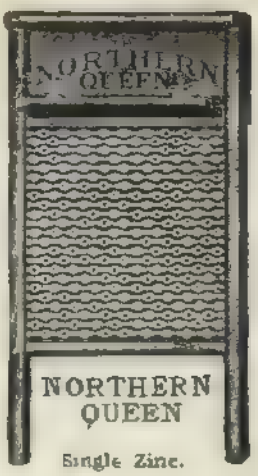
HESSIAN

Manufactured from New England Hardwood. The stock is not selected, but nothing is used detrimental to strength and durability. Single tin. Globe crimp Open truss back. Wide

Per Dozen

No. 023—.....

Half dozen in a Crate.



NORTHERN QUEEN

Single Zinc.

The original perforated Washboard Fancy Crimp with perforations on top of the corrugations. Extra finish. The duplex protector used in this board is a simple and valuable attachment protecting soap as well as clothing

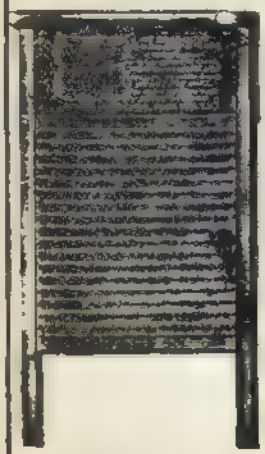
Extra heavy 10¾×12½ inch Rubbing Surface Length Over All 24½ inches. Width Over All 12½ inches. Ventilated Back. Three Rods in Back.

Per Dozen

No. 100— . . . . . .

Weight per doz about 32 lbs

Half Dozen in a Crate



Highest quality of heavy spring brass Selected lumber Four Rods in the Back Rubbing Surface will not corrode, crack, or get out of shape

Ventilated Back; Wide Head. Single Brass

Spiral Crimp

BRASS KING

10¾×11½ inch Rubbing Surface. Length Over All 23¾ inches

Per Dozen

No. 801— . . .

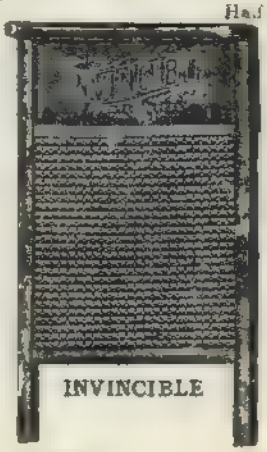
10½×10 in Spiral Crimp Rubbing Surface Length over all 22 inches

Per Dozen

No. 802— . . . . .

Half Dozen in a Case.

Single Globe Crimp



Coated Steel

Nos.	820	825	827
Kind, Size	Small	Standard	Extra large
Rubbing Surface inches	10 x 10½	10⅞ x 11	12 x 13
Length over all, inches.	23¼	24	25½
Width over all, inches	11½	12½	13½
Weight per dozen about, lbs	25	34	42
Per dozen			

Half dozen in a Crate.

IRONS

GASOLINE

ROYAL

Cast iron base. Nickel plated trimmings. Tank in front. Full directions for operating packed with each iron.

Read directions carefully before using.

No.	Royal
Length over all, inch	10
Height over all, inch	7½
Irons in case	12
Net weight each, lbs.	6½
Shipping weight per case, lbs.	90
Each	$6.00

One in a pasteboard box.

SAD

ASBESTOS LAUNDRY SETS

Set consists of one hood and handle attached, three 4¾ pound cores and one stand.

Solid cast iron cores. Nickel plated faces and flanges. Asbestos lined nickel plated hood. Black enameled wood handle and patent lock.

No.	70
Net weight per set, lbs.	16
Shipping weight per carton, lbs.	60
Per set	$4.00

Three sets in carton.

DOVER

Set consists of hood and handle attached two 4½ lb cores, one 4¼ lb core. One stand locked by catch gripping pin in center of core. Not asbestos lined.

No.	60
Net weight per set, lbs.	14
Shipping weight per carton, lbs.	44
Per set	$3.00

One-quarter dozen sets in a carton.

MRS. POTTS

Set consists of three irons, handle and stand. Cast body. Heavy nickel plated. Double pointed. Japanned top. Detachable select hazelwood handle, with metal stretcher.

No.	50
Net weight per set, lbs.	14¼
Shipping weight per case, lbs.	91
Per set	$4.00

Six sets in a wood case.

SAD

Polished ironing surface. Black japanned top. High stationary handle.

Nos.	5	6	7	8
Hgt. in.	4¾	5	5	5¼
Size, in.	3⅛x5¾	3⅛x6	3⅛x6¼	3⅜x6½
Nt wt, lbs	5	6	7	8
Per lb.	30 25	.25	.25	.25

Loose.

Shipping weight adds 5% to net weight.

FAMILY CHARCOAL

Polished steel sides and ironing surface. Heavy nickel plated tin shield. Removable top. Natural finish wood handle. Large furnace space. Flue in back of iron. Use charcoal from common wood.

No.	4
Height, inch	7½
Size face, inch	4x6½
Dozen in case	1
Net weight dozen, lbs.	78
Shipping weight case, lbs.	108
Per dozen	$39.00

SAD IRON HANDLES

MRS. POTTS

Cast iron stretcher, operated with thumb. Hazelwood handle. Steel springs easily finish. No. 10 japanned finish. No. 100, tinned

Nos.	10	100
Length handle, inch	5½	5½
Diameter grip, inch	1	1
Dozen in barrel	36	36
Net weight per dozen, lbs.	5	5
Ship weight per barrel, lbs.	202	202
Per dozen	$3.00	3.60

IRONING STANDS

ECONOWAX

Saves time, labor and heating cost. Used for waxing all kinds of sad or polishing irons and is guaranteed not to stain, smut or injure the cloth or fabric.

Size, inch	6x9
Dozen in case	24
Net weight per dozen, lbs.	4½
Shipping weight case, lbs.	120
Per dozen	$2.40

One dozen in box

SAMPSON POWER WASHER WITH SWINGING POWER WRINGER

CAN BE USED WITH GASOLINE ENGINE, ELECTRICITY OR BY HAND

FULLY GAURANTEED—SENT ON THIRTY DAYS' FREE TRIAL

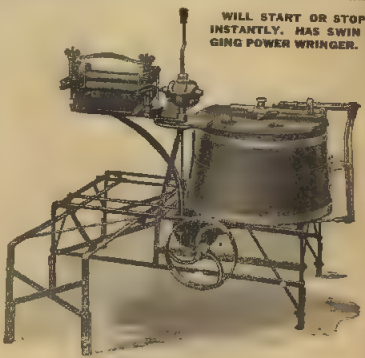
STOP WASHING AND WRINGING CLOTHES THE OLD WAY

SAMPSON STAVE LEG MACHINE

Why continue the old tub and washboard method when you can secure a machine that will do all this work for you and relieve you of all worry? By using the Sampson Power Washer you can do your washing and wringing easily, quickly and with very little expense. It washes and wrings at the same time. It is easily operated and can be run with a one-horsepower engine or an electric motor. By raising the lid of washer the machine stops. By a simple touch of the lever the wringer starts either forward or backward. It can be instantly stopped at any point, thus avoiding tearing the clothes or injuring fingers.

THE MAIN DRIVING MECHANISM is mounted under the main frame of the Washer. Most of the gearing is under the tub, therefore out of the way. It is protected to keep from catching the clothes or fingers. The main drive pulley for operating with an engine is 11¾ in. in diameter with a 2-in. face. For motor operation a 16¾-in. grooved pulley is used. The drive shaft should run 200 revolutions per minute. **The Washer** is operated by means of a rack bar which furnishes a smooth, steady, quiet running machine. By raising the rack bar the Washer stops, and by lowering it, starts. The Washer is also stopped by means of a clutch improvement, fastened on the side of the tub, as illustrated. **The Washer is operated exclusively by gears,** eliminating the unavoidable troubles arising from belts. We have an extra large size, hardwood agitator (or dolly) which is adjustable, the shaft raising up through the lid of the Washer. The shaft or stem on which the dolly is fastened is **galvanized,** as well as all other metal parts inside of the tub. **The capacity of the tub** is 18 gallons. It is best southern cypress, corrugated sides and bottom. Inside measurements are 22½ in. diameter at bottom and 12¾ in. high. We have a special improved screw plug type water drain with extension so a rubber hose can be attached. **THE SWINGING POWER WRINGER** on the machine strongly appeals to the busy housewife and enables you to wring all of the clothes by power. This powerful wringer is operated by concealed gears, it swings to and locks over the different tubs. You can thus wring the clothes from the Washer into the rinse tub from the rinse tub into the bluing water and into the clothes basket. The wringer can be stopped, started and reversed almost instantly by use of the conveniently arranged lever The wringer is well braced and supported. The wringer is two-roll, solid weight rubber (10x1½ in. rolls) reversible wringer, adjustable by screws and springs. **THE STEEL FRAME,** 1x⅛x⅜ in. channel iron, is used for the main frame, which stands 16 in. high, is 23½ in. wide and 43 in. long. The tub is fastened to the frame by lugs and bolts. The sliding racks are strong and actually hold a tub of water. The Stave Leg type has a wood brace and a special ⅝-in. rod brace to insure durability. An adjustable height **platform** is furnished on all Steel Frame Washers, further helping to furnish a maximum of comfort to the user. **A SPECIAL FEATURE** which will strongly appeal to the busy housewife is that this Washer and Wringer can be operated by hand should the power fail. A wood handle for this purpose is included in the price. The tubs are varnished and the metal parts covered with paint, making a neat and attractive machine

COST OF OPERATING. You can do a week's washing for only a few cents' worth of gasoline and a few cents' worth of electric current—figures hardly worth mentioning. **Make Washing a Pleasure.** Let one of these Washers do this dreaded backaching, tiresome work of washing and wringing clothes. Washing is work for machinery and to do it the old-fashioned way is a waste of labor, nerve, time and money. Instead of ruining your health by standing over the washer or tubs with steaming hot water for hours, these Power Washers will wash your clothes a snowy white and do all of your washing quickly, easily and with little expense. **Washes and Wrings at the same Time.** These machines will do the washing while you are doing the wringing, being operated simultaneously, or will wash the clothes while you may be attending to other household duties.



SAMPSON STEEL FRAME MACHINE

OUR GUARANTEE

We guarantee our Washers to be constructed from good material throughout. We will replace **FREE OF CHARGE** any casting that may prove defective within one year from date of purchase.

FREE TRIAL OFFER

You may not be able to fully appreciate the advantage of such a labor-saving Washer **without a trial.** We are so confident you would be pleased to see the wonderful **saving of time and labor** by owning such a Washer, that you may test out any machine for 30 days. If at the end of that time you do not find the Washer satisfactory and as represented, you may return it to us, and we will refund your money and pay the freight We are in position to ship these Washing Machines promptly from factory in central Illinois. Tub or basket is not furnished. Our Jeffrey Gasoline Engine is shipped from Missouri factory.

B-2674—Sampson Stave Leg Washer. Complete with Wringer. Weight, 170 lbs. 53.50

B-2675—Sampson Stave Leg Washer with 1-5 H. P. Motor, Cord and Plug. Weight, 120 lbs. 79.50

B-2676—Sampson Stave Leg Washer with 1½ H. P. Jeffrey Gasoline Engine Weight, 475 lbs. 88.50

B-2677—Sampson Steel Frame Washer, complete with Wringer Weight, 235 lbs. 53.50

B-2678—Sampson Steel Frame Washer, with 1-5 H. P. Motor, Cord and Plug. Weight, 275 lbs. 79.50

B-2679—Sampson Steel Frame Washer, with 1½ H. P. Jeffrey Gasoline Engine. Weight, 510 lbs. 88.50

We furnish a 1-5 H. P. Motor complete with cord and plug to attach to an ordinary light socket. When ordering always mention whether your current is direct or alternating and give voltage and cycles. **Notice**—We can furnish you our 2 H. P. Jeffrey Engine instead of 1 1-2 H. P. as quote above for $13.50 extra.

FOR ADDITIONAL WASHING MACHINES SEE PAGE 133

GAS ENGINE SUPPLIES

SCHEBLER CARBURETORS

Model D—For Marine Engines

Owing to design of these carburetors, they occupy very little space, provide a uniform mixture of gas and air at different engine speeds. Made of brass

Model D	¾	1	1¼	1½	2
Each	$15.00	16.00	17.00	25.00	50.00

In ordering state size, also number of cylinders.

PFANSTIEHL MARINE DASH COILS

No. 25

No. 28

These Coils are equipped with a cover for the vibrators and high-tension terminal insulators, and are adapted for use in exposed places. They combine the advantages of a dash coil with a marine coil price.

No. 25—1 Cylinder	Weight each,	6 lbs	Each,	$6 50
No. 26—2 "	" "	10 lbs.	"	13.00
No. 27—3 "	" "	15 lbs.	"	17.00
No. 28—4 "	" "	18 lbs.	"	25.00

Cases are of selected, highly polished oak.

MAKE AND BREAK SPARK COIL

Primary or Make and Break

No. 124—Six-inch Coil, Core 1¼-inch Norway Wire, Copper Windings, 12 Layers of No. 14 Wire.....Each, $4.25

No. 144—Six-inch Coil, Core 1¼-inch Norway Wire, Copper Windings, 14 Layers of No. 14 Wire.....Each, 4.75

Requires only a small amount of current to make a thick, powerful and hot flame, insuring an explosion every time.

WIZARD TUBULAR MAGNETOS

Type B—Make and Break Spark, for One-Cylinder Engine. Length, 10 in. Width, 6 in. Height, 7 in. Weight each, 13 lbs. .....Each, $20.00

Type A—Make and Break Spark, for Multiple Cylinder Engine. Length, 10 in. Width, 6 in. Height, 7½ in. Weight each, 16 lbs. .....Each, 23.00

Type R—Jump Spark, for One-Cylinder Engine. Length, 10 in. Width, 6 in. Height, 8 in. Weight each, 18¾ lbs. .....Each, 25.00

Type HK—Jump Spark, for Multiple Cylinder Engine. Length, 12 in. Width, 6 in. Height, 8 in. Weight each, 24½ lbs. .....Each, 32.00

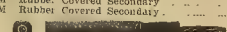
IGNITION CABLE

SPLITDORF

1 5 m/m VARNISHED RUBBER PRIMARY

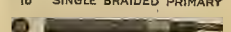
This Cable is designed to withstand the severe conditions under which it is used on an automobile or marine engine. Rubber is one of the best insulations known and the quality used on this Cable speaks for itself.

No.	Size.		Per 100 Ft
1	5M-M	Rubber Covered Primary	$10.00
21	7M-M	Rubber Covered Secondary	15 00
11	9M M	Rubber Covered Secondary	20.00



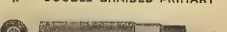
SPLITDORF

16 SINGLE BRAIDED PRIMARY



SPLITDORF

17 DOUBLE BRAIDED PRIMARY

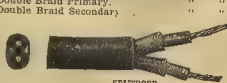


SPLITDORF

20 DOUBLE BRAIDED SECONDARY

This Cable is identical in construction with that shown above, having a double braid finish added. This braid finish is a protection from the rotting action of oil and grease. Braid is covered with a coating of the best insulating varnish.

No. 16—Small Braid Primary	Per 100 ft.	$10.00
No. 17—Double Braid Primary	" "	15 00
No. 20—Double Braid Secondary	" "	15.00



SPLITDORF

18 BRAIDED TWO WAY

There are many uses for Multiple Cables in automobile and marine work. The Cable shown here is adapted for all primary current uses. Strands are colored, one red, one black, respectively, and varnished braid finish over both.

	Per 100 Ft
No. 18—Two-Way Braid, Lighting or Ignition	$25 00
Plain cotton covered Lamp Cord, not illustrated	3 00
Plain silk covered Lamp Cord, not illustrated	5 00
No. 25—Black Spotlight Cord	10 00

SEATTLE HARDWARE COMPANY

MANTEL AND SCHOOL CLOCKS

MERCHANT
Eight-Day Movement
Golden Oak Finish, Handsomely Carved, Decorated Glass Door, Roman Numerals

Each
Merchant No. 100—Height 22¾ in.; Width, 15 in ; Weight, 8 Lbs..$6.00
Merchant No. 200—With Alarm 6.50
Packed One in a Box

DROP OCTAGON
Eight Day Movement
Solid Oak Case; Highly Polished; 12 in. Dial

Each
Drop Octagon—Height, 24 in.; Width, 16½ In.; Weight, 22 Lbs.. $14.50
Packed One in a Box

ERIE
Eight-Day Movement
Solid Oak Case; Highly Polished; 12 in. Roman Dial

Each
Erie—Height, 33½ in., Width, 18½ in., Weight, 23 Lbs.....$16.00
Packed One in a Box

REFEREE
Eight-Day Movement
Solid Oak Case; Highly Polished; Ornamental Top and Base; Heavy Glass Front Door

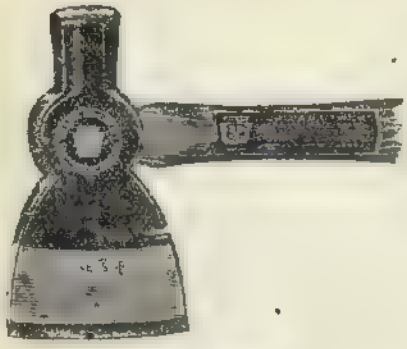
Each
Referee—Height, 35½ in.; Width, 16 in.; Weight, 38 Lbs.....$10 00
Packed One in a Box

HATCHETS

SELSOR'S BLUE JACKET—MADE BY GRIFFITH TOOL WORKS

Solid Cast Steel—Blue Finish

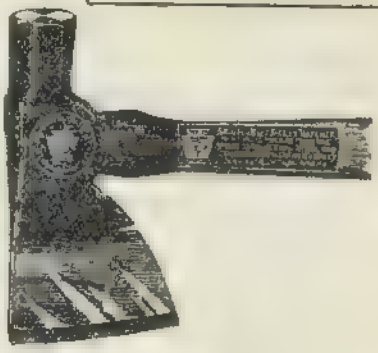
Prices on Request



SHINGLING

	Per Dozen
No. 410—Size 1 3½-Inch Cut	$
No. 411—Size 2 3¾-Inch Cut	
No. 412—Size 3. 4¼-Inch Cut	

Half dozen in a cardboard box. Six dozen in a case.



HALF

	Per Dozen
No. 415—Size 1. 3½-Inch Cut	$
No. 416—Size 2. 3¾-Inch Cut	
No. 417—Size 3. 3¼-Inch Cut	

Half dozen in a cardboard box. Six dozen in a case.

LATHING

	Per Dozen
No. 420—Size 1. 2 -Inch Cut	$
No. 421—Size 2. 2¼-Inch Cut	

Half dozen in a cardboard box. Six dozen in a case.

CLAW

	Per Dozen
No. 423—Size 1 3½-Inch Cut	$
No. 424—Size 2 3¾-Inch Cut	

Half dozen in a cardboard box Six dozen in a case.

If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

HATCHETS
GRIFFITH TOOL WORKS

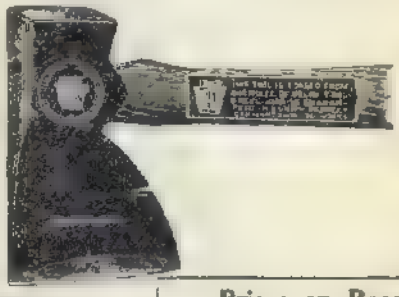
Warranted Solid Tool Steel. Closely Inspected and Severely Tested. Selected Well-Seasoned Handles. Extra Fine Finish Throughout

BROAD

Fire Bronzed. Polished Bit and Poll

		Per Dozen
No. 361—Size 1	4 Inch Cut.	$31.00
No. 362—Size 2	4½ Inch Cut	32.50
No. 363—Size 3.	5 Inch Cut.	34.50
No. 364—Size 4	5½ Inch Cut.	40.00

Third dozen in a box. Six dozen in a case.



Prices on Request

FLOORING OR HALF BROAD

The End is Straight, Thus Clearing the Floor in Nailing. Face of Poll is Rounded Enough to Prevent Scarring Wood in Driving. The Blade has a Rounded or Draw Cut and Consequently Enters the Wood Easily. The Bit is Made with a Roll that Throws the Chips and Prevents Wedging. The Nail Slot is a Great Convenience.

Fire Bronzed Body. Polished Bit and Head

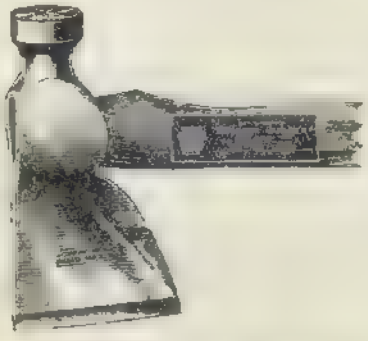
	Per Dozen
No. 462—4 Inch Cut. Weight, Per Dozen, About 30 Pounds	$39.70

Third dozen in a box. Two dozen in a case.

Rustless Black Body. Polished Bit and Head

	Per Dozen
No. 5462—4 Inch Cut. Weight, Per Dozen, About 30 Pounds.	$

Third dozen in a box. Two dozen in a case



Full Polished. Extra Thin Bit

Squared Extra Grade Handles

Nos.	319	320
Size	1	2
Cut, Inches	3½	3¼
Per Dozen	$45.85	41.85

Half dozen in a box. Six dozen in a case

A Most Handsome and Excellent Tool

Underhill Pattern. Checkered Head. Dull Polished Finish

Extra Grade Well Shaped Handles.

Nos.	293	294
Pattern	Chicago	St. Paul
No. of Points on Head	81	100
Cut, Inches	2	2¼
Weight, Ounces	19	21
Per Dozen.	$50.30	51.80

Half dozen in a box. Six dozen in a case

SINGLE BITTED AXES

KELLEY

Natural Fire Temper Finish

Hand Forged from Highest Grade Crucible Steel, Highest Grade Steel Eye Welded to Crucible Cast Steel Bit, Perfectly Tempered, Hand Ground, Sharpened and Whetted

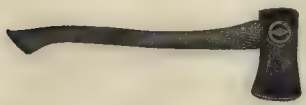
WISCONSIN PATTERN

	Narrow Bit (Without Handles)		
Weights	3½ to 3¾	3⅞ to 4	4⅛ to 4½
Per Dozen	$24 00	26 00	28 00

MICHIGAN PATTERN

	Wide Bit (Without Handles)				
Weights	3⅛ to 3¾	3½ to 4	4⅛ to 4½	4⅝ to 4¾	4½ to 5
Per Dozen	$24 00	26 00	28 00	32 00	36 00

One Dozen in a Box. Weight of Each Axe is Stamped Near the Eye



KELLEY

No. KSWP—WISCONSIN PATTERN, Handled

Handled with Excelsior Hickory Handles, Hand Shaved; Belted Finish.

Weights of Head	3½ to 3⅝	3⅞ to 4	4⅛ to 4½
Per Dozen	$29.00	33.00	37 00

KELLEY

No. KSMP—MICHIGAN PATTERN, Handled

Handled with Excelsior Hickory Handles; Hand Shaved; Belted Finish.

Weights of Head	3½ to 3¾	3⅞ to 4	4⅛ to 4½	4⅝ to 4¾	4½ to 5
Per Dozen	$29 00	33 00	33 00	37.00	42.00

One Dozen in a Wood Box

SINGLE BITTED AXES

LAKESIDE
Gold Bronze Finish, with Polished Bit

High Grade Steel Body, with Welded Crucible Tool Steel Bit; Well Tempered, Ground and Sharpened

WISCONSIN PATTERN
Narrow Bit
(Without Handles)

Weights	3¼ to 3¾	3½ to 4	3½ to 4½	4½ to 5
Per Dozen	$19.00	20 00	20 00	22 00

MICHIGAN PATTERN
Wide Bit
(Without Handles)

Weights	3¼ to 3¾	3½ to 4	3½ to 4½	4½ to 5
Per Dozen	$19 00	20 00	20.00	22 00

One Dozen Assorted Weights in a Box; Weight of Each Axe Stamped Near Eye

LAKESIDE
No. LSWP—WISCONSIN PATTERN, Handled
Handled with Selected No. 2 Second Growth Oak, Machine Turned.
Belted Finish.

Weights of Head	3¼ to 3¾	3½ to 4	3½ to 4½	4½ to 5
Per Dozen	$23.00	24 00	24 00	26 00

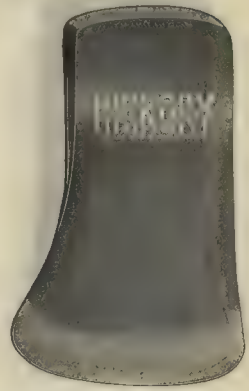
LAKESIDE
No. LSMP—MICHIGAN PATTERN, Handled
Handled with Selected No. 2 Second Growth Oak, Machine Turned.
Belted Finish.

Weights of Head	3¼ to 3¾	3½ to 4	3½ to 4½	4½ to 5
Per Dozen	$23 00	24 00	24 00	26.00

One Dozen in a Wood Box

SINGLE BITTED AXES

Wisconsin Pattern



Michigan Pattern

HICKORY

Old-Fashioned Hand Process, Natural Color Finish

Made entirely by the Old-fashioned Hand Process from Highest Grade Crucible Steel. The Bit is Forged by Hand and Thoroughly Hammered in this way refining the steel as can be done in no other manner. Each Axe is Ground Separately, and Ground Before Tempering, to avoid any possibility of drawing the temper. Old-fashioned Hand Process, Natural Color Finish, with each axe dipped in transparent lacquer to prevent rust.

WISCONSIN PATTERN

Narrow Bit

(Without Handles)

Weights	3¼ to 3¾	3½ to 4	3¾ to 4½	4 to 5
Per Dozen	$28 00	32 00	32 00	40 00

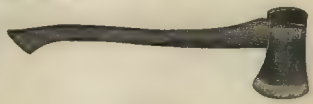
MICHIGAN PATTERN

Wide Bit

(Without Handles)

Weights	3½ to 3¾	3½ to 4	3¾ to 4½	4 to 5
Per Dozen	$28.00	32.00	32 00	40 00

One Dozen Assorted Weights in a Box, Weight of Each Axe is Stamped Near the Eye



HICKORY

No. HSWP—WISCONSIN PATTERN, Handled

Handled with Selected Second Growth Hickory.

Weights of Head	3¼ to 3¾	3½ to 4	3¾ to 4½	4 to 5
Per Dozen	$34 00	38 00	38 00	46 00

HICKORY

No. HSMP—MICHIGAN PATTERN, Handled

Handled with Selected Second Growth Hickory.

Weights of Head	3¼ to 3¾	3½ to 4	3¾ to 4½	4 to 5
Per Dozen	$34 00	38 00	38 00	46 00

One Dozen in a Wood Box

SINGLE BITTED AXES

Wisconsin Pattern

Michigan Pattern

OLD TIMER

Plain Natural Blue Finish, Bright Edge

(Without Handles)

Hand Forged from the Highest Grade Crucible Steel, Carefully Tempered by a Special Patented Chemical Process, which gives Durability, Toughness and a Edge Holding Quality. Hard Honed and Whetted.

This Axe is Forged by Hand and Tempered by Hand in the "Old Timer" way which gives the Steel Greater Durability and a Greater Capacity to Hold a Finer Cutting Edge, thereby producing a superior axe. It is guaranteed against flaws in steel and softness.

WISCONSIN PATTERN

	Narrow Bit			
Weights	3¼ to 3¾	3½ to 4	3½ to 4½	4 to 5
Per Dozen	$32.00	33.00	33.00	42.00

MICHIGAN PATTERN

	Wide Bit			
Weights	3¼ to 3¾	3½ to 4	3½ to 4½	4 to 5
Per Dozen	$32.00	33.00	33.00	42.00

One Dozen in a Wood Box

Durability—Service—Satisfaction

APOLLO-KEYSTONE

COPPER STEEL

Galvanized

Sheets

Highest in quality and rust resistance. Unequaled for Culverts, Flumes, Tanks, Roofing, Siding, Spouting, and all exposed sheet metal work.

We manufacture Sheet and Tin Mill Products of every description—Black and Galvanized Sheets, Corrugated and Formed Products, Roofing Tin Plates, Etc.

AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa.

Send for a Free Sample

of

Ruby Fluid Flux

For Soldering and Tinning all Metals. Try it yourself. Non - explosive, non - corrosive, non-poisonous. Shipped in tins ready for use.

Economical. retains the tinning longer than other flux. Nine years on the market hasn't failed yet.

We'll send a Liberal Sample Free to any Jobber or Dealer. Good Profit. Write now.

The Ruby Chemical Co.
Columbus, Ohio, U. S. A.

For Hardware Manufacturers

UNION EMERY

Pure Turkish grains, uniformly graded, and backed by the best Quality Paper and Cloth.

UNION ABRASIVE PAPER AND CLOTH

AMUNITE

Discs or Belts, coated with hard artificial grits and bonded fast by our best glue.

AMERICAN GLUE CO.
Boston, Mass.

Snowplane

RACING SLED

Takes the "Sales" Curve "On High"

Its many folding points make ready sales. SNOWPLANES ACTUALLY STEER—RUNNERS CURVE THEIR ENTIRE LENGTH -RIDING ROUND RUNNERS they do not bore—and FRICTION IS REDUCED TO A MINIMUM.

Make it your business to write today for catalog, prices, etc Take this first step to the biggest sled business ever.

S. D. Jackson Co., Portland, Maine

BURNLEY

Soldering Paste

Non-Corrosive

Preferred by mechanics because "it-sticks-to-the-job" and because it is ready for instant use. It can be carried in a tool box without danger of being spilled.

We also make Soldering Sticks, Soldering Salts, and Soldering Solutions. Send for circulars.

BURNLEY BATTERY & MFG. CO.
NORTH EAST, PENN.

THE "Commercial" ANNULAR BALL BEARING

The low-priced ANNULAR ball bearing, built by engineers according to engineering principles. Endurance that satisfies your baby coach and coaster wagon customers. Insist upon "Commercial". Catalog?

The Schatz Mfg. Co.
Poughkeepsie, N. Y.

BERMICO Sheathing Paper

is a profitable item to sell.

Is it in your stock?

Patented U. S and Canada 1915

If it hasn't the flexible cleaning device—it isn't an

"ALL-WAY"

There is only one genuine "All-way" flexible spout cover. Press the spout downward—if the flexible cleaning device protrudes through the nozzle, it's an "All way"

Made of finest quality flexible steel tubing—it will outlast the ordinary oiler many years

Order promptly from your jobber or from

FAMASCO DISTRIBUTING COMPANY
694 Main St. Sole Agents Buffalo, N. Y.

MINNOWS

SOUTH BEND

BASS-ORENO

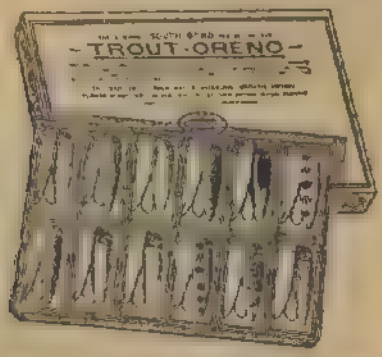
A combination of the under-water and surface minnow. A wobbler type that dives, dashes, darts and wiggles—just like an injured fish. It floats when not in motion. Length of body, 3⅛ inches. Weight, about 1 ounce.

No. 973RH—Red head and white body	Per dozen	$10 20
No. 973BH—Blue head and white body	"	10 20
No. 973F—Imitation frog color	"	10 20
No. 973 Rain—Rainbow color	"	10 20
No. 973SF—Scale finish	"	10 20
No. 973RSF—Scale finish with red blend	"	10 20

BASS-ORENO ASSORTMENT

Assortment contains one each of the above patterns. Each minnow in a separate box. Six in a fancy display carton.
No. 882 .....Per assortment $5.10

TROUT-ORENO ASSORTMENT

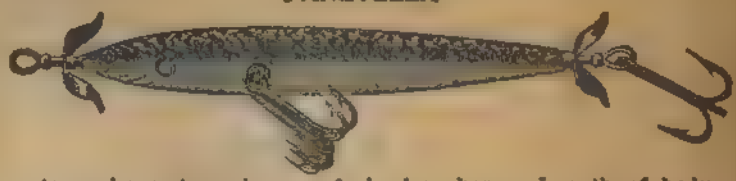


Will act same as Bass-Oreno minnow. Body is 1¾ inches long. Equipped with one No. 4 bronzed hollow point double hook. Each minnow in a separate box. Twelve assorted colors in a display box.
No. 381 .....Per assortment $7.80

FLY-ORENO ASSORTMENT

Will act the same as Bass-Oreno minnow. Body is 1⅛ inches long. Equipped with one No. 9 bronzed hollow point double hook easily detached for reversing. Twelve assorted standard colors in a fancy display box.
No. 380.....Per assortment $7.80

PANETELLA



An under-water minnow of slender shape. Length of body, 4⅛ inches. Equipped with three treble hooks. Weight, about 1¼ ounces.
No. 913SF—Scale finish .....Per dozen $10.20

WINDOW DISPLAY ASSORTMENT

Assortment contains 12 only Bass-Orenos; 2 only Surf-Orenos; 2 midget Surf-Orenos; 2 Panetella minnows, 3 No. 103; 1 No. 904; 1 No. 925 and 1 No. 923 Woodpecker minnows. Also window display card and advertising matter. A complete assortment in corrugated container, ready for re-shipment.
No. 377 .....Per assortment $21.60

CALLMAC FLOATING BUGS

Callmac Bug-Orenos, with patent no-slip body. A fly rod lure for bass and trout. Preferably used with gut leader. Tied on turn-down eye model Perfect hooks. One dozen assorted patterns in a fancy display box.

No. 310—Callmac Bass Bug-Oreno, 1/0 hook.. Assortment $7 80
No. 320—Callmac Trout Fly-Oreno, 10 hook " 6 00

WEEDLESS HOOKS

Weedless type Carlisle hook. Weighted. Weed guards are piano wire of proper gauge and spring.
No. 486W—Size, 6/0.....Per dozen $1.80

MINNOWS

RUSH-TANGO

The Rush-Tango swimming minnow is considered the liveliest bait that floats. It darts and dives in all directions and appears like a live minnow. Made in three sizes, Junior for brook trout, Regular for bass fishing in the following colors:

Regular	Junior	Midget	Colors
Nos. A102	B202	C302	White, red head.
Nos. A103	B203	C303	White, yellow and green mottled back.
Nos. A104	B204	C304	White, red and green mottled back.
Nos. A105	B205	C305	Yellow, red head.
Nos. A106	B206	C306	Yellow, red and green mottled back.
Nos. A108	B208	C308	Red, white head.
Nos. A109	B209	C309	Silver and green.
Nos. A110	B210	C310	Victory gold and green.

Rush Regular—Length, 5 inches. Fitted with two treble hooks

Nos. A102 to A108 Assorted colors ..... Per dozen $10 20
Nos. A109 and A110—Victory finish ..... " 12.00

Rush Junior—Length, 4¼-inch. Fitted with two treble hooks

Nos. B202 to B208—Assorted colors ..... Per dozen $10 20
Nos. B209 and B210—Victory finish ..... " 12.00

Rush Midget—Length, 2⅜-inch. Fitted with one double hook.

Nos. C302 to C308—Assorted colors ..... Per dozen $ 9 00
Nos. C309 and C310—Victory finish ..... " 12.00

TROUT TANGO ASSORTMENT

Trout Tango is a baby tango; acts the same as the regular tango; can be used with or without bait. Length, 1⅝ inches. One-half dozen standard assorted colors in a fancy display box.
Trout Tango ..... Per assortment $4 50

PORK RIND STRIPS

Genuine pig skins, run through a leather splitting machine, then chemically treated to remove the grease. Punched and perforated for ready attachment to all pork rind minnows, bottled in brine and will keep for years. Bass size, 3¾ inches long, ½-inch wide, 12 strips in a bottle.

Per bottle $0.45

PORK RIND

ORIENTAL WIGGLER

Solid celluloid composition, practically indestructible. Made in red and white combination color. Pork rind is attached by impaling on the hook and buttoning the forward end to little button, as per illustration. Complete with size 2/0 hand forged O'Shaughnessy hook.

No. 4
Weight, oz ..... ½
Each $1.00

SHIMMY WIGGLER

All brass, nickel plated. Designed to work successfully in any kind of water. Will catch less weeds than any lure ever invented. Complete with buck tail streamer and size 1/0 hook.

No. 6
Weight, oz ..... ½
Each $1 00

SKIDDER

All brass, nickel plated. A semi-surface lure, skids along near the surface when retrieved. Complete with size 3/0 hand forged O'Shaughnessy hook.

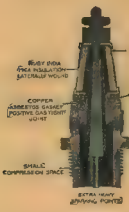
No. 3/0
Weight, oz ..... ⅓
Each $0.75

LITTLE EGYPT WIGGLERS

All brass, nickel plated. Complete with size 3/0 hand forged O'Shaughnessy hook. Practically weedless.

Weight, oz ..... ⅓
Each $0.75

SPLITDORF GREEN JACKET SPARK PLUGS


Green Jacket
HIGH GRADE MICA INSULATION NATURALLY MOLDED
UNSCREW HERE FOR CLEANING
COPPER ASBESTOS GASKET POSITIVE GAS TIGHT JOINT
COPPER ASBESTOS GASKET
SMALL COMPRESSION SPACE
EXTRA HEAVY SPARKING POINTS

Made in a variety of types—in standard sizes and of special dimensions to suit engines of every make—the keynote of the highest quality is sounded in the whole line of Splitdorf plugs. They are as nearly soot proof, leak proof and unbreakable as human ingenuity can make them. India ruby mica, the highest grade of electrical insulation known, is used exclusively in Splitdorf plugs.

Special for Fords

½-inch standard
Recommended for all Ford cars.
No. P179 .....Each $1.00

½-inch standard.
Recommended for all other cars using this size plug.
No. P144 .....Each $1.00

½-inch long
Recommended for all cars using a ½-inch long plug.
No. P182 .....Each $1.00

½-inch extra long.
Recommended for all Metz cars and Reos, 1917, 1918 and 1919 models.
No. P141 .....Each $1.00

⅞-inch long tractor
Heavy duty.
No. P190 .....Each $1.00

⅞-in-18 S.A.E. standard.
Recommended for all cars using this style plug.
No. P163 .....Each $1.00

⅞-inch-18 S.A.E. long
Recommended for Willys-Knight cars.
No. P158 .....Each $1.00

⅞-inch S.A.E. long body.
Recommended for all cars using ⅞-inch-18 long body plugs. Chandler, White cars and Moreland trucks.
No. P785 .....Each $1.00

⅞-inch-18 S.A.E. long.
Recommended for all Buick cars prior to 1918 models.
No. P174 .....Each $1.00

⅞-inch-18 S.A.E. long heavy hexagon. Special heavy duty Buick.
No. P784 .....Each $1.00

⅞-inch-18 S.A.E. long.
Recommended for Overland 6, Premier and Winton cars.
No. P165 .....Each $1.00

⅞-inch-18 S.A.E. long.
Recommended for Franklin air cooled motors.
No. P182 .....Each $1.00

Metric
For all motorcycles using Metric plugs.
No. P126 .....Each $1.00

Metric
For Essex, French Renault cars, also Packard, Peerless and Pierce-Arrow cars and trucks prior to 1915.
No. P148 .....Each $1.00

¾-inch long.
Recommended for all tractors using this size plug.
No. P178 .....Each $2.00

A. C. TITAN SPARK PLUGS

A. C. TITAN ½-INCH CARBON PROOF

A non-separable porcelain plug. The porcelain is provided with a number of ribs, having saw-tooth edges, which attain a sufficiently high degree of heat to burn away the carbon. Especially adapted for use in Ford, Studebaker and Overland cars. Are being used by the new Ford tractors, using kerosene for fuel, and in which the ordinary plug will not stand up. Made only in ½-inch size.

No. 12CPT ....Each $1.00

A. C. TITAN ½-INCH LONG

Regular equipment on Reo cars and trucks.

For Overland up to 1914, and Winton to 1915.

No. 12LT .....Each $1.00

A. C. TITAN ⅞-INCH REGULAR

Regular equipment on Buick 4-cyl. 35, Cole, Cadillac, Chalmers, Davis, Gramm, Glide, G. M. C., Jeffrey, Jordan, Kissel Empire, Olds, Oakland 8, Packard Twin 6, Peerless, Pierce-Arrow, Stutz, Velie, Westcott, Abbott and Anderson.

No. 78RT .....Each $1.00

A. C. TITAN ⅞-INCH LONG

Regular equipment on Buick, Chalmers 32, Chevrolet, Enger 12-cylinder, McLaughlin, Scripps-Booth 4, Chevrolet 490.

No. 78LT .....Each $1.00

A. C. TITAN ⅞-INCH LONG BODY

For motors requiring a long body plug. Regular equipment on Chandler, National, Stephens, White, Crane-Simplex, Jackson and Moreland trucks.

No. 78LBT ....Each $1.00

A. C. TITAN METRIC

Regular equipment on Essex.

Are recommended for Pierce Arrow 1915, Peerless 1915, and all cars using metric plugs.

No. 18MT .....Each $1.00

A. C. TITAN METRIC SHORT

Regular equipment on Peerless trucks up to 1915. Correct size for Packard cars and trucks up to 1915, and for White.

No. 18SMT ....Each $1.00

A. C. TITAN METRIC LONG

Suitable for Scripps-Booth 8. Length ⅞-inch from gasket shoulder to firing point.

No. 18LMT ....Each $1.00

A. C. TITAN S. A. E. REGULAR

Regular ⅞-inch 18-thrd body, ⅞ hexagon. Regular equipment on Apperson 6, Velie, Haynes, Daniels, Stearns-Knight, Marmon and Murray.

No. SAET .....Each $1.00

A. C. TITAN S. A. E. LONG

Same character as regular S.A.E. plug, but has longer shell. For motors requiring an extension plug. Regular equipment on Oakland 32 and 34B, Apperson 8, Mercer, Premier, Monroe, Olds 6-cyl., Scripps-Booth 6 and Nash up to 1919.

No. SAELT ...Each $1.00

A. C. TITAN S. A. E. EXTRA LONG

Regular equipment on Nash 1920.

No. SAENT ...Each $1.00

A. C. TITAN ⅞-AIRCRAFT REGULAR

Specially designed for high speed, high compression motors and for air cooled motors. Regular equipment on National cars. Particularly recommended for motorcycles.

No. 78RATT Each $1.00

A. C. TITAN ⅞-INCH DODGE SPECIAL

Slightly longer than ⅞ regular. Regular equipment on Dodge cars.

No. 78DT .....Each $1.00

FISHING RODS

SPLIT BAMBOO, FLY

Divine Rainbow—Three-piece and extra tip. Hand made from selected bamboo. Serrated ferrules. All mountings gun metal. Perfection first guide and two perfection tips. Extra silk windings Lengths, 9½ and 10 feet Weight, 5½ to 6¼ ozs. Tips in separate bamboo case. Each rod in canvas partition bag.....Each $35.00

Divine Six Strip—Three-piece and extra tip. Hand made from carefully selected bamboo in six strips. Best silk wrappings. High grade varnish; will not crack under severe strain. Cork grip Silver mountings. Tips in separate bamboo case. Each rod in canvas partition bag. Length, 9½ and 10 feet. Weight, 5½ to 6½ ozs..... " 35.00

De Luxe—Three-piece and extra tip. Hand made from the best selected Calcutta bamboo. 10 inch solid cork grip with swelled butt. Gun metal finish mountings. Snake guides. Red and black silk wrapping at very close intervals. Tips in separate bamboo case. Each rod in canvas partitioned bag. Lengths 9 and 9½ feet. Weight, 6½ to 7 ounces..... " 30.00

Pacific Special—Three-piece and extra tip. Hand welted serrated ferrules. Silver mountings. Whipped angle tips. Solid metal reel seat. 8½-inch solid cork grip. Wrapped beautifully in dark red and light yellow silk wrappings. Hand made. Snake guides. On velvet form. The very best rod ever offered for the money. Length, 9, 9½ and 10 feet. Weight each, 6 to 8 ozs..... " 20.00

No. 613½—Three-piece and extra tip. Special extra long solid cork grip. Made from selected cane. Full silver mountings. Hand made reel plate below hand. Fine silver serrated ferrules. Silk wound agate casting guide on butt, balance bronze steel snake guides and agate fly tips. Wound in clusters with jasper and scarlet silk. Finely finished and put up in a velvet covered form and canvas bag Lengths, 9 and 9½ feet .Each $24.00

No. 650—Three-piece and extra tip. Enameled dark green, light green silk windings, solid cork grip gun metal mountings, agate guide on first joint, agate angle tip, gun metal snake guide on second and tip joints. Lengths, 9 and 9½ feet. Weight, about 6½ ozs. Put up on velvet form with leather end caps..... " 20.00

"President"—Three-piece and extra tip. Silver mountings. Hand welted reinforced shoulder, serrated ferrules. Bronzed snake guides. Red, white and black silk wrappings. On green velvet form in canvas bag. Length, 9, 9½ and 10 feet. Weight each, 6½ to 7 ozs..... " 18.00

Rainbow Special—Three-piece and extra tip. Nickel mountings. Welted ferrules. Whipped angle tips. 8¼ inch solid cork grip. Fancy mottled silk wrappings. Snake guides. Put up on velvet form. Length 9, 9½ and 10 feet. Weight each, 6 to 8 ounces..... " 17.00

No. 657—Three-piece and extra tip. Nickel plated mountings. Welted ferrules. Solid cork grip. Snake guides. Green silk wrappings. Tips in a separate bamboo case. Each rod in canvas bag. Length, 8½ to 9½ feet. Weight each about 6½ ounces..... " 13.50

Creek Whipper—Three-piece and extra tip 6 inch solid cork grip. Nickel mountings Mottled silk wrappings. Welted ferrules. Snake guides. Put up on velvet form. Lengths 9, 9½ and 10 feet. Weight each, 6½ to 8½ ounces..... " 14.00

No. 655—Three-piece and extra tip. Nickel plated mountings. Welted ferrules. Cork grip. Snake guides. Dark red and yellow silk wrappings. Tips in a separate bamboo case. Each rod in cloth bag. Length, 9 and 9½ feet. Weight each, about 6½ to 7 ounces..... " 11 00

LEVEL GLASSES
PROVED

Extra thick tubing. Marked at highest of crowning point by two indelible lines.

Size inch	1-1¾	2	2½
Per gross	$9.00	11.00	12.00

Size inch	3	3½	4
Per gross	$13 50	13.50	17 00

Size, inch.	1¼	1½	2	2½	3
Per assortment					$16.80

One dozen in a wood box; weight per gross, 2 to 6 lbs.

WITH GUARD

For level No. 37.

No. 37L—			
Length of level, inch.	12	18	24
Length of glass, inch	2½	2½	2½
Weight per dozen, lbs	1½	1½	1½
Per dozen	$10.00	10.00	10.00

WITHOUT GUARD
For level No. 36

No. 36L—			
Length of level, inch	12	18	24
Length of glass, inch	2½	2½	2½
Weight per dozen, lbs	1¼	1¼	1¼
Per dozen	$6 50	6.50	6.50

PLUMB GLASSES
WITH GUARD

For level No. 37.

No. 37P—			
Length of level, inch	12	18	24
Length of glass, inch	1⅛	1⅛	1⅛
Weight per dozen, lb	1	1	1
Per dozen	$10.50	10.50	10.50

WITHOUT GUARD
For level No. 36.

No. 36P—			
Length of level, inch	12	18	24
Length of glass, inch	1	1	1
Weight per dozen, lb	1	1	1
Per dozen	$4 50	4.50	4.50

All glasses, one dozen in wood box.

LEVEL SIGHTS
STANLEY

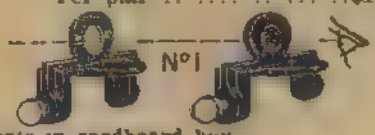
Adjustable. Cast iron frame. Polished and blued finish. Steel set screws.

For Iron Levels

No.	2
Weight, lbs	¼
Per pair	$1 50

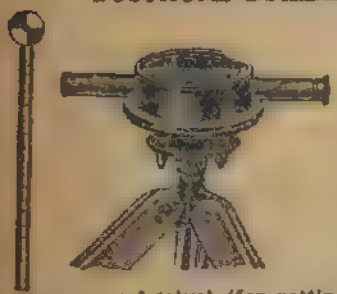
For Wood Levels

No.	1
Weight, lbs	¼
Per pair	$1 20



Above one pair in cardboard box.

LEVELS
BOSTROMS BUILDERS WITH TELESCOPE



For builders and contractors. Brass, highly lacquered and finished. Graduated circle, divided into 360 degrees, numbered from zero to 90 degrees in both directions, giving zero points on opposite sides of the circle. Clamping screw for holding in any position. The telescopes are achromatic, giving a clear field, with magnifying eye-piece. Packed in hardwood box with lock and leather strap and contains a metal trivet (for setting level where the use of tripod is difficult), adjusting pin, plumb bob and sun shade.

No. 8—Complete with plumb bob, tripod and graduated rod with target. The magnifying power of the eye-piece is 10 to 12 diameter. Weight complete, 13 lbs.

Each $37.50

BOSTROMS FARM WITH TELESCOPE

Particularly adapted for leveling farms, also for terracing, ditching, irrigating and drainage work. Circle graduated to degrees. Metal parts made of iron, black enameled finish. Sliding telescope tube and level made of brass, polished and lacquered.

Level plumb and target in wood box, tripod and rod in bundle.

No. 2—Complete with plumb bob, tripod and graduated rod with target. Weight complete, 12 lbs.

Each $25 00

Above, in hardwood boxes.

MERCURY PLUMB BOB
STARRETTS

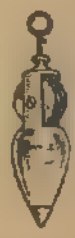
Made from solid steel nickel plated, bored and filled with mercury. Great weight in proportion to size, low center of gravity, small diameter, hardened and ground points, knurling on the body. Device at top for fastening end of line after winding up. Each with a braided silk line.

No. 87—Weight, ozs	4	8	14
Length, inch	4	5	5½
Diameter, inch	½	⅝	¾
Each	$1.80	2.40	3.00

One in a cardboard box.

PLUMB BOBS
STANLEY ADJUSTABLE

Constructed with reel at upper end, upon which the line may be kept. By dropping the bob with a slight jerk, while the ring is held in the hand, any desired length may be reeled off.



Nos.	Small Bronze 1	Large Bronze 2	Large Iron 5
Length, inch	3½	4	4½
Weight each, ozs.	10	11	12
Each	$2 40	2.75	1.25

One in cardboard box.

BRASS

Cast brass. Polished hardened steel points. Screw top with hole in center to pass line through.

Nos.	50	60
Length, inch	3⅛	3½
Diameter top, inch.	1⅜	1⅝
Weight each, ozs.	6½	12
Per dozen	$9.00	12.50

One-half dozen in a cardboard box.

IRON

Japanned cast iron. Adjustable top.

Nos.	9½	18	42
Length, inch	2⅝	3⅝	4¼
Diameter, inch	1¼	1⅞	2
Weight each, ozs.	9½	18	42
Per dozen	$2.25	4.00	8.00

No. 9½, one dozen; No. 18, one-half dozen in a cardboard box; No. 42, loose.

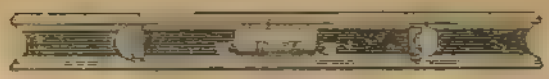
Nickel plated. Accurately turned from solid steel. Guaranteed perfectly true.

Nos.	$8 206	$8 212
Length, inch	3⅛	4
Diameter at top, inch	1⅜	1¾
Weight each, ozs.	4	8
Per dozen	$2 40	$3 50

One-half dozen in a cardboard box.

PLUMBS AND LEVELS

STANLEY ALUMINUM



Tops and bottoms milled and ground to two perfectly parallel surfaces: a distinct advantage. Adjustable proved glasses. Plumb and level glasses are protected by a metal shell, which can be turned so as to entirely cover the glass when the level is not in use.

No. 237—Length, inch	12	18	24
Weight each, lbs	1	1¼	1¾
Each	$5.00	6 00	7 00

SANDS ALUMINUM

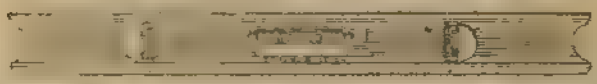
Cast aluminum frame, accurately machined top and bottom, insuring two perfectly parallel surfaces. Double construction. All spirit glasses covered by heavy plate glass—dust and water proof.

No. A18V is grooved, which is convenient for leveling shafting. A18V and A24 have two plumbs and two levels. A28 has four plumbs and two levels.

Nos.	A18V	A24	A28
Size, inches	18x2¼x1-1/16	24x2¼x1-1/16	28x2¼x1⅛
Weight each, lbs	1¾	2	2½
Each	$6 25	8 00	9.00

One in a wood box.

STANLEY METALLIC



Nickel plated, cast iron frame. Adjustable ground level glasses incased in nickel plated steel eclipse cases, 1 level glass and 2 plumb glasses. Grooved cut on bottom for shafting work, etc.

No. 37G—Length, inch	6	9	12	18	24
Weight each, lbs	1	1⅛	2	3¼	4½
Each	$3 50	4 00	5 00	6 00	6.50

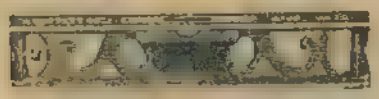
Above one in a cardboard box.

Japanned, cast iron frame. Nickel plated edge. Adjustable proved glasses, incased in nickel plated casing. 1 level glass and 2 plumb glasses. Grooved cut on bottom for shafting work, etc.

No. 36 G—Length, inch	6	9	12	18	24
Weight each, lbs	1	1¼	2	3¼	4½
Each	$3 00	3 50	3.50	4 00	4.50

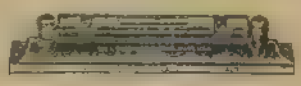
One in a cardboard box.

STARRETTS



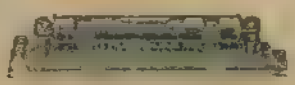
Parallel level and double plumbs. Cast iron frame, japanned center and polished edges. Longitudinal groove in seat of base. For cylindrical tubes, pipes, etc.

No. 132—			
Length, inch	4	6	9
Weight each, lbs	½	1	1¼
Each	$1 65	1.80	2.00
Length, inch	12	18	24
Weight each, lbs	1¾	3	4¼
Each	$2.10	2.40	2.70



Parallel level. Nickel plated tubes. Japanned base. Concave groove in seat of polished base for leveling shafting, etc.

No. 95—		
Length, inch	6	8
Weight each, lbs	1¼	1⅞
Each	$1.50	1 80

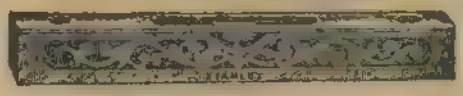


Parallel and cross levels. Nickel plated tubes. Japanned base. Concave groove in seat of polished base for leveling shafting, etc. Cross level for accurately gauging all surfaces sideways with protector. The 12-inch also has plumb glass.

No. 97			
Length, inch	6	8	12
Weight each, lbs	1¼	2	3¾
Each	$2.10	2.40	3.00

Above, one in a wood box.

STANLEY MACHINISTS' IRON



Nickel plated, cast iron frame. Nickel plated steel top, screwed to frame. Two side views. Proved level glass.

No.	39½
Length inch	6
Weight per dozen, lbs	8
Per dozen	$15 00

STANLEY ECLIPSE

Nickel plated, cast iron frame. Adjustable ground glass, with protector, with V bottoms for leveling up shafting.

No. 84—			
Length, inch	4	6	8
Weight per dozen, lbs	8	10	14
Per dozen	$20 00	24 00	30 00

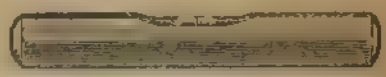
LEONHARTS STRAIGHT EDGE

One piece of steel. Nickel plated. Proved level glass.

No.	150
Width, inch	3
Weight per dozen, lbs	2
Per dozen	$6.00

One-twelfth dozen in a cardboard box.

POCKET
STANLEY HEXAGON



Nickel plated. Hexagon. Steel case. Proved glass.

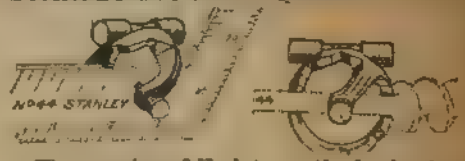
No.	31
Length, inch	3
Weight per dozen, lbs	¾
Per dozen	$8.50

STANLEY JAPANNED

Japanned cast iron. Proved glass.

Steel set screw	Cast Iron Top	Brass Top
Nos.	40	41
Length inch	3⅛	3¼
Weight per dozen, lbs	2	2
Per dozen	$2 60	3 00

STANLEY BIT AND SQUARE LEVEL



Three pairs of V slots on the back edge of the circular frame. The shank of a bit will lie in these slots either horizontal, vertical or at an angle of 45 degrees, and the boring can be done with accuracy by observing the level glass while turning the bit.

No.	44
Weight per dozen, lbs	1⅛
Per dozen	$6.00

STANLEY PLANES

DADO FILLETSTER AND MATCHING

No 46

Skew cutters are the feature of this plane. It consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding sect on carrying a spur and forming an extra sole for the plane and a fence (rosewood face) which can be set for either plow or filletster work. It has a rosewood knob and handle. Nickel plated.

The cutters comprise 8 plow and dado bits, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 7/8 and 1 1/4 inches; a 1 1/2-inch filletster cutter; a 1/4-inch tonguing tool and a slitting cutter.

No.	46
Length, inch	10 1/2
No. cutters	11
Weight each, lbs	5 3/4
Each	$17.00

IMPROVED SCRUB

Iron stock. Japanned trimmings Single iron, with the cutting edge rounded, and is particularly adapted for roughing down work before using a jack or other plane.

No.	40
Length, inch	9 1/2
Cutter, inch	1 1/8
Weight each, lbs	2 1/2
Each	$4.50

SINGLE HANDLE VENEER SCRAPER

Blades adjustable endwise and for angle, and can be firmly locked in position desired. Can be used as a toothing and scraping plane, also for roughing up the surface of wood preparatory to veneering same. It has rosewood knob but no handle. Japanned.

No.	212
Length, inch	5 1/2
Blade, inch	1 5/8
Weight each, lbs	1 1/2
Each	$5.00

UNIVERSAL HAND BEADERS

For beading, reeding or fluting straight or irregular surfaces and for light routing. With each beader are furnished a square gauge for straight work and an oval gauge for curved work. Also furnished eight cutters sharpened at both ends as follows: 6 single beads 1/8, 3/16, 1/4, 5/16, 3/8 and 1/2 inches; 2 fluting tools 3/16 and 1/4 inches; 4 reeding tools (2 beads 3/16-inch, 3 beads 1/4-inch and 3 beads 1/8-inch and 4 beads 1/8-inch), 2 routers 1/8 and 1/4-inch, and a 5/8-inch blank, which latter cutter the owner can file up as he desires. Curved handles

No.	66
No. steel cutters	8
Weight each, lbs	1 5/8
Each	$9.00
Extra cutters or blanks	Each $1.10

ADJUSTABLE SCRAPER

Used for scraping and finishing veneers or cabinet work. It can be used equally as well as a tooth plane and will do excellent work in scraping off old paint and glue

No.	112
Length, inch	9
Cutter, inch	3
Weight each, lbs	4 1/4
Each	$7.75
Extra blades	Each $0.75
Extra toothing blades, Nos. 22, 23 or 32	" 1.10

IMPROVED ROLLER

Can be adjusted to any desired pitch and may be worked to or from the person using it. Roller acts as a support to relieve the strain on the wrist and hands of the workman. Handles can be detached for working in corners.

No.	83
Size of blade, inch	3
Length over all, inch	9 1/2
Weight each, lbs	1 1/4
Each	$2 30
Extra cutters	Each $0.45

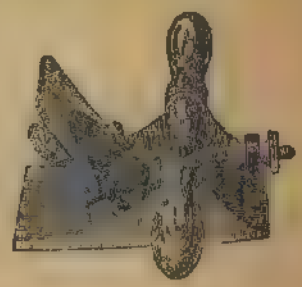
All above, one in a cardboard box

EDGE TRIMMING

Japanned. This plane is designed especially for trimming or smoothing the ends of boards, such as sidings, etc., for a square or close fit. It has a right angle rest or guide from the cutter edge, and the cutter works on a skew giving an easy shaving cut. In the rest or guide are two screw holes to which wood blocks of various bevels may be attached enabling the user to make a slanting cut

No.	95
Length, inch	6
Cutter, inch	7/8
Weight each, lbs	1 1/4
Each	$3 75

ADJUSTABLE VENEER SCRAPERS



No. 12

Takes the same cutters as scraper plane No. 112. For many kinds of work its peculiar form is of great advantage.

Nos.	12	12 1/2
Length, inch	6 1/4	6 1/4
Cutter, inch	3	3
Weight each, lbs	4	4
Each	$0 00	12 50
Extra blades	Each $0 75	
Extra toothing blades, Nos 22, 23 or 32	" 1.00	

No 12 1/2, with wood face.

HANDLED CABINET

Rosewood face. Goes over surface very smoothly. Blade set at angle to give satisfactory work at all times. Nickel plated frame and raised handles. Polished steel tempered blade.

No.	81
Size of blade, inch	2 1/2
Length over all, inch	10
Weight each, lbs	2 1/4
Each	$6 00
Extra cutters	Each $0.45

CABINET SCRAPERS

ADJUSTABLE
STANLEY

Steel blade. Can be adjusted to set at any angle. Japanned cast iron frame and handle shank. Polished maple handle and knob. Steel screw.

No.	82
Size of blade, inch	3
Length over all, inch	14½
Weight each, lbs.	1¾
Each	$3 80
Extra cutters	Each $0.45

One in a cardboard box.

SCRAPER AND HOLDER

Any style or size of scraper can be firmly held. The slant enables its use in corners and out-of-way places. Each holder furnished with a beveled edge blade. Plain beechwood handle. Tempered and polished tool steel blade. Malleable iron clamp and screw.

No.	2
Length handle, inch	12
Blade inch	3x3
Weight per dozen, lbs.	12
Per dozen	$12.00

One-half dozen in cardboard box.

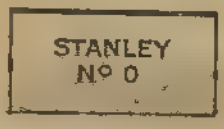
MALLEABLE IRON
STANLEY

Blade may be sprung to a slight curve by the thumb screw shown at center of cut which will be found a great advantage in working with this tool. Raised handles.

No.	80
Size of blade, inch	2¾
Length over all, inch	11
Weight each, lbs.	2
Each	$2 40
Extra cutters	Each $0.45

One in a cardboard box.

STANLEY FLAT STEEL



Flat 18 gauge steel. Cut from saw steel. Polished and tempered.

Nos.	20		22
Size, inch	2½x5		3x4
Weight per dozen, lbs.	2		2
Per dozen	$7 50		7 50
Nos.	24	26	28
Size, inch	3x5	3x6	3½x6
Weight per dozen, lbs	2½	3	3¾
Per dozen	$8.00	9.00	10.50

One-half dozen in a cardboard box.

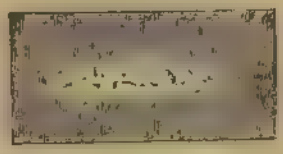
STEARNS

The blade of this scraper is of special quality steel, carefully tempered. Malleable frame. Japanned finish. Raised handles.

No.	8
Size of blade, inch	2¾
Length over all, inch	11
Weight each, lbs.	2
Per dozen	$21 00

One in a cardboard box.

DISSTONS FLAT STEEL

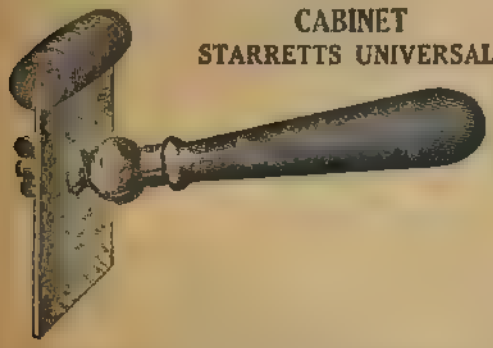


Made from 18 gauge crucible steel, highly polished.

Nos.	34		35
Size, inch	3x4		3x5
Weight per dozen, lbs.	2		2
Per dozen	$2 50		2.70
Nos.	36	44	45
Size inch	3x6	4x4	4x5
Weight per dozen, lbs	2½	3	3½
Per dozen	$2 80	3 10	3.40

One dozen in a cardboard box.

CABINET
STARRETTS UNIVERSAL



Edges of blades are ground perfectly square. There are therefore eight sharp cutting edges, and any of them can be brought into use by means of the handle with its ball joint connections. To lock or release the joint or place the blade at any angle it is simply necessary to give the handle a slight turn. Blade can be removed by removing the wing nut. Guard may be instantly slipped on or off either side or end of blade, and enables one to use the tool with arm grip.

No.	194
Weight each, lbs.	1¼
Each	$1 20
Extra Blades	Each 0.20

One in a cardboard box.

SCRAPERS

FLOOR
STEARNS

Adjustable cross-handle. Aluminum finish, with rubber wheels. The knife scrapes the floor when the machine is drawn towards the operator, and will, therefore, in connection with the adjustable cross-handle, which may be placed to one side or the other, work up to the wall and into corners. On using this see that the screw in the top of the cap is adjusted so that it will strike level on the knife. After once getting this screw in the proper place, leave it there, and in removing the knife for sharpening, always use the screw where the slot is. The knife is firmly clamped in the scraper, which, together with the weight of the machine, nearly all of which rests on the knife, prevents vibration or chatter, doing away with all wavy effects on the floor.

No.	10
Width of cut, inch	6
Diameter of wheel, inch	5
Length of handle, inch	38½
Length over all, inch	64
Weight each, lbs.	135
Each	$40.00

One in a case.

COMBINATION VISES

PARKER

For Machine and Pipe Work

Heavy Body, Steel Faces, Milled and Fitted to Jaws; Double Pipe Jaws.

Nos.	87	88	288-½	288½-½
Width of Jaws, In.	3¾	4¼	4¾	5⅝
Jaws Open, In.	4¾	6	6½	9½
Holds Pipe, In.	⅛ to 2	⅛ to 3	⅛	6
Weight Each, Lbs.	41	59	105	155
Each	$15 00	20 00	28 00	35 00

Open Stock

OVAL SLIDE VISES

PARKER

Used by Farmers, Carpenters, Repair Shops, Blacksmiths and General Work Anywhere

Cast Iron with Inserted Steel Faces in both Jaws. Polished Steel Screw and Slide Handle; Top Ridge of Slide Fitted into Groove to Back Jaw, presenting side only when Slide is extended.

Nos.	030	30	31	32
Width of Jaws, Inches	2½	2¾	3	3¼
Jaws Open, Inches	2¾	3½	4	4
Weight Each, Lbs.	8	8½	13	19
Each	$2 50	3 00	3 50	4 40

Open Stock

COMBINATION VISES AND ANVILS

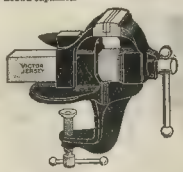
"VICTOR-JERSEY"

Strong, Serviceable Tools, popular with both Mechanics and Amateurs. The Screw (Body, Head and Collar) is in One Piece, Turned from Cold Rolled Steel, and has a Square Lathe-Cut Thread. The Steel Jaws are Hardened and all Jaws are Ground to insure that they meet squarely when tightened. Both Back and Front Jaws are Filed to Fit. Brown Japanned.

Clamp Base, Plain Iron Jaws

Nos.	Width Jaws In.	Weight Lbs.	Each
741	1½	3	$0 70
742	1¾	3¼	90
743	2	3½	1 00
744	2¼	4	1 25
745	2½	5	1 50
746	3	8½	2 00

One in a Package



Clamp Base, Hardened Tool Steel Jaws

Nos.	Width Jaws In.	Weight Lbs.	Each
761	1½	3	$0 95
762	1¾	3¼	1.15
763	2	3½	1.30
764	2¼	4	1.55
765	2½	5	1.85
766	3	8¾	2.50

One in a Package

Swivel Base, Hardened Tool Steel Jaws

Nos.	Width Jaws In.	Weight Lbs.	Each
771	1¾	3	$1 25
772	2	3½	1.45
773	2¼	4½	1.75
774	2½	5½	2.10
775	3	9½	2.85

One in a Package

STANLEY VISE ASSORTMENT

Cast Iron Standards, Black Painted with Silvered Letters; Maple Ring and Base Board.

Dimensions: Spread at Base, 13x12½ in.; Height 31 in.

Per Assortment

No. 12—Assortment Consists of 12 Vises and Display Stand $14.20

One Assortment in a Case

Assorted as follows:

Vise Nos.	741	742	743	744	745	746	761	763	772
Quantity	2	2	2	2	1	1	1	1	1

PIPE VISES

REED'S SELF-LOCKING

Japanned Malleable Iron Frame; Polished Steel Screw and Sliding Handle; Jaws are Milled from Solid Tool Steel Bars, carefully Hardened, tempered in oil to give toughness and each one tested; Opens Either Right or Left by Placing Bolt in Either Lug.

Standard Grade

Nos.	700	70	71	72	73
Holds Pipe, In.	⅛–1½	⅛–2	⅛–2½	⅛–3½	⅛–4½
Weight Each, Lbs.	5	10	16		25
Each	$3 60	4 25	5.00	7.50	11 00

Extra Heavy Grade

Nos.	64	65	66
Holds Pipe, In.	⅛–6	1–8	1½–12
Weight Each, Lbs.	40	81	153
Each	$23.50	47 50	70.00

Packed Loose, Open Stock

VULCAN CHAIN

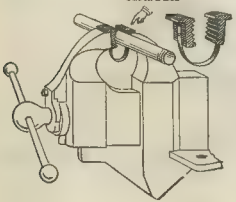
For Holding Pipe, Bolts, Bars, Shafts, etc., from ⅛ to 8 In. Diameter

Unbreakable, Compact, Rapid in Action and Positive in Gripping Pipe. Can be Carried by Hand or in Tool Bag.

Made of Wrought Steel with Drop-forged Jaws of Saw-Tempered Steel for File-sharpening; Hand-made Chain of Highest Quality.

Nos.	1	2	4
For Pipe, Sizes	⅛–2	¼–4	¾–8
Weight Each Boxed, Lbs.	4	10	30
Each	$3 50	7.50	18.00

One in a Box



TOLEDO

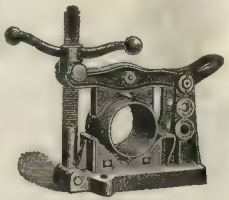
With Extra Wide Jaws

Will not Crush Pipe, Mar Pipe with Polished Surface, will Grip Absolutely Tight with Half the Screw Pressure necessary in using the ordinary vise.

Malleable Hinged Frame; Tempered Tool Steel Jaws. Can be opened either Right or Left; Jaws can be recut.

Nos.	1	2
Holds Pipe In.	⅛–2½	¼–4½
Width of Jaws, In.	1¾	1½
Weight Each, Lbs.	18½	35
Each	$10.00	$20.00

Packed Loose Open Stock



JARECKI

For Holding Pipe, Bars, etc., also a Handy Vise for Taking Apart Old Work

Solid Iron Frame; Hardened Tool Steel Jaws; Beam Holding Upper Jaw is Hinged allowing Pipe to be placed in Vise at the side.

Nos.	1A	2A
Holds Pipe In.	⅛–2	¼–4
Weight Each Lbs.	87	188
Each	$12 00	16.00

Open Stock

VISE JAWS

Will Make Any Ordinary Vise a Pipe Vise; Holds Anything Round, Little or Big

Per Dozen Pairs

Eight—Two cast Plates, 1½ in square, with Pipe Teeth; Plates fastened together by means of Flat Steel Spring, ⅓ in. wide. $5.00

¼ Dozen Pairs in a Box; Weight per Dozen Pairs about 6 Lbs.

Equip the Barn Complete

Getting the agency for the STAR Line means inviting business as a complete barn outfitter. You have a line with "Something to sell the whole year around".

One STAR sale helps you open the way for another. Selling a STAR litter carrier, for example, makes it easier for you to sell STAR door hangers, STAR hay tools, STAR water bowls for stall and stanchions for the same barn.

As one dealer remarked: "Selling STAR goods makes one hand wash the other. Every time I or a STAR salesman in this territory make a STAR sale, we have a chance to include the sale of something else in the STAR line, which, of course, means more good business".

Who is selling the STAR Line in your territory? If the territory is not now represented, write us and let us tell you how you can turn it into a money-maker for you as a complete barn outfitter.

Ask for the STAR Catalog and Barn Book.

HUNT, HELM, FERRIS & CO.

Complete Barn Outfitters

Harvard, Ill. **Albany, N. Y.**

Designers and Builders of

STAR Equipment

The STAR Line

"Something to Sell the Year Around"

Stalls, Stanchions and Pens
Litter Carriers
Water Bowls
Feed Trucks
"Harvester" Hay Tools
Door Hangers
Garage Equipment
Coaster Wagons
Tank Heaters
and Other Farm Specialties

STIMULATORS

JUVENILE WHITE ENAMELED FURNITURE ASST.

Always in demand. This price is low

F213—4 styles, white enamel, 1 drawer, 1 door, 18x9x30 in. high, [illegible] Each **$1.70**

STEEL PASSENGER TRAIN

One of the best sellers on the market. This price allows you a good profit

F2357—33½ in. long, heavy gauge steel, baked red enamel finish locomotive and 3 cars, yellow enameled cars, gold and green outlined, each in box, ½ doz. in pkg. Doz **$7.95**

C. E. CARTER MECHANICAL HORSE AND CART

Guaranteed to give satisfaction. A fine acting, mechanical toy that sells very rapidly. Note low price

F4296—[illegible] Each **$2.85**

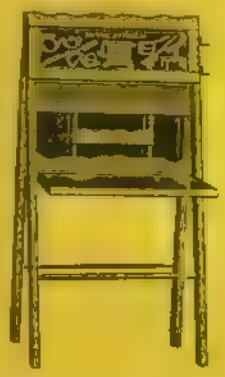
BUTTERFLY PUSH WHEEL TOY

Add this to your line of toys. The turnover is quick and profit good.

F2355—[illegible] Each **$1.15**

BLACKBOARD AND DESK SET

Furnishes instruction as well as entertainment for children of all ages.



F431—[illegible] silboard, drop writing [illegible] clark writing [illegible] for letters Each **$2.85** (Total $17.10)

"KEY-D" HORSE

A novelty wheel toy that is well worth stocking. Will stand hard usage

F952—H[illegible] length 28 in., seat [illegible] floor. Made of 1½ [illegible] pie, all joints screwed [illegible] bevel edges, [illegible] nailed bridle [illegible] hd wood [illegible] neck and [illegible] Each **$2.95**

SHOOFLY ROCKING HORSE

Sells big during the holiday season

F370—17x32, oil finished natural wood striped and ornamental printed mane and saddle on [illegible] Ship wt. 38 lbs. Each **$13.75**

TRIANGLE TRUSS FRAME PLAIN-BEARING VELOCIPEDES

Especially priced for this month. Order your requirements now

Extra well made and durable, triangle truss frame gives great strength to backbone and rear axle also axle as model [illegible] [illegible] [illegible]

VISES ANVILS & FORGE

Standard quality materials and experienced workmanship used in making these first-class tools. Items that can be depended upon to give that degree of service that assures complete satisfaction. When in other quarters with rest is that there are absolutely no better values on the market today. Profit by the experience of others and order all of your requirements here.

"COLUMBIAN" STEEL VISES

Steel Bar. High grade malleable iron frame, swivel base, rough steel sliding jaw, machine turned screw, knob and half hardened and tempered crucible steel inserted jaws, polished anvil. 1 lb pkg.

	Jaw	Jaws	Each
2H3810	3 in.	2¼ in.	$4.95
2H3840	4 "	2¾ "	7.85

Stationary Base. Malleable iron body, solid screw, steel sliding jaw, chilled and hardened steel inserted jaws, steel bar, slide handle and polished vise. 1 lb pkg.

	Jaw	Opens	Each
2H3884	3 in.	3 in.	$7.85
2H3900	4 "	4½ "	9.85
2H3920	5 "	5½ "	13.25

Swivel Combination Pipe. Body made from highest grade malleable iron, solid wrought steel [illegible] steel inserted jaws, steel bar, slide handle and polished vise. 1 lb pkg.

	Jaw	Opens	Each
2H3960	3½ in.	3½ in.	$9.85
2H3962	4½ "	4½ "	15.85

Jaws hold pipe from ⅛ to 3½ in. 1 lb pkg.

2H3962—Jaw 3½ in., opened 14 in., wt. 46 lbs. Each $15.85

BONNEY "CHAMPION" VISES

Anvil pattern, steel front jaws, clamp pattern all screws lathe cut, finished in bright maroon. 1 lb.

	Jaw	Lots of 2	Each
2H3588	2½ in.		$1.75
2H3599	3½ "	3¼	2.75

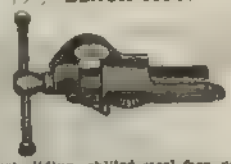
"CLIPPER" NEVERBREAK STEEL SAW CLAMP

2H3498—12 in. over all, 10 in. nickel plated frame, jaw work of steel, serrated and grooved to prevent saw from slipping, [illegible] 1 lb pkg. Doz $12.00

STANLEY "VICTOR" JERSEY VISE

2H788—Mfrs. H285). 2½ in. jaws, 5 lbs. cast rolled steel 1 pc. body, head and collar square lathe cut thread hardened and grounded steel jaws, truer security when tightened. 1 lb pkg. Each $3.35

BENCH VISES



Oval sliding, chilled steel face, polished jaws cut screw, black japanned finish. 1 lb pkg.

2H3410	2½ in. jaws, 5 lbs.	Each $2.65
2H3413	3½ in. jaws 14 lbs.	" 3.95
2H3419	3½ lb. jaws, 32 lbs.	" 5.00
	Lots of 6	" 3.00

COMBINATION ANVIL VISE

STAR VALUE

2H3834—36 lbs. 3 in. jaws cast iron, chilled steel face, [illegible] steel screw, black japanned base. 1 lb pkg.

Each Temp. Out

ANVIL

2H1594—40 lbs. wrought steel body, hot cut face, hammer [illegible] enamel. 1 lb pkg.

Each $4.25

PIPE VISE

2H3812—12 in. high, self locking, hardened tool steel jaws, inserted and interchangeable, takes pipe to 3½ in. 1 lb pkg. 12 lbs.

Each $3.85

MALLEABLE IRON SCREW CLAMP

2H7808—[illegible] malleable iron frame, [illegible] screw with swivel head, screw head turned through which prevents [illegible] 1 doz in box

Doz $4.75

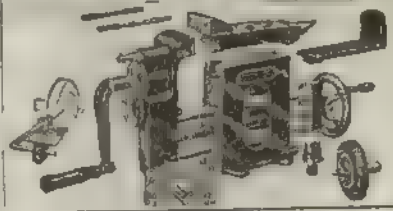
Make your window display effective

THE BUTLER WAY WINDOW TRIMMER

shows you how to get the most out of display space to large size cards, etc., that help a every merchant. Write for your copy TODAY.

STEWART HANDY WORKER

6 Tools In One



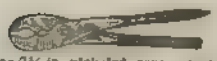
2H7817. Comprises Drill press, vise, pipe vise, anvil, metal cutter, 3 speed [illegible] grinding pedal. For [illegible] stationary wheels — rapid [illegible] Pipe wheels [illegible] [illegible] [illegible]

PLIERS

POPULAR SELLERS

Good sellers that are in everyday demand. Their popularity makes it necessary that they be given a place in every hardware stock. Note especially the well known "Pexto" line of high grade pliers. To receive full value for your money order [illegible] Do not skip any of the good numbers represented in this showing. ORDER NOW

HANDY PLIERS



Gas—7½ in. nickeled, coarse rivet.
2H461 2 doz lots . Doz $1.35
Gro. lots, $15.50

Slip Joint—6 in., thin model pointed nose, white nickeled finish, opens to 2¼ in.
2H8300—1 doz. in box. . Doz. $1.75

Slip Joint—6 in. polished bright finish handles, polished jaws, opens to 3½ in.
2H478—1 doz. in box. Doz. $1.35

American Made—Schollhorn "Lodi" 16 gauge, polished tool steel milled jaw
2H476—(Mfrs. 244), 6 in.
2 doz. lots. Doz $2.10
(Total $4.20)

Flat Nose—Schollhorn "Lodi" (Mfrs. 239) Bright steel 2 wire cutters.
2H477—5 in. 2 doz. lots. Doz. $2.25
(Total $4.50)

"Craftsman" Steel Slip Joint—6 in. made from special alloy steel thoroughly tempered, nickeled finish
H8286—1 doz. in pkg. Doz. ★2.45
Gro. $25.20

Household Pliers—Forged from highest grade crucible steel, hardened and tempered, head and jaws polished, rest of tool natural black finish, 3 cutting blades, burner (pillar, milled, knurled handles. 1 doz. lots.

H 51	6 in	Doz $10.25
2H452	7 "	" 12.00
2H6001	8 "	" 13.50

2H8672—6 in. forged from highest grade crucible steel polished nickel plated milled jaws, wire shear, metal-to-metal contact of jaw knurled bolts. Each in box [illegible] doz in carton . . Doz $6.65

"PEXTO" PLIER ASSORTMENT

2H1705—One each of the 21 standard Pexto pliers A to U from the highest grade crucible steel hardened, tempered and full knurled steel. Assortment comprises:

6 and 7 in. box joint side cutting
6 and 8 in. lap joint side cutting
6 and 8 in. Klein pattern
6 and 8 in. slip joint combination
8 and 9 in. button pattern
6 in. end cutting nipper
7 in. combination
Assorted screwdriver
Assorted metal lithoed display boxes

ASST of 12, $16.00

POPULAR SELLING PINCERS

Staple—6½ in., cast converted steel milled edge jaws. Two popular sizes.
H 441—(Polished jaws 2 doz. lots
Tota $ 50) Doz $1.25
2H447 Polished 2 doz. lots
Tota $ 90) Doz $1.45

Carpenters'. Forged tool steel bevel edge jaws polished claw and screw driver handles balance dull blue
H [illegible] doz in box
[illegible] Doz. $5.25
2H507 " 7.75
2H [illegible] " 8.10

PECK, STOW & WILCOX PLIERS

"Button"—(Mfrs. 88) 8 in. steel full opening with quality work nose of pliers can be used for pulling or straightening wire, full polished head blued handles. 1 doz lots

2H476	6 in.	Doz $7.15
2H478	8 "	Temp Out
2H6881	10 in	Temp Out

"Button"—Asstd. 8 and 9 in., button pattern, drop forged from crucible tool steel, hardened and tempered, sides of jaw polished, rest of tool natural black finish
2H7577 Asstd. ½ doz in box.
Doz. $7.25

Combination—(Mfrs. 5) combination or slip joint forged from crucible steel, nose of jaw wire cut, knurled handles, nose polished rest of tool gun-barrel finish. 1 doz lots

2H627	7 in	Doz. $7.50
2H628	8 "	8.75

Electricians'—(Mfrs. 30) forged from highest grade crucible steel, wire cutting edge, polished head and jaws, knurled handles, gun-barrel finish, each in box 1 doz lots.

2H488	6 in	Doz. $22.50
2H489	8 "	" 29.75

Electricians' Side Cutting—(Mfrs. 24) Master Works. Forged from crucible steel, polished jaws, gun barrel finish handles. 1 doz lots

2H821	6 in	Doz $12.75
2H820	7 "	" 14.50
2H822	8 "	" 16.35

"Millners"—(Mfrs. 99), 5 in. long forged steel lap joint extended side cutting edges, inside of jaws diagonally milled, round nose, polished head and jaws, gun-barrel finish handles, each in box

2H486—1 doz. lots. . . Doz. $12.85

"Button"—(Mfrs. 500) Klein" Pattern forged high side cut the full hardened tempered lap joint, have broad open grip large enough for fishing, galvanized wire, hard polished hdls. each in box ½ doz. in carton.

2H6882	6 in	Doz. $16.25
2H6883	8 "	Temp. Out

RULES

SQUARES & LEVELS

Strictly dependable accurately made rules, levels, squares, etc., needed in the tool kit of every tradesman. Many well known "Stanley" items are included—the complete showing is composed of values that should receive your undivided attention. When in the market for the goods use this page as your buying guide.

AMERICAN MADE FOLDING RULES

Yellow—Very plain markings, guaranteed accurate, riveted joints, brass tipped in 16ths
2H7218—1 doz. in box Doz. $1.20
Gro $13.75

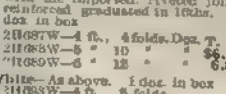
Yellow—Strictly first quality, guaranteed accurate, do not confuse with the imported, riveted joints reinforced graduated in 16ths, ½ doz in box

2H687W	4 ft.,	4 folds.	Doz. T. O
2H688W	5 "	10 "	" $6.25
2H689W	6 "	12 "	" 6.85

White—As above. 1 doz. in box

2H693W	4 ft.	8 folds	
2H694W	5 "	10 folds.	Doz. $4.85
2H695W	6 "	12 folds.	Doz Temp. Out
			Doz. $7.75

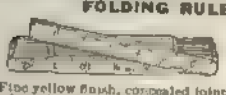
STANLEY BOXWOOD FOLDING RULES



Fine yellow finish, concealed joints, graduated in 8ths and 16ths,
1 doz.

H803	3 ft	Doz $3.95
H804	4 "	" 5.26

STANLEY "VICTOR" ZIG ZAG RULES

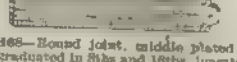


Yellow, selected seasoned wood and enamel finish, brass riveted [illegible] 1 doz lots

H804	4 "	Doz $3.60
H805	5 "	Temp Out
H806	6 "	Doz $6.25
		Doz. $7.50

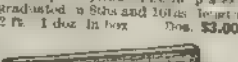
STANLEY JOINTED BOXWOOD RULES

Guaranteed accurate, superior in construction to the average boxwood rule. Not stamped with serial number

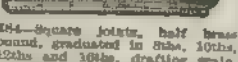


2H68—Round joint, middle plated graduated in 8ths and 16ths, length 3 ft. 1 doz. in box . . . Doz. $2.51

2H360—Square joints, middle plate graduated in 8ths and 16ths length 2 ft. 1 doz in box Doz. $3.00



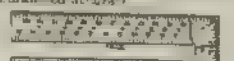
2H64—Square joints, half brass bound, graduated in 8ths, 10ths, 12ths and 16ths, drafting scale, length 3 ft. 1 doz. lots. Doz $6.75



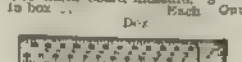
2H442—Square joints, full brass bound graduated in 8ths 10ths 12ths and 16ths drafting scale, length 3 ft. 1 doz. lots. Doz. $8.10

STANLEY STEEL SQUARES

Forged from high cut grade tool steel, polished hardened and tempered, etched rules, graduation guaranteed accurate

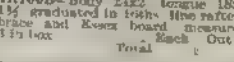


2H8360—Body 24x2, tongue 18x1½ also Essex board measure. 3 in box . . Each Out
Doz



2HK1008—Body 24x2 tongue 18x1½ graduated in 16ths, Hip rafter brace and Essex board measure. 3 in box Each Out
Total

CARPENTERS' SQUARES

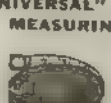


2H650—12x8 in. polished, graduated both sides in 8ths, welded corner ½ doz in box . . Doz. $13.50

1 FT. STEEL RULE

2H8770—1 in. wide, heavy steel, full nickel plated and polished selected steel blade, graduated both sides in 16ths. 1 doz. in box. Doz. 92c

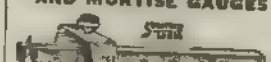
LUFKIN RULE CO'S "UNIVERSAL" MEASURING TAPE



2H1230—25 ft. Metric system tape graduated in cm. in hos. brass case, nickel enamel finish brass folding handles, ring and trimmers. 1 doz in box Doz. $6.60

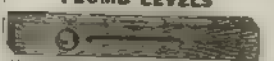
RE-ORDERS are what make our sales great. Our profit does not BEGIN until we have made regular customers. You too must [illegible] regular customers

STANLEY MARKING AND MORTISE GAUGES



2H42—Beechwood bar, graduated in 16ths, 6 in. from the point square head boxwood thumb screw, highly polished tempered steel marking points. 1 doz in box
Doz $2.31

PLUMB LEVELS



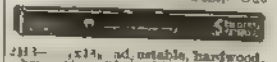
2H2200—2x3½, asstd. lengths 12 to 18 inches, plumb, cherry finish hardwood, nickel plated top plate, side handle grips. Asstd 1 doz in box
Temp Out

STANLEY PLUMB LEVELS Non-Adjustable

Carefully selected and thoroughly seasoned hardwood highly finished [illegible] nickel plated and blackened plumb and level glasses which concentrate light directly on the vial

2H104—1¼x2¾, Asstd. lengths 12 to 18 in. 1 doz. in box Doz. $8.65

2H0—Hardwood, 1¾x3¼, Asstd. lengths, 24 to 30 in. ½ doz. in box
Temp Out



2H[illegible] [illegible]x1¾, adjustable, hardwood, brass tips 24 to 90 in. long ½ doz in box.
Temp Out

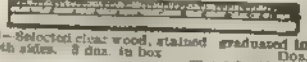
WING DIVIDER

2H902—8½ in., stamped steel, brass adjusting nut, polished. 1 doz. in box . . . . . Doz. $3.85

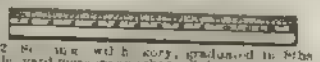
"PEXTO" WING DIVIDER

2H897—(Mfrs. 85), forged steel accurately ground points, brass [illegible] with clock spring, full polished 1 doz. in box. Doz $6.25

YARD STICKS



H701—Selected clear wood, stained graduated in 8ths both sides. 3 doz. in box
Tota $ 61) Doz. 87c

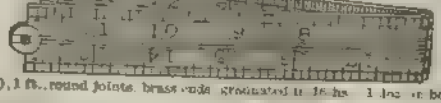


2H702—Natural wood, graduated in 8ths one side yard measure on other, 3 doz in box
Tota, $3.99 Doz $1.33

FIRST QUALITY JOINTED BOXWOOD RULES—Brass Ends Graduated in 16ths

Staple sellers you need. Do not overlook these extra good values when ordering

Active Sellers



Good Values

2H696—(Mfrs. 60), 1 ft., round joints, brass ends graduated in 16ths. 1 doz in box

2H697—(Mfrs. 68), 2 ft. round joints brass ends graduated in 16ths. 1 doz in box

Doz Temp. Out 2.40

DOUBLE BIT AXES

~~Stiletto~~

FULLY WARRANTED

Hand hammered, hand tempered and hand whetted. Bits are made of highest crucible forged steel, drawn thin and tempered hard to hold a fine cutting edge. Soft steel bodies. Perfect eye, which insures correct hang.

ROBERT MANNS

FULLY WARRANTED

Bits made of highest grade crucible steel drawn thin, tempered hard to hold a fine cutting edge. Soft steel bodies. Perfect eye to insure correct hang. Natural black finish.

~~Stiletto~~

Rustless Black Finish. Deep Gold Etching

UNHANDLED

Nos.	Patterns	Weights carried, lbs.	Base weights, Per dozen
1000	California Reversible	3½, 4, 4½, 5	$50 00
1001	Swamping	3½, 4, 4½	50 00
1002	Puget Sound Falling	3½, 4, 4½	50 00
1003	Redwood or Humboldt	3½, 4, 4½	50 00
1004	Youngs	3½, 4, 4½	50 00
1005	Sniping	6	50.00

Illustrating the California Reversible Pattern

HANDLED WITH 36-INCH HANDLES

Nos.	Brand	Handle Shape	Base Per doz
California Reversible Pattern			
1000AA	~~Stiletto~~	Oval	$65.75
1000BB	~~Stiletto~~	Octagon	65.75
1000CC	Pacific	Oval	62.75
1000DD	Pacific	Octagon	62.75
Puget Sound Falling Pattern			
1002AA	~~Stiletto~~	Oval	$65 75
1002BB	~~Stiletto~~	Octagon	65 75
1002CC	Pacific	Oval	62 75
1002DD	Pacific	Octagon	62.75
Young's Pattern			
1004AA	~~Stiletto~~	Oval	$65 75
1004BB	~~Stiletto~~	Octagon	65 75
1004CC	Pacific	Oval	62.75
1004DD	Pacific	Octagon	62.75

Nos.	Brand	Handle Shape	Base Per doz
Swamping Pattern			
1001AA	~~Stiletto~~	Oval	$65 75
1001BB	~~Stiletto~~	Octagon	65 75
1001CC	Pacific	Oval	62 75
1001DD	Pacific	Octagon	62 75
Redwood or Humboldt Pattern			
1003AA	~~Stiletto~~	Oval	$65 75
1003BB	~~Stiletto~~	Octagon	65 75
1003CC	Pacific	Oval	62 75
1003DD	Pacific	Octagon	62 75
Sniping Pattern			
1005AA	~~Stiletto~~	Oval	$65 75
1005BB	~~Stiletto~~	Octagon	65 75
1005CC	Pacific	Oval	62 75
1005DD	Pacific	Octagon	62 75

ROBERT MANNS

UNHANDLED

Nos.	Patterns	Weights carried, lbs	Base weights Per dozen
2000	California Reversible	3, 4, 4½	$48 00
2001	Swamping	3, 4, 4½	48 00
2003	Redwood or Humboldt	3, 4, 4½	48 00

HANDLED WITH 36-INCH HANDLES

Nos.	Brand	Handle Shape	Base Per doz
California Reversible Pattern			
2000AA	~~Stiletto~~	Oval	$63 00
2000BB	~~Stiletto~~	Octagon	63 00
2000CC	Pacific	Oval	61.00
2000DD	Pacific	Octagon	61.00
Swamping Pattern			
2001AA	~~Stiletto~~	Oval	$63 00
2001BB	~~Stiletto~~	Octagon	63 00
2001CC	Pacific	Oval	61 00
2001DD	Pacific	Octagon	61.00

Nos.	Brand	Handle Shape	Base Per doz
Redwood or Humboldt Pattern			
2003AA	~~Stiletto~~	Oval	$63.00
2003BB	~~Stiletto~~	Octagon	63 00
2003CC	Pacific	Oval	61 00
2003DD	Pacific	Octagon	61 00

For complete classification of weights, see page 2. For weights of handled axes add 18 lbs per dozen. Handles securely wrapped in burlap. One dozen in a case

DOUBLE BIT AXE PATTERNS

California Reversible Pattern

Swamping Pattern

Puget Sound Falling Pattern

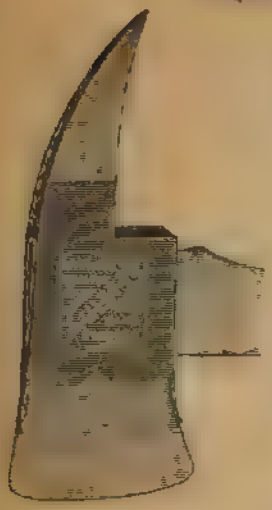
Redwood or Humboldt Pattern

Youngs Pattern

Sniping Pattern

AXES

SHURITE FIREMANS



Soft steel body. Highest grade polpick. Extra tempered body. Handled with 36-inch —SHURITE— grade handle. Body of axe and handle painted red.

No. S100—Assorted 4½ to 5½ lbs.

Dimensions of a 5-lb axe

Length of head, inch	11
Length of point, inch	4
Width of cut, inch	4¾
Per dozen	$50.00

One-half dozen in a crate.

BROAD

BAKER PATTERN

Soft steel body, hardened poll. Highest grade crucible steel laid bit. Gun metal finish, polished head and bit. Ground sharp, ready for use.

Wght each, lbs	6	6½	7	7½	8	8½	9
Width of cut, in	10½	11	11½	12	12½	13	14
Wt per doz, lbs	81	82	90	90	102	114	125
Per dozen	$100 00	105 00	106 00	110 00	112 00	114 00	120 00

One-half dozen in a case.

WOODS ICE CHICAGO PATTERN

Cast steel polished bit. Body and pick painted red Handled with 28-inch hickory handles.

No.	605
Blade, inch	8½x2½
Weight per dozen, lbs	48
Per dozen	$65 00

PHILADELPHIA PATTERN

Cast steel polished bit. Body and pick painted red. Handled with 28-inch hickory handles

No.	611
Blade, inch	7½x2⅞
Weight per dozen, lbs	48
Per dozen	$65.00

Above, one dozen in a crate.

ADZES

SHURITE SHIP CARPENTERS

Forged crucible steel. By a special continuous process blades are reinforced under the eye where strain is the greatest. Bits hand hammered and ground sharp. Gun metal finish. Polished head and bit.

PLAIN BIT

No. S780—		
Width of cut, inch	4	4½
Length, inch	11¼	11¼
Weight per dozen, lbs	38	40
Per dozen	$60 00	60.00

LIPPED BIT

No. S781—		
Width of cut, inch	5	5½
Length over all, inch	11	11½
Weight per dozen, lbs	47	49
Per dozen	$90 00	90 00

Loose.

SHURITE HOUSE CARPENTERS

Gun metal finish. Polished bit and head.

HALF HEAD

No. S740—	
Width of cut, inch	4½
Length, inch	9¼
Weight per dozen, lbs	53
Per dozen	$60 00

FULL HEAD

Has full head. Otherwise same as No. S740, illustrated above.

No. S750—		
Width cut, inch	4	4½
Length, inch	9¼	9¼
Weight per dozen, lbs	51	53
Per dozen	$60 00	60 00

Loose

SHURITE RAILROAD

All gun metal finish

FULL HEAD

No. S770—	
Width of cut, inch	5
Length, inch	9⅜
Weight per dozen, lbs	60
Per dozen	$65.00

All above, one dozen in a box.

STERNO STOVES

Nos. 4000-6050

Nos. 4001-4010

No. 4000—A solid brass, globular pint size boiler, heavily nickeled, with cover, same material. Fitted with non-heating handle and knob. Includes a fine nickel serving tray.

Weight per dozen, lbs.. 17
Per dozen $24.00

No. 6050—Made of pure aluminum, highly polished, equipped with non heating detachable handle and knob. Complete with collapsible stand, serving tray and can of Sterno Canned Heat

Weight per dozen, about, lbs..... 15
Per dozen $27.00

A pint size boiler. The cover is fitted with a detachable non-heating, ebonized wood knob. Collapsible stand which packs inside of boiler with heat when traveling.

No. 4001—With heavily nickeled boiler. Weight per dozen, 12 lbs ..... Per dozen $9.00

No. 4010—With polished aluminum boiler. Weight per dozen, 12 lbs..... Per dozen $18.00

STERNO ALUMINUM SAUCE PANS

No. 6056—Aluminum one-quart sauce pan with folding non-heatable handle. Is for use with any Sterno stand or stove.

Weight per dozen, about, lbs..... 6
Per dozen $12.00

STERNO ALUMINUM FRY PANS

No. 6055—Aluminum seven-inch fry pan, with collapsible non-heating handle. Is for use with any Sterno Stand or Stove.

Weight per dozen, about, lbs..... 6
Per dozen $15.00

STERNO COOKING SET

No. 6052—Aluminum cooking set, consists of two-burner kitchenette, one No. 6056 sauce pan, one No. 6055 fry pan and two cans of Sterno heat.

Weight each, about, lbs..... 1½
Per dozen $57.00

STERNO COOKING STAND

A regular stove for unlimited uses. Made to accommodate any shape or style cooking outfit. A special triangular attachment (not shown) enables this stove to hold smallest and largest vessels. Stand and container nickel plated.

No. 4032
Weight per dozen, lbs..... 8
Per dozen $6.20

STERNO CANNED HEAT

Regular size. Used with all stoves.

No. 4006
Weight, lbs 3¾
Per dozen $1.80

One dozen in a counter display box.

STERNO ASSORTMENT NO. 750

An assortment made up of
12 No. 6050—Aluminum stove complete with heat.
12 No. 4006—Canned heat. Free.

One assortment in a carton. Complete with large quantity of window display cards and advertising matter.

No. 750
Assortment $27.00

STERNO ASSORTMENT NO. 1225

A very attractive Sterno assortment, consisting of
12 No. 6050—Stoves complete with heat
12 No. 5001—Stoves complete with heat
24 No. 4006—Canned heat. Free.

One assortment in a carton complete, with a large window display equipment.

No. 1225
Per assortment $39.00

CAMP STOVES

CUB

Designed for camping, prospectors, mining and logging camps. Pressed steel body. Nickel plated thumb turn latch. Damper and end draft.

CAST TOP

Body 26 gauge steel.

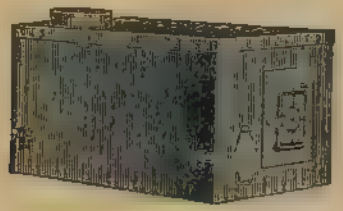
Nos.	2 C	4 C
Number holes	2	4
Height, inch	12	12
Size of top, inch	12½x20¾	16x22
Weight each, lbs.	22½	24½
Each	$9.50	10.50

STEEL TOP

Body 28 gauge steel.

Nos.	2 P	4 P	20	40
Number of holes	none	none	2	4
Height, inch	8	9¾	8	9¾
Size of top, inch	12½x20¼	15¾x22	12½x20¼	15¾x22
Weight each, lbs.	9¼	11⅜	9¼	11⅜
Each	$3.25	4 00	3.50	4.25

STEEL TOP



Even color steel. Can be set up in a few minutes. No bottom or oven. Top folds inside. Draft in front end above feed door.

Four-hole

No.	4HD
Height folded, inch	1½
Height set up, inch	12
Size of top, inch	15½x21
Weight each, lbs.	7
Each	$4.25

FOLDING WIRE GRIDS

For campers, tourists, boy scouts, automobilists. The ideal grid for use with wood or charcoal makes open-fire cooking easy.

SIMPLEX GRID

Made of best steel wire and reinforced with a flat steel bar, makes rigid grid and prevents it from sagging and the cross wires from warping. All joints electrically welded.

Aluminized Finish

Nos.	1	2
Size, inch	10x14	13x21½
Weight each, lbs.	2	3½
Per dozen	$10.00	12.00

DUPLEX GRID

Same as Simplex Grid except has adjustable charcoal grate for use below top. For small fire use grate on upper leg bars. For large fire use on lower leg bars. For wood remove charcoal grate.

Aluminized Finish

Nos.	3	4
Size, inch	10x14	13x21½
Weight each, lbs.	2¾	5
Per dozen	$15.00	18.00

IMPROVED FOLDING FRY PANS

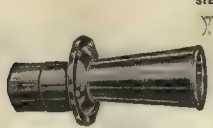
Steel fry pan with folding steel handle. Handle is permanent and cannot be removed or lost, and is so constructed that a wood extension can be put on if necessary.

Nos.	32	34	36
Size, inch	8⅞x1⅞	10x1¾	12x2
Weight per dozen, lbs.	10	15	20
Per dozen	$7.80	9.00	10.80

Kelley-How-Thomson Co. of Duluth.

AUTOMOBILE HORNS

STEWART WARNING SIGNAL



MOTOR DRIVEN

HAND-OPERATED

Underhood Type. The Bell is Superfluous for Underhood Mounting. This Type Takes Up Less Room and is More Easily Cleaned

The Stewart is superior to all others. First, because its motor is entirely enclosed in its own case. The shaft can never get out of alignment. It is the most economical in amount of current required to run it. Runs at highest speed with the very smallest amperage. Brushes of an especially large size. Rear bearing provided with ball thrust. Friction eliminated. Motor will not stick, due to superior bearings and ample lubrication. Large steel, felt-packed oil well keeps shaft always lubricated. No oil gets into rest of mechanism. Weight half as much as other motor-driven warning signals, sound considered.

The push button sticks up like a big mushroom so that you don't have to feel for it—you can't miss it, and the slightest touch with hand, arm or elbow brings forth a flood of sound impulses.

The tone of the Stewart Motor-Driven Warning Signal is Round, Full and Hearty, and can be Heard a Mile Down the Road.

	Each
No. 154A—Black Enamel Finish, Complete with 6 ft. Electric Cord, with Terminals and Push Button	$6.50

One in a Box; Weight about 6 Lbs.

One Complete Pressure of the Plunger Produces 192 Distinct Sound Impulses in the Large Diaphragm. The result is a Wonderfully Effective Warning Signal—a Full, Round, Hearty Tone, Deep and Penetrating, and surpassing anything that has ever been put on the market. Short or Pressure on Plunger with hand, arm, elbow or finger produces a warning blast that "makes them pay attention."

All Parts are Riveted or Bolted which insures long life, regardless of the amount of usage it receives. No soldered parts to work loose by vibration.

The Gears are not light, flimsy, stamped affairs, but are wide-faced cut gears, case hardened, each Gear is supported on a shaft, both ends of which run in hardened steel bushings. All this means greatest ease of operation.

Some horns are lubricated by simply squirting oil through a small hole. But in the Stewart Warning Signal there is an oil-soaked felt pad which rubs against the bearings and wheels continually.

The Stewart Warning Signal has a double supporting bracket which will not weaken under pressure.

The Stewart bracket is made with a swivel—one part fastens on the rail of the car and follows its shape, while the part holding the horn swivels on this rail bracket and can be so adjusted that the horn always points straight ahead, directly in front of the car.

	Each
No. 157B—Handsomely Finished in Black	$3.75

One in a Box; Weight Each about 4 Lbs.

AUTOMOBILE WHISTLES

Ford Type

Regular

"BUELL"

The Original Explosion Operated Whistle for Passenger Cars and Motor Trucks

A Scientifically Constructed Warning Device that combines the features of great simplicity and certainty of operation with a note of ultra warning value which appreciably lessens accidents.

Screwing in place of a priming cup, the "Buell" utilizes the high explosion-pressure of 200 or 300 pounds per square inch. On engines not equipped with priming cups the "Buell" is installed with our special spark plug.

The poppet valve is ground to a gas tight fit with its seat and tested twice for leakage so your engine will not lose compression through the whistle. In blowing the whistle the valve is only held open for an explosion or two and the power consumed is negligible. A slight touch on the readily accessible cord attached to the steering column sounds the unfailing "Buell."

	Each
Ford Type—Including Spark Plug	$5.50
Buell Chime	6.00
Buell Single Tone	4.25

SPECIAL SPARK PLUGS

The Standard "Splitdorf" Spark Plug, Indestructible and Easily Cleaned

	Each
No. B. S. P. ½—Size ½ in. for Ford Cars	$1.50
No. B. S. P. ⅝—Size ⅝ in. for Maxwell, Briscoe, etc.	1.50
No. B. S. P. ⅞—Size ⅞ Extension for Buick, Oakland, Chevrolet, etc.	1.50

Kelley-How-Thomson Co. of Duluth
AUTOMOBILE CLOCKS

Keyless Clocks are Handsome in Appearance and Especially Adapted to Withstand the Hard Usage and Vibration of Automobile Travel. The necessity of a key is entirely done away with. To wind clock, simply turn the bezel once a week to the right. By reason of its double case—the movement being enclosed in an inner case—clocks are rendered both Dust and Moisture Proof. Clocks are Fastened to Dash from Inside of the Case and Locked.

COWL FLUSH TYPE

Eight Day Movement; Rim Wind and Rim Set

Specially Adapted for the Cowl Dash. Made to be Countersunk, so as to Project Just Far Enough to be Wound

Each

No. 7—**Regular Dial** 3¾ in.; Base 3 in.; Cowl Ring 3¾ in.; Black and Nickel Finish $14.25

No. 9—**Special Dial,** Otherwise same as above 14.75

One in a Box; Weight about 8 Oz.

AEROPLANE CLOCK

Eight Day Movement; Rim Wind and Rim Set

Used by the United States Navy on account of its Unique Winding Device and Durability, being Especially Constructed to Withstand the Vibration of a Running Motor.

Each

No. U. S.—Diameter of Dial 2½ in.; Black Enamel, with Nickel Plated Trimmings $14.00

One in a Box; Weight about 8 Oz.

REAR WIND

Eight Day Movement; Attached Key and Hand Sets

Adapted for the Cowl Dash; Made Absolutely Flush

Each

No. RW—Nickel Plated; Diameter of Dial 2¼ in. $7.90

One in a Box; Weight 8 Oz.

Eight Day Movement; Attached Key and Hand Sets

REAR WIND

Designed to be Countersunk in the Dash and is the most popular low-priced Cowl Clock on the Market

Each

No. FB—Black, with Nickel; Diameter of Dial, 2½ in. $3.80

One in a Box; Weight 8 Oz.

DENVER

Eight Day Movement; Key Wind

Each

No. D—Diameter of Dial, 2¾ in.; Diameter of Base, 2½ in., Depth, 1¼ in. . $6.00

One in a Box; Weight 8 Oz.

ADJUSTABLE PLANES

Bottoms perfectly true and smooth. Full polished caps. Cutters are extra heavy, which prevents chattering when used on very hard wood or knots. Made of highest grade crucible steel, correctly tempered, full polished, sharpened and whetted on an oil stone by hand. Ready for use. Screw and lever adjustment. Brass screw.

SMOOTH WITHOUT HANDLE

Nos. S23 and S24

WOOD BOTTOM SMOOTH HANDLED

Nos. S35 and S36

JACK, FORE AND JOINTER

Nos. S26 to S33

Nos.	Unhandled S23	Unhandled S24	Handled S35	Handled S36	Jack S26	Jack S27	Fore S28	Fore S29	Jointer S31	Jointer S33
Length, inch	9	8	2	2⅜	2	2⅛	2⅜	2⅝	2	2⅝
Size of cutters, inch	1¾	2	9	10	15	15	18	20	24	28
Weight each, lbs.	3	3	3½	4½	4¾	5	6½	6¾	7½	8½
Each	$4 50	4 75	$5 00	6 50	5 00	6.00	6.50	7.00	7.25	8.00

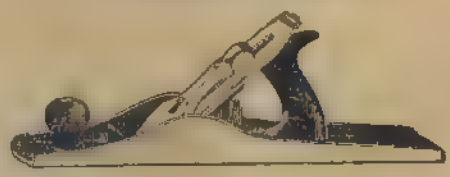
IRON

Black enameled cast iron frames. Finely varnished rosewood handles and knobs.

SMOOTH BOTTOM

Smooth

CORRUGATED BOTTOM



Fore, Jack and Jointer

Nos.	Smooth S2	Smooth S3	Smooth S4	Smooth S4½	Jack S5	Jack S5½	Fore S6	Jointer S7	Jointer S8
Size cutters, in	1⅝	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Length, inch	7	8	9	10	14	15	18	22	24
Wght each, lbs	3½	3¾	4½	4½	5	7	7½	9¼	
Each	$5.00	6 00	7.25	7 25	8.00	9.00	10.00	10.50	12 00

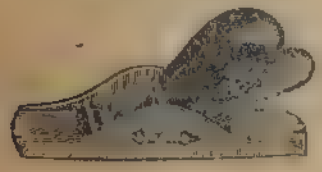
Nos.	Smooth S3C	Smooth S4C	Smooth S4½C	Jack S5C	Jack S5½C	Fore S6C	Jointer S7C	Jointer S8C
Size cutters, in	1¾	2	2⅜	2	2¼	2⅜	2⅜	2⅝
Length, inch	8	9	10	14	15	18	22	24
Wght each, lbs	3½	3¾	4¼	4½	5	7	7½	9¼
Each	$6 00	6.00	7.25	7.25	8.00	9.00	10 00	12.00

BLOCK PLANES

Japanned top. Polished face and sides. The throat can be quickly opened or closed for fine or coarse work by a movement of the cam lever at nose.

Nos.	Regular 9½	Regular 15	Adjustable 220
Cut, inch	1⅝	1¾	1⅞
Length, inch	6	7	7
Weight each, lbs	1⅝	1¾	1⅝
Each	$3 50	3 75	3 00

NOT ADJUSTABLE

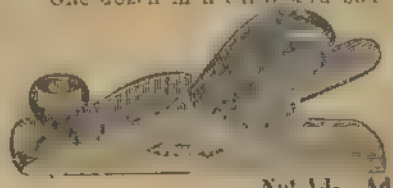


Nos.	S101	S102
Length, inch	3½	5½
Cut, inch	1	1¼
Weight each, lb	⅝	⅞
Each	$1.00	2.00

KNUCKLE JOINT

No.	S 18
Cut, inch	1¾
Length, inch	6¼
Weight each, lbs.	1⅝
Each	$3.60

One dozen in a cardboard box



Nos.	Not Adjustable 110	Adjustable 108
Length, inch	7½	5½
Cut, inch	1¾	1¼
Weight each, lbs.	1¼	1
Each	$2 35	2.10

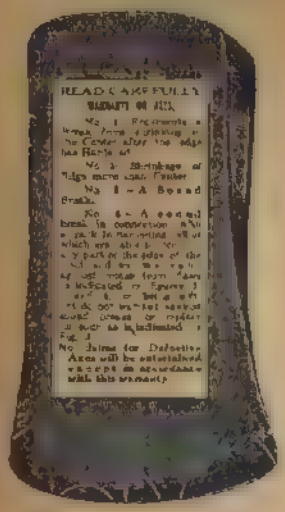
LOW ANGLE

Nos.	S 60	S 65
Cut, inch	1½	1½
Length, inch	6	7
Weight each, lbs.	1¼	1½
Each	$3 50	4.00

DOUBLE END NOT ADJUSTABLE

No.	S 130
Length, inch	8
Cut, inch	1¾
Weight each, lbs.	1¾
Each	$3 00

All above, one in a cardboard box, except No. S161, one-half dozen in a box.



WARRANTY ON AXES

The steel in all axes, in order to carry a good edge, must be of high temper; and for this reason a good axe is more likely to break than a poor one. Soft steel will first bend, and then break; so it is impossible for an axe that is too soft to hold a good cutting edge. Breaks from flaws are readily known by their angular form, not by the color, while sound breaks (which are no fault of the manufacturer), are always circular in form as shown in illustration.

Our warranty does not cover open or broken eyes which are clearly the result of axes being used as mauls instead of for chopping. Axes should not be ground on an emery wheel, because the overheating draws the temper from the steel.

No claim for defective axes will be entertained unless in accordance with this warranty.

Defective axes must be returned to us with freight charges prepaid.

WEIGHTS

Straight weight axes, 3 and 3½ lbs, and assorted weights, 3 to 3½ and 3 to 4 lbs, take base price. All other straight and assorted weights are subject to the advances listed in the complete classification of weights below. Weight of each axe is stamped on poll.

HANDLED AXES

All of our axes (excepting the Corona) are handled in our own handling department. For weights of handled axes add 16 lbs per dozen.

CLASSIFICATION OF WEIGHTS OF AXES

Add per dozen to base price on all single and double bit axes.

STRAIGHT WEIGHTS

Weights	Per doz
3 lbs.	Base
3½ lbs.	"
	Add to base
4 lbs.	.25
4½ lbs.	.50
5 lbs.	.75
5½ lbs.	1.00
6 lbs.	1.25
6½ lbs.	1.75
7 lbs.	2.25
7½ lbs.	2.75

ASSORTED WEIGHTS

Weights	Total Wght doz	
3 to 3½ lbs	42 lbs.	Base
3 to 4 lbs	42 lbs.	"
		Add to Base
3½ to 4 lbs	48 lbs.	.25
3½ to 4½ lbs	48 lbs.	.25
4 to 4½ lbs	54 lbs.	.50
4 to 5 lbs	54 lbs.	.50
4½ to 5 lbs	60 lbs.	.75
4½ to 5½ lbs	60 lbs.	.75
5 to 5½ lbs	66 lbs.	1.00
5 to 6 lbs	66 lbs.	1.00
5½ to 6½ lbs	72 lbs.	1.25
6 to 7 lbs	78 lbs.	1.75

DIMENSIONS OF A FOUR-POUND AXE

Brand	Pattern	Width Bit inch	Size Head inch	Length inch
~~Stelltto~~	California Ohio	4⅞	3¼x1	7⅞
"	Michigan	4⅞	3⅛x1	7⅞
"	California Reversible	5⅛	.....	10
"	Swamping	4½	.....	11
"	Puget Sound Falling	3⅝	.....	12¼
"	Redwood	4½	.....	11
"	Youngs	4⅝	.....	11½
Cub	Michigan	4⅞	3¼x1	7⅞
Hunts	California Ohio	4⅝	3¼x1	7⅞
"	Michigan	4⅞	3¼x1	7⅞
Corona	Michigan	4⅞	3¼x1	7⅞

Note—Owing to the fact that all our own brands of axes are hand made and hand ground, they may vary slightly from the above dimensions.

~~Stelltto~~ AXE RACKS

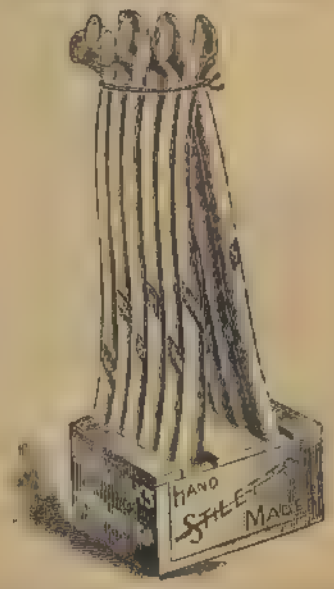
One ~~Stelltto~~ rack only is given free with a purchase of three dozen assorted axes of our brands.

Made of Oregon pine, stained light oak, velvet finish. Capacity, 72 handled or unhandled axes.

No.	8
Height, inch	32
Length, inch	27
Width, inch	14½
Weight each about, lbs.	35
Each	$6.75

One in a crate.

HANDLING OF AXES



All our axes one dozen in a case. Handles securely wrapped in burlap. Our axe handling department is under our own supervision. We employ workmen who know by years of experience the correct shaping and set of the handle. Every axe is handled by a fixed gauge, to insure its being perfect in this respect.

CUTLERY SHOW CASES

POCKET KNIFE

Oak finish. Entire platform covered with plush. Doors fitted with American mirrors.

Sliding drawers are partitioned so that stock of each knife may be placed directly below each sample.

No. 50—Width, 25 inches. Length, 39 inches. Height, 13 inches. Partitioned for knives, 50 patterns. Shipping weight, 90 lbs.

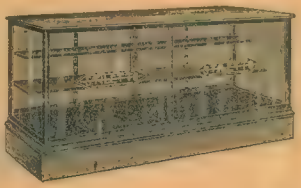
Each $35.00

FLOOR DISPLAY

Natural oak finish highly polished. One piece, ⅜-inch plate glass top. One piece selected double strength glass front, one piece glass ends, clear glass sliding doors on ball bearings. Case contains two quarter sawed oak finish shelves, supported on the latest improved nickel plated keyhole adjustable brackets.

No. 250—Length, 6 feet. Height, 42 inches. Width, 26 inches. Shipping weight, 285 lbs.

Each $150.00



CUTLERY DISPLAY BOXES

Illustrating Knife Display Box

Knife, razor and shear boxes are all made uniform height which enables a show case to be dressed neatly These boxes are particularly neat for displaying cutlery in floor show cases.

Knife Display Box—Made of heavy cardboard; covered with black leatherette paper. Removable cover with green plush covering. The stock number, cost and selling price are kept on underside of cover. Box will hold the stock of knives. Length, 4⅞ inches; height, 2⅝ inches; width, 2⅝ inches

Each $0.30

Razor and Scissor Display Box—Made similar to knife box. Height, 2⅝ inches. Width, 2⅝ inches. Length, 7½ inches. Sample is placed on top of box; stock carried inside. Box holds ½ dozen razors in their individual boxes or one-half dozen scissors and shears up to 6½ inches.

Each $0.50

Shear Display Box—Height, 2⅝ inches. Width, 2⅞ inches. Length, 9½ inches. Box will hold one-half dozen shears of any length up to 9 inches.

Each $0.50

Average weight, 4 ounces each

CUTLERY MARKING INK

Cutlery Ink For marking prices or numbers on knives, razors, shears, etc., or any polished or nickeled steel. Can be entirely removed with alcohol. Put up in 2-ounce bottles.

Per dozen $6.00

HAMMERS
UPHOLSTERERS

Highest grade crucible steel. Nickel plated. Adze eye. Carefully tempered claws and hardened face, with second growth hickory handles.

No.	645
Length of head, inch	6
Weight per dozen, lbs.	6½
Per dozen	$15.00

SAYRE

Forged steel head. Nickel plated. Hardened face. Polished hardwood handle.

No.	67
Length of head, inch	6½
Weight per dozen, lbs.	10½
Per dozen	$18.00

STANLEY

Malleable iron head, handle and claws. Hardened face. Riveted inlaid hardwood grip. Dull nickel finish.

No.	4
Length of head, inch	4
Weight per dozen, lbs.	5½
Per dozen	$7 00

BILL POSTERS

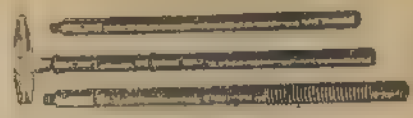
ROBERTSONS MAGNETIC

Forged steel. Plain eye. Horseshoe pattern. Nickel plated. Hickory handle.

No.	RT412
Length of head, inch	3½
Length over all, inch	12
Weight per dozen, lbs.	5
Per dozen	$15.00

Above, one dozen in a cardboard box.

ROBERTSONS MAGNETIC



Horseshoe pattern. Hardened face. Card-holding attachment on first section of handle. Two 18-inch sections in handle.

Nos.	502	802
Weight of head, lbs.	⅞	1½
Length of head, inch	4	4¼
Length of handle, inch	36	36
Weight per dozen, lbs.	14	16
Per dozen	$50.00	55.00

Above two in cardboard box.

TACK CLAWS

Polished forged steel claw and flat shank. Black finish hardwood handle. Stamped ferrule.

No.	46
Length over all inch	6
Weight per dozen, lbs.	1¾
Per dozen	$8.50

One dozen in a cardboard box.

Polished. Stamped steel claw. Nickel plated. Plain hardwood handle. Brass ferrule.

No.	14
Length over all, inch	6½
Weight per dozen, lbs.	1¾
Per dozen	$1.50

One dozen in a cardboard box.

Cast steel handle. Stamped ferrule.

No.	50
Length over all, inch	6½
Weight per dozen, lbs.	2
Per dozen	$1 25

One dozen in cardboard box.

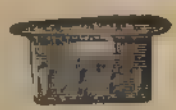
TOOL WEDGES
SAWYERS PERFECTION

Malleable iron. Natural finish. No. 1741 can be more firmly secured by using 1-inch by No. 14 flat head bright screws. Screws are not furnished.

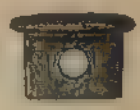
AXE

No.	1741
Top length, inch	2¼
Top width, inch	3¼
Depth, inch	1
Weight per dozen, lbs.	1½
Per dozen	$1.00

HAMMER OR HATCHET



No.	1742
Top length, inch	2¼
Top width, inch	⅞
Depth, inch	1¼
Wt per doz, lbs.	1½
Per dozen	$0 90



No.	1747
Top length, inch	1¼
Top width, inch	⅞
Depth, inch	¾
Weight per dozen, lbs.	½
Per dozen	$0.75

Three dozen in cardboard box

SYRACUSE HANDLE

Double pointed. Can never come out or become loose.

No.	8
Length, inch	⅞
Width, inch	⅝
Weight per gross, lbs.	1
Per gross	$4.00

One gross in cardboard box.

HAMMERS AND SLEDGES

HAND DRILLING OR SINGLE JACK

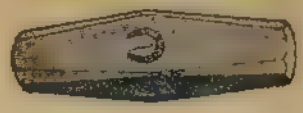
CALIFORNIA PATTERN

Solid forged steel. Polished face.

No. 60—Double faced. Unhandled.

Weight each, lbs	3	3½	4	4½
Length, inch	5	5¼	6	6¼
Per pound	$0 50	.50	.50	.50

NEVADA PATTERN



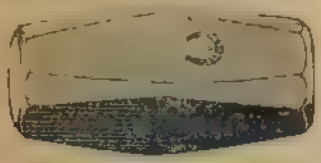
Solid forged steel. Polished face.

No. 70—Double faced. Unhandled.

Weight each, lbs	3	3½	4	4½
Length, inch	5⅛	5⅜	6	6⅛
Per pound	$0.40	.40	.40	.40

STRIKING OR DOUBLE JACK

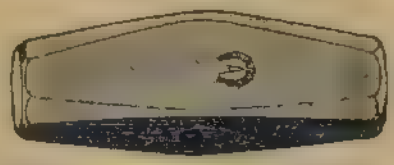
OREGON OR SHORT PATTERN



No. 80 Double faced. Unhandled.

Weight each, lbs	5	6	7	8	9
Length, inch	5	5⅜	6	6¼	6¼
Per pound	$0.30	.30	.30	.30	.30
Weight each, lbs	10	12	14	16	18	20
Length, inch	6¼	7	7½	8	8½	9
Per pound	$0 30	.30	.30	.30	.30	.30

NEVADA OR LONG PATTERN



No. 90—Double faced. Unhandled.

Weight each, lbs	5	6	7	8	9
Length, inch	6½	6¾	7	7½	7¾
Per pound	$0.30	.30	.30	.30	.30
Weight each, lbs	10	12	14	16	18	20
Length, inch	7¾	8	8¼	8½	9	9
Per pound	$0.30	.30	.30	.30	.30	.30

BLACKSMITHS

CROSS PEIN

Solid forged steel. Hardened and polished face

No. 40

Weight each, lbs	6	8	10	12	14	16
Length, inch	7	7	7¼	7½	8	8½
Per pound	$0 30	30	.30	.30	.30	.30

STRAIGHT PEIN

Solid forged steel. Hardened and polished face.

No. 50—

Weight each, lbs	6	8	10	12	14	16
Length, inch	7	7	7¼	7½	8	8½
Per pound	$0 30	.30	.30	.30	.30	.30

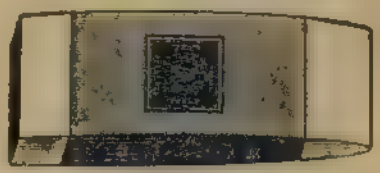
NAPPING OR ROCK BREAKING

Solid forged steel. Oil finish, with hardened and polished face.

No. 150—Double face.

Weight each, lbs	3	4	5	6
Length, inch	6	6¼	7½	7¼
Per pound	$0 40	.40	.40	.30
Weight each, lbs	8	10	12	14
Length, inch	7⅛	8	8½	8½
Per pound	$0 30	.30	.30	.30

SPAULING OR STONE



Solid forged steel. Polished face and bit.

No. 130—Single face.

Weight each, lbs	3	4	
Length, inch	6	6½	
Per pound	$0.40	.40	

Solid forged steel. Natural finish. Polished face

No. 140—

Weight each, lbs	5	6	8	
Length, inch	7	7½	8	
Per pound	$0.40	.40	.40	
Weight each, lbs	10	12	14	16
Length, inch	8½	9	9⅝	9⅝
Per pound	$0.40	.40	.40	.40

Note—For handling all hammers or sledges, add price of handles and 75 cents per dozen. See page 222 for handles.
All above, loose.

Jumbo Non-Freezing Hog Waterer

$22.40 55 Gallon Capacity **$29.35** 90 Gallon Capacity

WATER CANNOT FREEZE
WATER IS FED TO DRINKING PAN BY VACUUM PROCESS.
CANNOT OVERFLOW
TROUGH IS ALWAYS FULL

Illustration Shows Waterer Complete as Furnished Has Two Drinking Places

Jumbo Non-Freezing Hog Waterers are made of heavy galvanized iron. They are strong and substantial and will last for years. One of the hardest chores on the farm is to properly water the hogs, especially in cold, zero weather when the water freezes in the trough in half an hour. It is a hard job to chop ice from the trough two or three times a day to give the hogs fresh water, and even then they do not have water as often as they should. **With a Jumbo Waterer your hogs can have a constant supply of good, clean water** with the chill off just as they want it, night and day. Hogs will drink frequently both night and day if the water is convenient and at the right temperature. **With the Jumbo Non-Freezing Hog Waterer** the water is automatically fed to the drinking pan by the vacuum system. The trough is always full but never over-flows. No mud hole or disease breeding place around the drinking troughs. The drinking trough is thoroughly protected so horses or cattle cannot step into it or damage it, and hogs cannot get into it with their feet to foul or waste the water, but they can always have all they want to drink. **In cold weather the water that is exposed to the air will freeze first.** There is no advantage in keeping water in a tank warm if it freezes in the trough where the hogs drink. You will note by the illustration that the lamps set directly underneath the drinking pan so the water cannot freeze and the heat then passes up around the tank and keeps the water at just the right temperature. **The Jumbo Waterers have been used and worked perfectly with the thermometer at 35 degrees below zero.** The heat being properly applied as it is, and confined inside the casing, the lamp can be turned low so it uses only a small amount of coal oil. It costs only 2 or 3 cents a day to keep the water warm night and day in the coldest weather. An approach is built to the drinking trough so hogs of any size can drink. **A hog will live and put on weight for 4 or 5 days with practically no food if he is given all the water he wants, but he will begin to lose weight in two days if he has no water, even though he has all the corn he wants.** Nearly two-thirds of a hog's body is water. Give them all they will drink. **Water is cheap—corn costs money.** Plenty of pure water is a big help toward preventing disease. Our 55 Gallon Jumbo Hog Waterer is 30 inches in diameter and 48 inches high. Our 90 gallon is 30 inches in diameter and 58 inches high. Shipped direct to you from Iowa factory.

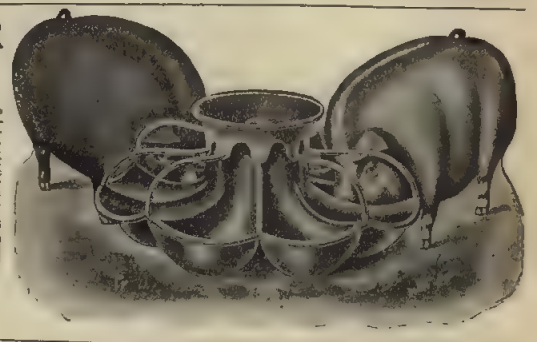
Illustration Shows Interior View of Waterer. Two Lamps Keeps Water from Freezing in Any Weather.

B-2386	Jumbo Hog Waterer, 55 Gallons, Single Drinking Fountain; Weight 90 Pounds		$22.40
B-2386	Jumbo Hog Waterer, 55 Gallons, Double Drinking Fountain, Weight 95 Pounds		25.75
B-2387	Jumbo Hog Waterer, 90 Gallons, Single Drinking Fountain; Weight 140 Pounds		29.35
B-2387S	Jumbo Hog Waterer, 90 Gallons, Double Drinking Fountain; Weight 145 Pounds		33.15

SUPREME CIRCULAR $9.25 HOG TROUGH

Our Superior Circular Hog Trough is made of the best smooth cast iron, has eight partitioned compartments with steel division bars cast in, making it impossible for pigs to get into the trough or root out the feed. Feed is poured in at the funnel shaped top and is distributed equally to all compartments, which hold a half gallon each. Trough is heavy enough so that it cannot upset. Is easily cleaned and will last a lifetime. Feeder is 20 inches in diameter, 18½ inches high. Every person raising hogs should have one or more of these troughs. Weight 140 pounds. Shipped from factory at Kansas City.

B-2388—Superior Circular Hog Trough..... **$9.25**



MAJESTIC CAST IRON HOG TROUGH

Shipped from Factory

Majestic Hog Troughs are made in several sizes and are constructed entirely of cast iron, having no bolts, holes, seams or other parts to become loose and leak. While the initial cost is slightly higher than a galvanized or wooden trough, taking into consideration that a cast iron trough will last a life time, it is the most economical one to buy. Bars are cast across the top, which prevent the hogs from lying in the trough or rooting out the feed. All of our troughs are provided with lugs for bolting to a platform or floor. The Majestic Hog Trough can be kept clean and sanitary. All troughs are thoroughly coated with a water proof paint. Shipped from factory in central Illinois or from Kansas City.

No.	Length	Width	Depth	Height	Weight	Price
B-2389	2 ft.	12 in.	4½ in.	5½ in.	25 lbs.	2.45
B-2390	3 ft.	12 in.	4¼ in.	5⅛ in.	45 lbs.	

No.	Length	Width		Height	Weight	Price
B-2391	4 ft.	12 in.	4½ in.	5½ in.	75 lbs.	$5.55
B-2392	6 ft.	12 in.	4½ in.	5⅛ in.	90 lbs.	7.45

SUPREME MANURE SPREADER

HAS BEEN SOLD BY DEALERS FOR OVER 22 YEARS
"YOU KNOW THIS SPREADER"

CO-OPERATORS PRICE

$145.00

Steel Wheels----Steel Cylinder----Steel Fifth Wheel----Heavy Steel Axles.

WE SAVE YOU **$40.00** ON THIS SPREADER

The Supreme Manure Spreader has been made for over 22 years and sold throughout the United States by implement dealers under a very popular and well known name. Thousands of these manure spreaders are in use and giving complete satisfaction in every way

The Supreme Manure Spreaders are the lightest and easiest running spreaders built. They are thoroughly reliable and dependable machines and with proper care will practically last a lifetime. We positively guarantee each and every machine and will gladly replace any part or parts which prove defective on account of poor material or workmanship.

The Supreme Manure Spreader is shipped 'Direct From Factory" to you. No Jobber, Wholesaler, Manufacturer's Agent, Retail Dealer, State Agent, County Agent or Local Agent gets one cent profit on the ? ? ? Manure Spreader. The Holmes Co-Operative plan of furnishing its members with Manure Spreaders, as well as other merchandise, Direct From the Factory, eliminates all the profit made by the "Middleman."

Construction—The materials used in this high-grade Manure Spreader are of the very best and every care is used in order that years of constant usage will show the least amount of wear on the working parts. The bottom is of the endless apron style and is carried on rollers, there being two rollers under each slat. The apron is carried over large rollers on the feed shafts at the rear end, and on a special shaft at the front end of the machine, there is also an adjustment at the front of each sill, which takes up any slack in the apron

The Box measures 44 inches from the ground to the top of the box, thus reducing the work of loading to the lowest minimum. The top is bound with iron and all parts are exceedingly strong and well put together. The rear end is 2 inches wider than the front end, depth at front end, 17 inches, depth at rear end, 21 inches. This arrangement causes the load to be easier pulled and the greatest amount of efficiency is insured.

Axles—Are made of cold rolled steel; front axles are 1¾ inches; rear axles are 2 inches. Front axle and bolster are placed far enough to the rear under the body to divide the load, in order that the rear wheels will not be overtaxed Front trucks permit of turning short, as they turn under the machine **Diameter of the fifth wheel 15 inches.** Can be subjected to the roughest use and heaviest load without fear of breaking, as it is made of steel. The front end of the center track rail is supported by heavy angle steel, which is bolted to the side sills by means of steel brackets and no delay is experienced in getting the movement of the bottom started, for the reason that at all times three sets of lugs are engaged on the sprockets. The least draft and the greatest amount of power is given by the chain drive, which is raised and lowered on the solid arm, and when it is lowered on the drive sprocket it locks in position and any amount of pressure will not cause it to slip or jump.

The Teeth of the rake are made of spring steel, 1¾ inches wide, 16½ inches long, and their sharp points assist the cylinder in tearing up the manure, and a spring of 16 pounds tension is provided for each tooth, which works independent of the others. This permits of any hard substance being let out by each rake tooth, without raising any of the other teeth, thus not permitting a large quantity of manure to be thrown out in bulk

Steel Cylinder is of steel construction, which will not warp or break, as is often the case with wood bars. The cylinder bars are nine in number, size 1¼x 7-16 inch steel, firmly bolted to large cast cylinder head. Teeth are made of thirty-point carbon steel, 4 inches long outside the bar, and 7-16 inch square, with sharp chisel point. The cylinder end of the tooth is threaded and after being firmly bolted, is tapped to prevent the nut from working loose.

Wheels—Are made of heavy steel. Rear wheels are 44 inches and front wheels 24 inches in diameter. Have 4-inch flanged tires with cleats riveted on.

The short stub tongue is in the center, and a pull with three horses comes direct on the short stub, which permits of an ordinary three-horse evener and does not require an equalizer. If two horses are used the stub tongue is removed, the long tongue set in its place, making the pull directly in the center of the two-horse evener. **A two-horse evener** is always furnished unless you state in your order that you desire a three-horse evener.

Capacity Box holds 65 bushels but if well loaded will hold 70 bushels. Width box 42 inches, depth, front 17 inches, rear 21 inches; length 9 feet 5 inches, outside measurements.

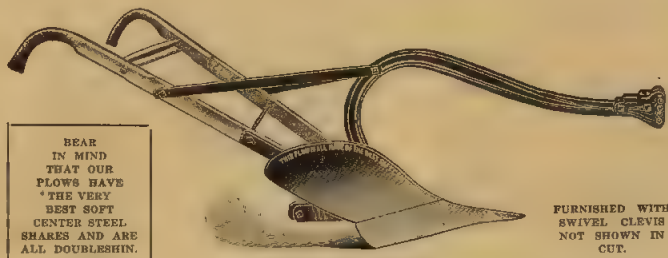
The Supreme Manure Spreader is painted two coats, nicely varnished and striped and shipped direct to you from Illinois factory. Shipping weight about 1695 pounds.

B2805 Supreme Manure Spreader Complete - - - - $145.00

Royal Banner Walking Plows

WE GUARANTEE THAT THERE IS NOT A BETTER PLOW MADE REGARDLESS OF PRICE

BEAR IN MIND THAT OUR PLOWS HAVE THE VERY BEST SOFT CENTER STEEL SHARES AND ARE ALL DOUBLESHIN.



FURNISHED WITH SWIVEL CLEVIS NOT SHOWN IN CUT.

MADE IN STEEL BEAM ONLY

ROYAL BANNER PLOWS Have Double Shins and Double Mould Boards

Royal Banner Walking Plows are made in one of the oldest and largest plow factories in the U. S. This firm has been making plows for years and have the reputation of making the best plows on the market. Royal Banner Plows are extra large, extra strong, and have our celebrated almost "everlasting" double mold board, made of the very finest of soft center steel, with extra wide soft center steel shares with double points of soft center steel. (See explanation following). High soft center steel landsides and entire plow finely polished in oil, tempered as hard as glass and absolutely guaranteed to scour in any soil where any plow on earth will scour, and is just the identical shape that you have been looking for, insuring the lightest possible draft and easy running, it is hardly necessary to hold the handles after it is properly set and hitched to. The Royal Banner shares are one-half inch wider than generally found on any other plow. They are adapted to old ground, turf or stubble. The shape of the moldboard is perfect, turns the soil in the best manner, pulverizes it well and covers all trash. The scouring qualities are excellent, and we guarantee them to scour in any soil where any plow on earth will work. Remember, that if any plow we send you is not perfectly satisfactory, and does not do the work as well as any plow made, it can be returned at our expense and money will be promptly refunded. These plows are made especially for the Northwest and are well adapted to the different soils in this locality.

ROYAL BANNER PLOWS HAVE DOUBLE SOFT CENTER SHARES WITH REINFORCED POINTS.

READ HOW OUR SOFT CENTER STEEL SHARES ARE MADE AND WHY THEY ARE BETTER THAN OTHERS

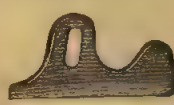
Royal Banner Shares are Made of the Very Best Soft Center Steel; Have Double Points, Are Highly Tempered and Polished in Oil. This is Why They are Better than Others. Read Description of How They Are Made Carefully.

Fig 1 shows the steel share as it comes from the mill. Notice the long point. In welding the landside, the point is turned right back under the share at the **Fig. 4**, giving you the same hard soft center steel in the bottom of the share that you have in the top. See **Fig. 2. Fig. 3** shows the share shape as purchased by other manufacturers.

You will notice it is cut off at **Fig. 4** as shown in Cut 1 and when they weld their landside to share they use a little piece of crucible scrap steel and weld on the bottom. Now the point of the share takes the blunt of the work; if it is only made of crucible steel, then why not buy a crucible steel share and save 50 cents? You will notice the method used in making our share gives you the same hard soft center steel at the bottom as it does at the top, absolutely and unquestionably the best share that money can produce.

ROYAL BANNER PLOWS Have Adjustable Landside Heels

Illustration at right shows the Adjustable Landside Heel used on all our Royal Banner Double Board and Double Shin Plows. The advantage of this feature is the fact that it saves the heel of your landside and is adjustable so that as your plow wears, or as it gets dull and needs more suck you can easily give it the desired inclination by simply adjusting this little casting, a feature that we believe you will readily appreciate.



THIS CUT SHOWS THE ADJUSTABLE LANDSIDE HEEL USED ON OUR ROYAL BANNER PLOWS.

ROYAL BANNER PLOWS HAVE DOUBLE MOLD BOARD

The Double Mold Board furnished on our plows is a practicable and valuable feature as we have a double thickness of hard steel rolled into this mould board, not only on the shin, but throughout the entire surface of the mould board. You will therefore admit that if we double the amount of the steel in the face of the plow, we double the value of the entire plow, as that is where it first wears out; hence we claim our double board plow is not only what we claim but is worth twice as much as the single board plow or double shin plow made by welding patches on them.

Prices—Old Ground Plows Shipped Direct to You From Illinois Factory.	Price	Extra Shares Extra Soft Center Crucible Steel	Extra Shares Extra Steel
B-2476—12-inch Old Ground Plow, Steel Beam	$15.95	$3.00	5
B-2477—14-inch Old Ground Plow, Steel Beam	17.95	3.50	
B-2478—16-inch Old Ground Plow, Steel Beam	19.45	4.00	

PRICES TURF AND STUBBLE PLOWS Shipped Direct to You From Illinois Factory.	Price	Extra Shares Extra Soft Center Crucible Steel	Extra Shares Extra Steel
B-2479—12-inch Turf and Stubble Plow, Steel Beam	$15.95	$3.00	
B-2480—14-inch Turf and Stubble Plow, Steel Beam	17.95	3.50	
B-2481—16-inch Turf and Stubble Plow, Steel Beam	19.45	4.00	
Price List of Extras for Royal Banner Plows:			
B-2482—Rolling Coulter, complete with Clamp			$4.00
B-2483—Fin Cutter			1.20
B-2484—Gauge Wheel			2.40
B-2485—Steel Jointer			

All Plows Sent Right-Hand unless Left-Hand is Distinctly Mentioned.

In Offering These Plows to Our Customers, We Wish to Emphasize the Fact that No Effort or Expense Has Been Spared in Order to Make Our Plows Strictly High Grade in Every Respect, and the Very Best Plows to Be Obtained of Any House in the United States.

Our Co-Operative Plan of Shipping Plows and all Implements "Direct from Factory to You" Saves you from 10 to 40 Per Cent.

SUPREME POWER CONCRETE MIXER

$34.95 COMPLETE

CAPACITY 25 YARDS EVERY 10 HOURS.

The Supreme Continuous Concrete Mixer was designed especially for the small contractor or farmer who does not require a capacity to exceed 25 yards a day. It is constructed entirely of steel and iron. The hopper is made of 16 gauge steel and has a capacity of about two and one-half cubic feet and is bolted to the mixing drum. It is provided with a steel slide to regulate the feed to the mixer and to close the hopper to load a new batch if desired. The Steel Water Tank is of sufficient size to meet all requirements and slides on the sides of the drum to any position desired. It can be set as shown or reversed to discharge near the hopper. Equipped with a half inch lever handle cut off valve. The Drive Pulley is 12 inches in diameter by 3 inches face, but we can furnish 10 inch or 14 inch if so specified. Be sure and state size desired when ordering. The pulley should run 220 revolutions per minute and can be handled very nicely with any engine of 1½ H. P. or over. The mixing drum is made of very heavy steel and is four feet long, heavily reinforced at both ends and center. The Mixing Blades are made of heavy cast iron in sections, interlocking into each other so if one should get broken it can be easily replaced at very small expense. They are spiral in design and very powerful. The Gearing is heavy and equipped with grease caps for lubrication. Sheet Steel Apron covers gearing so no material can drop into it. The Mixed Concrete is discharged from the end of the mixing drum where there is a slide that can be closed at the will of the operator to allow changing of wheel barrows, or to allow a very wet mixture to be made. Shipping weight about 300 pounds. Shipped from Factory as Down

B-2810—Supreme Power Concrete Mixer on Skids $34.95

AUTOMATIC CEMENT BLOCK MACHINE

Build Your Own Home or Store
300 16-inch Blocks Daily Capacity

$22.50 Complete With Full Equipment

Our Automatic Cement Block Machine is made of the best gray iron castings, the material is especially mixed for this purpose, making the parts of unusual strength and stiffness. Simple in design as all springs, cogs, ratchets, etc., are eliminated, thus producing a machine without a single wearing part. It uses plain wooden pallets with two cleats on the back, and anyone can make them by using the pallet furnished with the machine as a sample. The machine consists of a mold and the base mold is of self-truing shape, and the eccentric levers hold it so solid and firm that you can tilt the machine in any manner with the mold either up or down with every assurance that it will not get out of true. Double cores are furnished with each machine as these are the most desirable. Machine permits easy and speedy operation and a few days will enable anyone to become familiar with it and how to secure the maximum output. It is practically unlimited, for 300 blocks a day have been made with this machine. One man can make from 100 to 150 blocks, according to his working ability, as the machine will work just as fast as you feed in the concrete. The size of the blocks, which can be made, are 8x8x16 inches. The 16 inch blocks have proven to be the most popular size for building purposes. The blocks are light enough to be easily removed by one man from the machine. They are light enough so that one man can lay them without any assistance. OPERATION: To release the material after mold is filled and tamped; first tap upward on the projecting lug in center of front wall; drawing upward by the projecting locks, one in each hand, unlocks the combination, front wall slides in grooves in side walls, drawing cores at same time; swing side walls outward, leaving block on pallet ready to be taken away. Accurate drawing is assured by this method. This machine will also make a two piece block for continuous air space, a veneer block with return corners, or a 2, 3, or 6 part re chimney block, by the same operation as the regular outfit. EQUIPMENT REGULARLY FURNISHED WITH EACH MACHINE: One Stand complete, one 8x16 face plate, rock face, two 8 inch end plates, to make cored ends, one Pallet, one Wood core for veneer blocks, two Round galvanized cores, one Double face plate, 8x16, rock face, two 8-inch end plates, rock face, one 16-inch plate for back of block, one Wood core for chimney blocks, one Wood core for veneer corners and one Tamping iron. Shipping weight abut 125 pounds. Shipped direct to you from Factory in Wisconsin.

B-2811—Automatic Cement Block Machine $22.50

OIL AND GAS FUEL TANK

These tanks are made from heavy gauge galvanized steel. Seams are closely riveted and heavily soldered which guarantees great strength.

Being made from best quality Galvanized steel they will last longer than the ordinary oil wagon tank made from black steel.

They have a 2-inch threaded and plugged opening in top for filling, and a 1-inch threaded opening in rear end, close to bottom, with 1-inch lock lever faucet for drawing off oil.

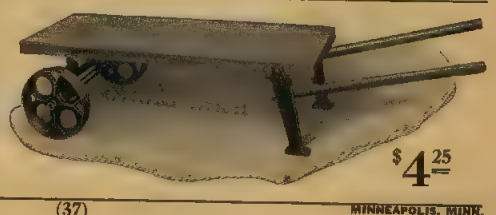
Prices are for tank only and do not include wooden bunks and holding down bands. These can be furnished at extra cost. See below. Shipped from Indiana factory.

No.	Length	Diameter	Gauge Steel	Capacity	Lbs.	Price
B-9001	6 ft.	18 in.	16	72 gal.	90	**$23.50**
B-9002	6 ft.	24 in.	16	140 gal.	125	**28.75**
B-9003	8 ft.	24 in.	16	190 gal.	135	**39.75**
B-9004	8 ft.	30 in.	14	290 gal.	260	**49.75**
B-9005	8 ft.	34½ in.	12	380 gal.	300	**69.75**
B-9006	10 ft.	34½ in.	12	475 gal.	300	**82.00**

B-9007—Heavy wood bunks with holding down bands, as shown in cut above, extra 10.75

Wheelbarrow Engine Truck

This truck is made extra strong and is suitable for carrying engines up to 3 H. P. Can be bolted to any engine skids. By using these fixtures, you can mount any engine, making it portable. Truck consists of two wheels, two legs and bolster and two handles. The feet can be fastened to the floor with lag screws to make a stationary engine. Can be turned in its own length. The bolster can be located on engine skids to give proper balance. The plank shown in the cut is not furnished. Shipped from Factory in Southern Wisconsin. Shipping weight, 36 pounds.



$4.25

B-2315—Wheelbarrow Engine Truck $4.25

"PENNANT" BASEBALL MASKS

1K700 — "Varsity League," Good grade [illegible] Each $1.80

1K701 — "Major League," full [illegible] Each $3.50

1K702 — [illegible] model [illegible] Each $5.25

"PENNANT" CATCHERS' BODY PROTECTOR

1K705—"Professional Style, made of the best quality tan khaki canvas outside facing [illegible] Each $6.75

"PENNANT" BASEBALL SHOES

1K48— [illegible] Pr $4.75

1K781— "Professional" [illegible] Pr $6.75

"PENNANT" BASEBALL BASE SET

1K715—Regulation, made of the finest quality extra heavy white canvas [illegible] complete with straps and spikes. 3 in set. Last in pkg. SET of 3 $6.75

CAMPERS' GOODS. The possibility of doing an unusual profit-paying business in Camp Goods [illegible] HAS A GOOD DISPLAY. The goods we show [illegible] are the NEWEST and all readily APPEAL TO YOUR CUSTOMERS

"PENNANT" BASEBALL UNIFORMS

All numbers carried in stock ready for immediate shipment. Skillfully tailored, serviceable athletic flannel, attractive color combinations. Made full and roomy, allowing for freedom of action. Suit comprises cap, shirt, pants, belt, stockings. Each uniform complete in box. Swatch card showing materials sent on request.

"Varsity League"—Specially woven cotton athletic flannel, many warps adds to wearing qualities. Gray with navy stripes ⅜ in. apart, around navy military collar and down front plait, band around elbow sleeves. Boston style cap, leather belt, heavy ribbed cotton athletic stockings, 4 in. navy calf stripe. Each uniform in box.
1K9000—Sizes 36 to 42. SPECIFY SIZES Temp Out

"Major League"—10 oz. all worsted athletic flannel tailored seat and hips. Gray with green stripes ⅜ in. apart. New York style V neck style collar, green band around neck and down front plait and around elbow sleeves. Philadelphia style cap with thread eyelets, leather belt, heavy cotton athletic stockings, green calf stripe. Corded seams on cap and pants. Each uniform in box.
1K9001—Sizes 36 to 42. SPECIFY SIZES Temp Out

"Official League"—14 oz. wool athletic flannel, large and roomy. Gray with broad navy stripes ⅜ in. apart. Military style collar, navy [illegible] around neck down front plait and around elbow sleeves. Philadelphia style cap with [illegible] leather belt, heavy wool athletic stockings with 4 in. navy calf stripe. Corded seams on cap and pants. Each uniform in box.
1K8002—Sizes 36 to 42. SPECIFY SIZES Temp Out

"PENNANT" BASEBALL UNIFORM LETTERS

1K9125—3 in. plain block type, wool felt, adhesive tissue back for attaching. Colors: navy and green. Specify letters and colors wanted [illegible] Temp Out

D. & M. BASEBALL GLOVES & MITTS

Extensively advertised both [illegible] period's [illegible] Last four years by the leading [illegible] of the country and various their [illegible] of approval. Every [illegible] is reliable

INFIELDERS' BASEBALL GLOVES

1K685 [illegible] Each $5.25

1K686 [illegible] Each $5.50

1K667 [illegible] Each $6.50

1K668— [illegible] Each $7.25

1K669 [illegible] Each $8.50

BASEMEN'S BASEBALL MITTS

1K684—"Intercholastic model" olive green leather throughout [illegible] Each $8.25

1K685 Jake Daubert Model [illegible] Each $9.50

CATCHERS' BASEBALL MITTS

1K696— Chief Meyers Model "professional style olive green color, leather palm and fingers, black [illegible] Each $9.50

1K697 [illegible] Each $10.50

"NUFORM" JOCK STRAPS

Elastic band, patent sack inside [illegible] Doz. $10.50

1K185S Small
1K185M Medium
1K185L—Large

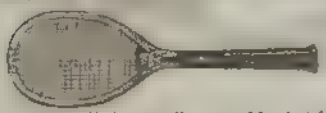
REGARDING THE GOVERNMENT EXCISE TAX—The U. S. Government Excise Tax on all taxable Sporting Goods is included in our prices. It will not be added to the printed prices shown. The "Pennant" Reach and the D. & M. brands, which we offer, sell readily on their merits. Every item has dependable workmanship, selected materials and price fairness. Buy from "Our Drummer" for better values

TENNIS GOODS

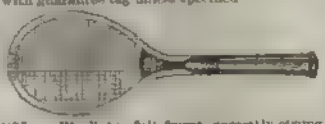
Fresh, clean, 1920 sellers, the most advanced products of factories that specialize in tennis goods. The nation-wide [illegible] encouraging [illegible] leading sport this season will create an enormous demand and bring additional business to the merchant who has the right goods. We offer here the best values. The kind that [illegible] low prices and quick [illegible]

"PENNANT" TENNIS RACKETS

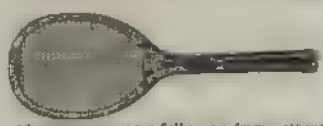
[illegible] that will [illegible] Pennant rackets are made with seasoned white ash frames—up-to-the-minute [illegible] Each in paper bag with guarantee tag unless specified



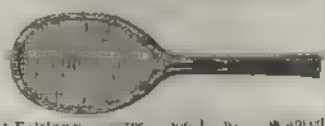
Volley—Full size, well strung with oriental [illegible]
1K732—1 in bag. Each **$1.50**



"Marvel"—Extra full frame, correctly strung with oriental gut. Walnut wedge, low cut [illegible]
1K735—1 in bag. Each **$1.80**

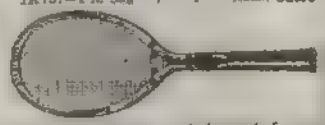


Champagne—Large full oval frame, strung with [illegible] oriental gut, with [illegible] shoulders and [illegible] with selected cedar grip
1K[illegible]—1 in bag. Each, **$2.25**

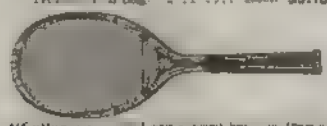


Fairlawn—[illegible] oval frame, [illegible] shoulders, genuine ash wedge, [illegible] cedar grip
1K707—1 in bag. Each, **$2.50**

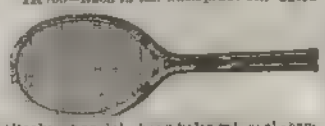
"University"—Legois [illegible] latest model reinforced double [illegible] wrapped neck, [illegible] double [illegible] strengthening [illegible]
1K[illegible]—1 in bag. Each **$3.10**



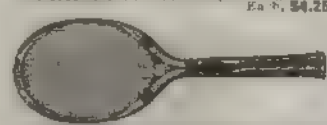
"Brentwood"—[illegible] oval head frame [illegible] shoulders, genuine ash wedge, [illegible] cedar grip
Each
1K760—Each in tan waterproof bag **$3.95**



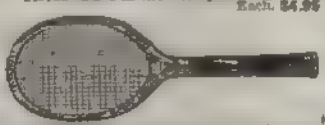
"College"—Legois [illegible] head, [illegible] Doherty double [illegible] with [illegible] wedge, reinforced with purple linen [illegible] Legois [illegible] leather [illegible]
1K[illegible]—Each in tan waterproof bag **$4.25**



"Derby"—Special [illegible] oval shape [illegible] with [illegible] shoulders, [illegible] wedge, [illegible] cedar grip
1K758—Each in tan waterproof bag **$4.95**



"Autocrat"—[illegible] egg shape, [illegible] braced frame, latest American model, [illegible] Doherty double [illegible] with [illegible] wedge, [illegible] oriental gut, walnut shoulder straps and wedge, reinforced with purple linen [illegible] the special black walnut [illegible] Each
1K[illegible]—Each in tan waterproof bag **$5.50**



Tournament—Long [illegible] size hexagon [illegible] with [illegible] shoulders, [illegible] wood shoulder straps, [illegible] walnut wedge, full cork wrapped grip. Each
1K[illegible]—Each in [illegible] gut string **$6.50**
1K[illegible]—Each lambs' gut string **8.25**

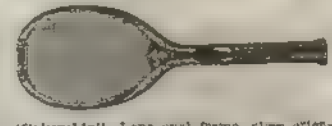
WRIGHT AND DITSON TENNIS RACKETS

White ash frames, [illegible] spliced, seasoned cedar grips, 13½ to 14½ oz. Each in paper bag with manufacturer's guarantee tag

"Star"—Youths' size, mahogany wedge, oriental gut.
1K[illegible]—1 in bag. Each **$1.15**

"Bob"—Full size, natural mahogany wedge, wood cap, oriental gut
1K[illegible]—1 in bag. Each **$1.80**

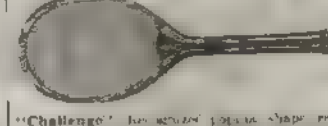
"Park"—[illegible] white ash frame, strung with [illegible] oriental gut
1K750—1 in bag. Each **$2.25**



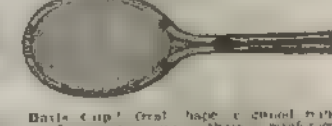
"Colonial"—Long oval frame, close oriental [illegible] with [illegible] wedge
1K[illegible]—1 in bag. Each **$2.85**

Longwood—Seasoned [illegible] ash frame [illegible] wood [illegible] with [illegible]
1K785—1 in bag. Each **$3.50**

Champion—Full oval frame, fine oriental [illegible] with [illegible] tape [illegible]
1K[illegible]—1 in bag. [illegible] Out



"Challenge"—[illegible] special shape, [illegible] offered [illegible] with [illegible] oriental gut, [illegible]
1K[illegible]—1 in bag. [illegible] **$5.50**



Davis Cup—Oval shape, [illegible] frame, [illegible] with [illegible] wedge, [illegible] cedar grip, [illegible]
1K[illegible]—1 in case. [illegible] Out

Ward & Wright—Popular shape, double [illegible] oriental gut, [illegible] Finest [illegible] ash handle, [illegible] throat, used by national champions
1K[illegible]—1 in bag. Each, **$9.00**

"PENNANT" TENNIS RACKET CASE

1K748—Olive [illegible] single texture waterproof [illegible] cloth [illegible] leather [illegible] Each [illegible] paper bag. Each **60c**

WRIGHT & DITSON CHAMPIONSHIP TENNIS BALL

1K790—Adopted as standard by the U. S. [illegible] A ball [illegible] on turf. The [illegible] of this ball
1 doz. in box **$5.50**

"PENNANT" DOUBLE COURT MARKING TAPE

1K[illegible]—Double [illegible] marking stripes [illegible] complete double court. [illegible] galvanized staples. Each set in box with [illegible] chart
Set **$7.85**

"PENNANT" TENNIS NETS

Made from No. 15 twine, heavy canvas bound. Each in carton. Poles not included

1K775—36x3 ft. Each **$4.65**
1K776—42x3 ft. **5.25**

"CROWN" CROQUET SETS

Hard maple mallets and heads [illegible] with special gloss varnish will not crack or flake. Each set in [illegible] wood box with [illegible] and instructions

Juvenile Set—Dandy for youngsters, fancy design mallets and balls ⅝ standard size, painted and varnished.
4 BALL SET—
1K[illegible]—1 set in box. Set **$1.50**
1K[illegible]—4 sets in crate. Total $4.200 " **1.40**
6 BALL SET—
1K[illegible]—1 set in box. Set **$1.85**
1K[illegible]—3 sets in crate. Total $5.25 " **1.75**

Standard—5 in. turned and striped mallets varnished and striped balls and stakes. 2 sets in crate.
1K[illegible]—4 ball set, 3 lbs. [illegible] (Total $4.95) Set **$1.65**
1K[illegible]—6 " 5 " [illegible] " 6.30) " **2.10**
1K[illegible]—8 " 8 " [illegible] " 7.20) " **2.40**

8 Ball Set—Selected stock, 5 in. varnished mallets, balls and stakes with [illegible]
1K[illegible]—1 set in box, [illegible] lbs. Set **$2.95**
1K[illegible]—4 sets in crate, 61 lbs. (Total $8.55) **2.85**

"Professional"—Painted and varnished stakes, balls and 9 in. mallets with short professional type handles.
4 BALL SET—
1K[illegible]—1 set in box, 16 lbs. [illegible] Set **$2.85**
1K[illegible]—4 sets in crate, 48 lbs. (Total $8.40) " **2.80**
8 BALL SET—
1K[illegible]—1 set in box, 28 lbs. Set **$3.65**
1K[illegible]—4 sets in crate, 90 lbs. (Total $10.80) " **3.60**
8 BALL SET—
1K[illegible]—1 set in box, 24 lbs. Set **$4.25**
1K[illegible]—3 sets in crate, 73 lbs. (Total $12.60) " **4.20**

"Perfection" 8 Ball Set—Fancy painted and varnished stakes, balls with 8½ in. mallets with beaded hills. Large wickets with sockets.
1K[illegible]—1 set in box, 65 lbs. Set **$4.00**
1K[illegible]—3 sets in crate, 60 lbs. (Total $11.70) " **3.90**

"Professional" De Luxe—8 in. dogwood mallets, nickeled and trim, fancy turned short handles threaded to mallets, painted and varnished selected dogwood balls, turned stakes, white enameled arches, 2 clasp hinged box handles.
4 BALL SET—
1K[illegible]—1 set in crate, 28 lbs. Set **$9.50**

George, Hankins & George, Contractors, of Richmond, Va., have a fleet of ten Autocars. In working on this excavation for the new Federal Reserve Bank at Fourth and Franklin Streets, Richmond, these Autocars were kept busy for more than four hours a day. Two shifts of drivers were operating. On every load out of the excavation these Autocars pulled up a thirteen per cent grade.

For Two Months these Autocars Worked 24 Hours Every Day

It is because the Autocar Motor truck does stand up and deliver economically that half of all the Autocars this Company can make are bought by concerns that already use Autocars.

The 8000 Autocar users in 450 different lines of business have found, too, that the unusual system of Autocar aftersale service through direct factory branches and dealers is the best assurance they can have of continuous motor truck operation

The Autocar Company is represented by factory branches and dealers from coast to coast. Through them it assures complete aftersale service to every Autocar user.

Chassis (1½-2 ton)
$2300 97-inch Wheelbase
$2400 120-inch Wheelbase

THE AUTOCAR COMPANY, *Ardmore, Pa.*

Established 1897

The Autocar Sales and Service Company

New York	Boston	Philadelphia	Chicago	Pittsburgh	San Diego
Brooklyn	Providence	Allentown	St. Louis	Los Angeles	Sacramento
Bronx	Worcester	Wilmington	Baltimore	Stockton	Fresno
Newark	Springfield	Richmond	Washington	Oakland	San Jose
	New Haven	Atlantic City	Atlanta	San Francisco	

Represented by these Factory Branches, with Dealers in other cities

Autocar

Wherever there's a road

THE CARBIC FLARE LIGHT

THE Carbic LIGHT
TRADE MARK

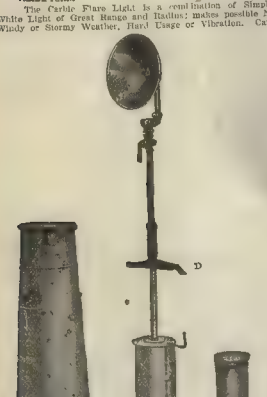
A CLEAR WHITE LIGHT OF GREAT RANGE AND RADIUS

Approximately 2,000 C. P. at a Cost of about 5 Cents per Hour

Designed for the use of Contractors, Railways, Mines, Street Work, Docks, Foundries, Dredges, Steam Shovels, Ditching and Threshing Outfits, Circuses, Lumber Camps, Landings, Summer Resorts, etc.

THE Carbic LIGHT
TRADE MARK

The Carbic Flare Light is a combination of Simplicity, Strength, Economy, Efficiency and Durability. It gives a Clear White Light of Great Range and Radius; makes possible Night Work, Day Work. It is Readily Transported and is Unaffected by Windy or Stormy Weather, Hard Usage or Vibration. Can be Cleaned and Recharged in a few minutes.



A—Tank.
B—Gas Bell, Riser Pipe Burner and Reflector.
C—Cake Holder. D—Strainer.
The No. 2 Carbic Flare Light Ready for Charging.

PATENTED CARBIC CAKES
For Outside Carbic Lights

Carbic is High Grade Calcium Carbide treated and compressed into Cakes by a patented process; Prevents Waste, is Easily and Safely Handled and gives no trouble in using.

Size No. 20—Size of Cake, 4 in. in Diameter; 40 Cakes in Drum. Weight 103 Lbs.	Per Drum Each
	$12.00

This Illustration shows the No. 2 Carbic Light Ready for Operating.

COMPLETE OUTFITS

	Each
No. 1 Holds Two No. 20 Carbic Cakes; will Burn about 12 Hours Without Recharging. Weight Without Charge, 21 Lbs. Charged for Operation 73 Lbs.	$50 15
No. 2 Holds Four No. 20 Carbic Cakes; will Burn about 12 Hours Without Recharging. Weight Without Charge, 41 Lbs., Charged for Operation 120 Lbs.	$55 15

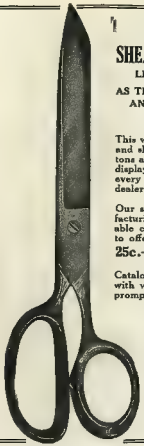
General Description

Consists of but Three Parts and is constructed of Heavy Galvanized Steel and Brass; equipped with a Special Automatic Reflector which may be swung to any desired angle. It is very simple in its construction, has no intricate parts, is not explosive and is easy to handle.

It operates automatically, requiring no attention other than recharging, for which purpose the light may be left burning until before exhausting the Carbic in the cake holder, two parts referred to may be lifted by the inserting any reasons to length of time for later operation thereafter from their connection.

In Cold Weather—The water must be protected from freezing. Use enough salt to prevent freezing and cover with hay, straw or other suitable insulating material and some common salt in the water will prevent. A metal shield around the Tank, as well as a cover. Water Lamp is exposed to freezing weather, it will be necessary to protect the tube except in very extreme weather. Water Lamp is exposed to freezing weather, it will be necessary to protect the tube except in very extreme weather. In very cold weather it is well to remove the plug, the water from the Tank, as well as the Gas Bell, in this case. Replace strainer, putting an ordinary pipe coupling in its place. Replace cover as you would.

CAUTION—Do not have any Flame, nor Allow any Person who is Smoking, Near the Flare when Removing the Gas Bell After Use



"ACME"
SHEARS & SCISSORS
LEAD THE WORLD

AS THE BEST LOW-PRICED AND MEDIUM-PRICED CUTLERY

This wonderful line of scissors and shears sold in paper cartons and mounted on counter-display cards should interest every wholesale and retail dealer.

Our special process of manufacturing with hard and durable cutting edges enables us to offer the best lines of

25c.—50c.—75c. Items

Catalog No. 5 (72 pages), with wholesale prices, will be promptly sent on request.

Build up your cutlery sales by adding "Acme" Brands.

Please order from your jobber.

The Acme Shear Co.
Knowlton, Hicks and Arctic Sts.
BRIDGEPORT, CONN. U. S. A.

Efemco

Casters

The casters that maintain standards evolved through 85 years' manufacturing experience. They support the dealers' recommendation with smooth, satisfactory service.

Grip Neck Casters
Furniture Trimmings
Ball Bearing Casters
Automobile Accessories
Roller Bearing Casters
Piston Rings
Truck Casters
Cast Aluminum Ware
Grey Iron Castings

Foster, Merriam & Co.
Meriden, Connecticut

New York Office, 225 Canal St.

Standardized by 85 years of service

Customers Will Do Their Own Demonstrating

Mount an Adjusto Household Rack on your counter or showcase and almost every woman who sees it will almost instinctively reach out a hand to examine the convenient folding arms. *You* don't have to spend time demonstrating. Women sell themselves on

Adjusto Household Racks

These handy little conveniences do away with unsightly nails in the kitchen, bathroom, laundry. They help make housekeeping easy. Adjusto racks sell at a small price and make you a good profit. Made in two designs, 3-arm rack and 6-arm rack.

Write for Descriptive Circular and Dealer Proposition.

Fernald Mfg. Co., Inc., North East, Pa.

A Wonderful Process of Economy

Saves 45% of your Butter Bill

The patented Metal Dasher of this machine is

An Exclusive Feature

It is constructed upon the principles of a propeller which give the greatest mixing force—an essential to merging milk and butter. It is made of metal—with no wooden part to swell and shrink and become unsanitary.

Pat. Feb. 6, 1917

The Most Effective Churn and Mixer

THE LIGHTNING BUTTER MACHINE

Makes Two Pounds of Milk-Charged Butter from One Pound of Butter and One Pound of Milk. Also Butter-milk from sour milk. Write for prices

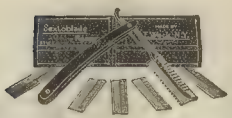
STEWART - SKINNER CO.
420 GREEN ST. WORCESTER, MASS.

COMBINATION RAZORS

WECK'S SEXTOBLADE

May be Used Like a Good "Plain Razor" or as a "Safety" as you prefer

Keenly Edged, Reversable and Renewable Low Cost Blades, with Removable Safety Guard, Frame and Guard Heavily Silver Plated, Hard Rubber Handle. May be used like a good "Plain Razor" or as a "Safety" as you prefer. It is so very simple that the most inexperienced can use it successfully, yet it offers Decided Advantages to the experienced self-shaver who knows how to strop and how to keep his razor in order.

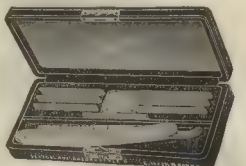


In Plain, Green Imitation Leather Case, Size 6½x2¼x¾ in.

Each

Style A Razor with Black, Hard Rubber Handle, with Safety Guard and Six Blades $2.50

Weight Each, about ¼ Lb.

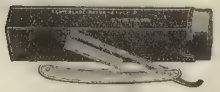


In Neat Plush-Lined, Imitation Leather Case, with Side Clasp Fastening: Size of Case 6½x2¾x1¾ in.

Each

Style B—Razor with White, Hard Rubber Handle, with Safety Guard and Seven Blades. $3.50

Weight Each, about ½ Lb.

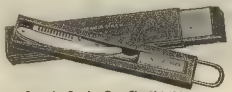


In Neat Telescope, Imitation Leather Case, Size 7x1⅝x1¾ in.

Each

Style F—Combination Traveling Set—Razor with White, Hard Rubber Handle, with Safety Guard and Six Blades. Inner Case has Two Cushioned Strops attached to sides. $4.00

Weight Each, about ½ Lbs.



Imitation Leather Case, Size 9¼x1¾x1 in.

Each

Style H—Combination Traveling Set; Razor with White, Hard Rubber Handle, with Safety Guard and Six Blades. Ingenious Cushioned Strops with Sliding Wire Handle form part of the case $4.50

Weight Each, about ¾ Lb.

SEXTOBLADE BLADES

Dozen Packages

Sextoblade Blades; Three in a Package. $4.00

SAFETY RAZORS

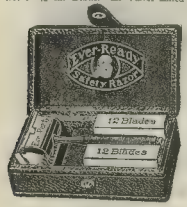
**RE **

The Best and Most Practical Safety Razor on the Market, having all the Advantages of a Safety and the Finest Barber's Style Razor Combined. It is simply perfection, giving Comfort, Convenience & Security not to be had in other razor can give. It being Impossible to Cut the Skin and allows the Easy Draw-a. Stroke of the Ordinary Razor, doing away with the Scraping Motion which is not only very objectionable but injurious to the face. The Guard is Easily Removed for Stropping and Cleaning. The Blades are Ground Very Thin and need very little honing or stropping.

Full Concave Blade, Honed Point, Fine Glazed Finish; Oval Rubber Handle; Reversible Guard; Nickel Plated

Per Dozen

No. 0—⅝ in. Blade. In Velvet Lined Imitation Leather Case.....$24.00



EVER-READY

As Popular as the Dollar Watch

Every One Sold Advertises Itself and Means More New Customers

Each

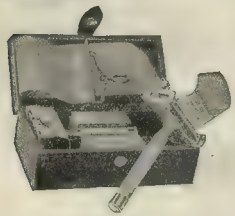
Ever-Ready—Patented Safety Frame, Silvered Finish; Enameled Wood Handle, with Blade Stropper, Twelve Wafer Blades, Electrically Hardened and Tempered Ready for Use, Can Be Stropped if Necessary. Each Set Complete in Leatherette Case, Guaranteed to Give Satisfaction.....$1.00

Per Dozen

Extra, Ever-Ready Blades—Packed Twelve (12) in a Package and Separately Wrapped.....$0.60

Extra, Ever-Ready Blades—Packed One Gross on Display Card in Packages of 10 and 12 Separately Wrapped..... 7.20

Trade Mark



EVER-READY COMBINATION

Very ingeniously arranged Case Containing the Standard 12 Bladed "EVER-READY" Outfit together with the Very Latest Improved "EVER-READY" Blade Stropping Machine and a Genuine Horsehide, Nickel Trimmed Strop.

This Outfit has been added to the Highly Attractive Line of "EVER READY" Special Outfits and not alone will prove a Quick Seller on account of the Big Value but for its Novel Appeal as well.

Each

No. 2—Ever-Ready Combination.....$3.50

EVER-READY TRAVELERS' OUTFIT

Our Traveler's Combination Outfit has been remarkably improved. This New "EVER-READY" Case is more compact, has Adjustable Mirror in the Back, Two-Nickeled Blade Holders for the Twelve Blades, Nickeled Collapsible Badger-Hair Shaving Brush, Nickeled Shaving Soap Case with Soap, and the "EVER-READY" Frame and Combination Handle.

Each

No. 3—Ever-Ready Travelers' Outfit.....$3.50

PRESS BUTTON POCKET KNIVES

No. 2621 Stag. 4½ inches. Iron Lined. One Side Polished. With Guard. Per Dozen **$32.00**
Half dozen in a box. Weight, per dozen, about 3 pounds, 14 ounces.

POCKET KNIFE PURSES

KID. BUTTON FASTENING

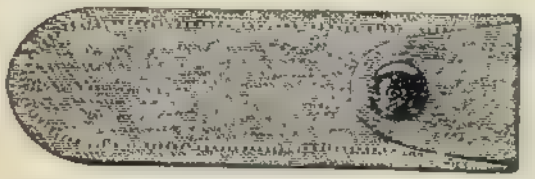
No. 400—Sizes	0/B	1/B	2/B	3/B	5/B
Length, inches	2½	3½	3¾	3¾	4
Weight, oz. per gross, about	17	18	21	27	28
Per gross	$15.00	15.00	15.00	15.00	15.00
	$18.00	**18.00**	**18.00**	**18.00**	**18.00**

Third gross in a box

KID. BUTTON FASTENING

No. 0400—Sizes	0/B	1/B	2/B	3/B	5/B
Length, inches	2½	3½	3¾	3¾	4
Weight, oz. per gross, about	17	18	21	27	28
Per gross	$10.00	10.00	10.00	10.00	10.00
	$12.00	**12.00**	**12.00**	**12.00**	**12.00**

Third gross in a box.



CLOTH. BUTTON FASTENING

No. 60—Length, inches	2½	3	3½	3¾	3¾	4
Weight, oz. per gross about	16½	20	24	25	26	34
Per gross	$7.00	7.00	7.00	7.00	7.00	7.00
	$8.00	**8.00**	**8.00**	**8.00**	**8.00**	**8.00**

One gross in a box

CHAMOIS SKIN. SILK STITCHED SLIP END

Per Gross

No. 500—Assorted sizes $2.50 **$3.00**
One dozen in a package. Weight, per gross, about 9 ounces.

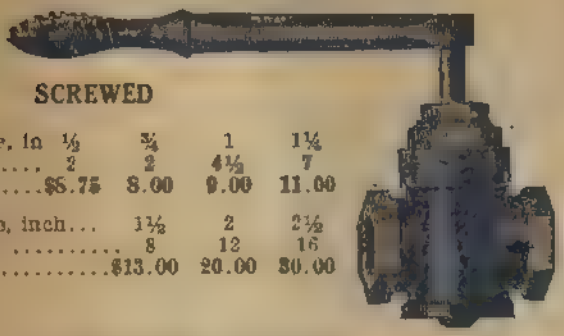
KID PURSE FASTENING

No. 200—Sizes	0	1	2	2½	3	4
Length, inches	3	3½	3½	3¾	4	4½
Weight, ounces per gross, about	34	42	48	50	52	54
Per gross	$15.00	15.00	15.00	15.00	15.00	15.00
	$18.00	**18.00**	**18.00**	**18.00**	**18.00**	**18.00**

Quarter gross in a box

THROTTLE VALVES

STEAM METAL



SCREWED

*Fig. 58—Size, in	½	¾	1	1¼
Weight, lbs	2	2	4½	7
Each	$5.75	8.00	9.00	11.00
*Fig. 58—Size, inch	1½	2	2½	
Weight, lbs	8	12	16	
Each	$13.00	20.00	30.00	

IRON BODY. SCREWED

*Fig. 59—Size, inch	1½	2	2½	3	3½	4
Weight, lbs	8½	15½	19	33	40	59
Each	$15.00	22.50	30.00	40.00	50.00	60 00

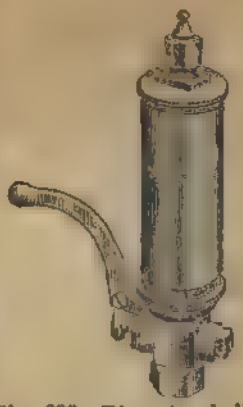
WHISTLE VALVES

BRASS WITH ADJUSTABLE LEVER

For Working Pressures up to 200 Pounds

Fig. 311—Size, inch	¼	⅜	½	¾
Weight, lbs	7	9	1	1½
Each	$2 00	2 00	2.50	3.00
Size inch	1	1¼	1½	2
Weight, lbs	2 4	3 4	5	7
Each	$4.40	5.60	7.40	14.00

STEAM WHISTLES



STEAM METAL WITH VALVE

STANDARD

Fig. 339—Diameter bell, inch	1	1½	2	2½	
Size pipe, inch	¼	⅜	¾	¾	
Weight, lbs	1	1¾	2¾	3	
Each	$3 10	4.00	5 50	6.50	
Fig. 339—Diameter bell, inch	3	3½	4	5	6
Size pipe, inch	1	1	1¼	1½	2
Weight, lbs	4½	6½	8	13¼	23
Each	$8.50	11.50	15.00	22.50	33.00

SINGLE BELL CHIME

FRISBIE PATENT

Fig. 141—Diameter bell, inch	1½	2	2½	3
Size pipe, inch	½	½	½	¾
Weight, lbs	2¼	2½	3½	5¼
Each	$7 50	8 00	11 00	14 00
Diameter bell, inch	4	5	6	
Size pipe, inch	1	1¼	1½	
Weight, lbs	9¾	20	30½	
Each	$20 00	35 00	50 00	

STEAM TRAPS

NASONS—For Working Pressures of 80 Pounds or Less
SIDE LUG—For Working Pressures of 80 to 150 Pounds

Cut Showing Side Lug

Figure 305

Nos.	1	2	3	4	*5
Size of pipe connections, inch	½	¾	1	1¼	1½
Diameter outside of flanges, inch	10¾	14¼	15¾	19	24¼
Diameter of cylinder, inch	8	10½	12	14	18
Height to top of valve, inch	11	14	16¼	18½	23½
Height to top of cover, inch	8	10	12	14	15½
Maximum discharge lbs water per minute	2	5	8	12	20
Greatest number of square feet of surface to which it should be applied	350	900	1400	2000	35000
Greatest number of lineal feet of 1-inch pipe surface to which it should be applied	1050	2700	4200	6000	10500
Weight, lbs	40	80	113	176	336
*Nason, Each $	...	...	72.50	108.50	211 50
*Side Lug "	32.00	62 00	78 00	120.00	220 00

*For factory shipment only.

RELIEF VALVES

WATER OR OIL

BRASS. SCREWED

Extra heavy. Especially adapted for fire hydrants, steam pumps, fire engines, and wherever a perfect automatic valve is needed to prevent the bursting of hose or pipe, and relieve the over pressure of water; also to protect against the damage caused by water in the cylinders of steam engines. Recommended by all fire insurance companies. Reduces insurance rates. It can be regulated by screwing the head bolt up or down.

Fig. 330—Semi-finish.

Size, inch	¾	1	1¼	1½	2
Weight, lbs	2	3	4	6	9
Each	$10.00	12.00	15.00	18.00	27.00

BRASS. SCREWED

Phosphor Bronze Seats. Male Base

For fire engines, pumps, steam cylinders or wherever a positive automatic relief is required.

Set to relieve at 75 pounds pressure, unless otherwise ordered.

Fig. 338—Semi-finish.

Size, inch	¾	1	1¼	1½	2
Weight, lbs	2	3	4	6	9
Each	$10.00	12.00	15.00	18.00	27.00

CROWN

BRASS. SCREWED

This valve is made on distinctly new lines. It has no seat to clog or wear, making it different from the old or poppet type. ¾-inch inlet and outlet.

Fig. 340B—For 150 lb pressure ..... Each $5.00
Fig. 340A—For 300 lb pressure ..... " 6.00

*For factory shipment only.

SAFETY VALVES

For Working Steam Pressures up to 100 lbs.

Levers graduated from 60 to 100 lbs in 10 lb graduations.

Fig. 135—Brass. Screwed.

Fig. 136—Iron body. Brass mounted. Screwed.

Fig. 236—Iron body. Brass mounted. Flanged.

Fig. 135—Size, inch	½	¾	1	1¼	1½	2
Weight, lbs	3	4	7½	11	17	28
Each	$3 25	3 90	4.70	7.15	9.00	12.50
Fig. 136—Size, inch		2	2½	3	3½	4
Weight, lbs		61	83	113	143	
Each		$7.80	13.25	17 25	23 00	28 75
Fig. 236—Size, inch				3	3½	4
Weight, lbs				50	75	100
Each				$24.50	27.50	34.00

POP SAFETY VALVES

STANDARD. BRASS. SEMI-FINISHED

FOR PORTABLE FARM AND HOISTING ENGINES

Top Outlet

Fig. 399

Angle Outlet

Fig. 398

Substantial, accurate and reliable. The side lever for lifting the disc is of improved construction, giving great power and acting centrally upon the spring. This will facilitate blowing out the valve when necessary. Set to blow off at 120 lbs pressure, unless otherwise ordered. Full directions for operating sent with each valve. Are allowed for marine use, on the basis of one square inch of valve to three square feet of grate surface and are made to comply with the rules and regulations of the United States Board of Supervising Inspectors of Steam Vessels. When ordered for marine use, the valve is made with beveled seat at an angle of 45 degrees.

Size, inch	½	¾	1	1¼
Capacity for boiler, H P.	3	6	10	15
Weight, lbs	¾	1	1½	2½
Fig. 399—Top Outlet ..... Each	$8.00	8.00	10.00	12.00
Fig. 398—Angle Outlet ..... "	10.00	10.00	12.00	15.00
Size inch	1½	2	*2½	*3
Capacity for boiler, H.P.	30	50	75	100
Weight, lbs	4	5¾	15½	23
Fig. 399—Top Outlet ..... Each	$15 00	23 00	38 00	65 00
Fig. 398—Angle Outlet ..... "	18 00	27 00	43 00	72.00

TOILET PAPER

PLAIN & CREPED

A selected line of good quality toilet paper. Sizes and prices are graded to meet all needs. The labels are very attractive. Order a selection from this showing now. Prices are bound to go up.

PLAIN TISSUE TOILET PAPER—Perforated Rolls—Finest quality tissue obtainable for the money

Admiral—Guaranteed 600 sheets, 4½x5, about 6 lbs. roll, glazed thin white tissue, new label design in blue.
Case
S2715—100 case, 45 lbs **$6.20**

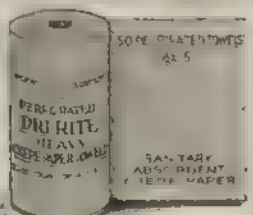
"Bon Ton"—Guaranteed 700 sheets, 4½x5, about 7 oz. roll. Fine quality waxed plain manila tissue, blue & gold label.
Case. **$6.35**
S2695—100 case, 70 lbs
5 case lots, **6.00**

"Lake Shore"—Guaranteed 800 sheets, 4½x5, bulky 8 oz. roll. Fine manilla silk tissue, attractive label design.
S2696—Lots of 5 lbs **$7.65**
5 case lots, **7.30**

Harvest Moon—Guaranteed full 1000 sheet count roll fine soft white tissue perforated sheets 4½x5, extra bulky roll.
Case
S2697—Lots of 5 lbs **$8.30**
5 case lots, **8.00**

"Trio"—Guaranteed 1000 sheets, 4½x5, about 10 oz. roll, excellent grade plain soft manila tissue, red & gold label.
Case
S2698—100 case, 75 lbs **$8.15**
5 case lots **8.75**

"DRI-RITE" CREPE PAPER TOWELING



S2509—Convenient roller box, white crepe stock, perforated sheets 11x15 in., wound on strawboard core, fancy white label.
Case **$9.00**

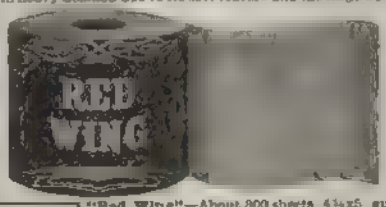
SANITARY CREPED TOILET PAPER—Perforated Rolls

Crepe paper continues in heavy demand due to its soft texture and the large bulk of the roll sheets.

Fawn—250 sheets, 4½x5, guaranteed 6 oz. roll, good white stock, neat label design.
Case **$3.80**
S2688—100 in case, 55 lbs **3.70**

"Nonpareil"—About 325 sheets, 4½x5, guaranteed 5 oz. roll, fine quality creped manila paper, handsome label design.
Case **$4.85**
S2685—100 in case, 58 lbs

STAR VALUE



"Red Wing"—About 300 sheets, 4½x5, guaranteed 4 oz. roll good white creped stock, famous "Red Wing" design. Sold in lots of 200 rolls or more.
Each **4½c**
(Total $9.00)

"Monogram"—About 300 sheets, 4½x5, guaranteed 6 oz. roll, white, blue & red label.
Case **$6.00**
5 case lots **5.50**

Creme Crepe—About 410 sheets, 4½x5, guaranteed 7 oz. rolls, new white crepe paper, neat label.
Case **$5.50**
S2689—100 in case, 64 lbs

"Tissue"—About 650 sheets, 4½x5, guaranteed 7 oz. roll, new white creped stock, attractive label design.
S2688—100 in case, 55 lbs
Case. **$7.15**
5 case lots, **6.85**

San Tax—About 450 sheets, 4½x5, guaranteed 8 oz. roll, good white creped paper, neat label design.
Case. **$7.30**
S2683—100 in case, 68 lbs

National—Guaranteed, full 650 sheet count roll, excellent quality white crepe stock, perforated sheets, 4½x5 in., containing more sheets than most crepe rolls.
Case
S2690—100 in case, 60 lbs **$7.75**
5 case lots. **7.40**

"Birchbark"—About 650 sheets 4½x5, guaranteed 9 oz. roll good white crepe paper, attractive new Indian label, design in colors.
Case. **$8.30**
S2534—100 in case, 70 lbs

"Northern Tissue"—Guaranteed full 7 oz. roll snow white bleached crepe tissue, unusually soft and cloth like, wrapped in white parchment keeping contents clean and sanitary, handsome label design in colors.
Case. **$6.75**
S2840—100 rolls in case, 70 lbs
5 case lots **5.50**

"COTTAGE" TOILET PAPER ROLL HOLDER

S3679—Nickeled steel oval round oak connecting strip, oak roller. 1 doz. in box
Box **$1.50**

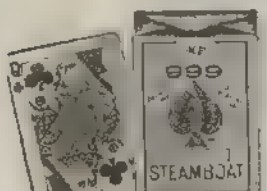
*Prices marked with a star (*) are "special" for the month. See "Stimulators."

PLAYING CARDS

CHIPS & DICE

The popular and advertised brands that every store must carry. There is good profit for you in this line. Our prices are quote

U. S. PLAYING CARD COMPANY'S CARDS



"Steamboat"—Latest design backs.
S2699—1 doz. in box Doz **$3.05**
Gro **$35.50**

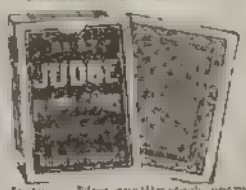
"Hornet"—[illegible] design backs. Assd. 1 doz. in box
S2700—[illegible] Doz **$3.60**
Gro **$41.50**

Bicycle "Club Back"—New design, [illegible] finish, new back case with sealed flap, prevents tampering.
[illegible]

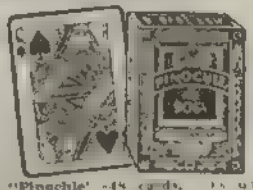
Bicycle—Red and blue backs. Assd. 1 doz. in box.
[illegible] Doz
Gro **$55.00**

[illegible] backs, in flat steel display case.
[illegible] Doz **$6.25**

STANDARD PLAYING CARD COMPANY'S CARDS



Judge—First quality stock, enameled [illegible] high color faces, perfect slip, [illegible] blue artistic marginal backs.
[illegible] Assd. 1 doz. in box. Doz **$3.35**
Gro **$38.50**



"Pinochle"—48 cards, [illegible] enameled, good stock, high color faces, red and blue backs.
S2063½—Assd. 1 doz. in box **$3.60**
Gro **$41.50**

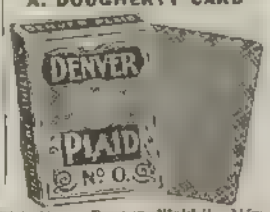
"Mail"—2 styles [illegible] back. Eight [illegible] by stock, high color [illegible]
S14—Assd. 1 doz. in box **$3.50**
Gro **$41.50**

"Liberty Bell"—Fine quality stock, linen finish, highly colored [illegible] blue backs.
S1770—Assd. 1 doz. in box **$4.50**
Gro **$52.50**

"WALDORF" GOLD EDGE PLAYING CARDS

S2200X—"Waldorf" gold edge [illegible] gold [illegible] additional [illegible] stock. Fine enameled finish, tuck cases. Assd. 1 doz. in box
Doz **$5.25**

A. DOUGHERTY CARD



S1448—Denver Plaid," Mfrs. No. 0, high calender finish, color faces, novelty plaid [illegible]
1 doz. in box
Gro. **$30.** 0) Doz **$3.15**

POKER CHIPS

Composition, Plain — [illegible] and blue [illegible] board box of 500.
Per 1
[illegible] in **$1.00**
[illegible] **1.25**
Engraved. First quality, 50 white, each red and blue in box
1½ in. "Crown"
Per 100 **$2.00**

"QUALITY" CELLULOID DICE

S2138 S2144
White Celluloid—First quality [illegible]
[illegible] **$1.50**
Transparent celluloid, [illegible]
[illegible]
S2134 RED, square } Doz.
S2136—RED, round } **$8.00**
S2136—GREEN square
S2137—GREEN, round
Doz **$5.25.**

PENCIL AND SPECIAL TABLETS

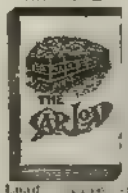
Big, bulky tablets with large counts of pages—compare them for quantity of paper and prices. When we say a tablet contains so many pages both sides of the sheet are counted, for example, a 100 page tablet has 50 sheets. Gross prices are for half gross lots or more

5½x8 SIZE

"The King Pin" — Ruled, news stock, red or green tint board cover. 1 doz. in pkg.
88804—5½x8, 50 pp. Doz. 50c
Gro. $5.75

"Nocks All" — Ruled, smooth news stock, red tint board cover. 1 doz. in pkg.
88815—5½x8, 100 pp. Doz. 50c
Gro. $5.60

6x9 SIZE



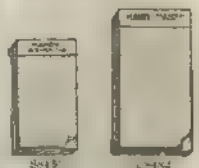
"Carlot" — Ruled, smooth news stock, with red tint board cover. 1 doz. in pkg.
88825—6x9, 100 pp. Doz. 55c
Gro. $6.15

"Chief White Locks" — Ruled, smooth news stock. 1 doz. in pkg.
88814—6x9, 80 pp. Doz. 42c
Gro. $4.70

8x12 SIZE

"General Pershing" — 8 styles, ruled smooth news stock, black and white covers. Assted. 1 doz. in pkg.
88847—8x12, 40 pp. Doz. 48c
Gro. $5.15

SCRATCH PADS



White News Stock — Unruled, 144 pp., perforated and stapled, bound and heavy board back. 25 pads in pkg.

	Per C
88481—2½x4½	$1.95
88482—3½x6	2.40
88483—4x6	2.75

8x10 SIZE

"Black Diamond" — Ruled, smooth stock. 1 doz. in pkg.
88039—8x10, 50 pp. Doz. 48c
Gro. $5.15

"Guarantee" — Ruled smooth news stock, popular black and white cover design. 1 doz. in pkg.
88830—8x10, 60 pp. Doz. 47c
Gro. $5.30

Army and Navy — 12 styles, ruled smooth news stock, with views. Assted. 1 doz. in pkg.
88830—8x10, 60 pp. Doz. 47c
Gro. $5.30

"Red Line" — Ruling, news stock, perforated and stapled, with red line for pen or pencil. 1 doz. in pkg.
88834—8x10, 60 pp. Doz. Out of Print

"Reflection"—4 styles, ruled news stock, litho covers. Assted. 1 doz. in pkg.
88847—8x12, 40 pp. Doz. 52c
Gro. $5.85

Manila 6x9, unruled yellow, gummed end, straw-board back, 50 pads in bundle
87373—Smooth finish, 140 pp. Per 100 $3.85
87371—Smooth finish, 160 pp..... Per 100, $4.20

"Movie Stars"—12 styles, ruled smooth news stock, fancy covers showing various favorites in the "Movie World." Assted. 1 doz. in pkg.
88810—8x10, 40 pp. Doz. 42c
Gro. $4.70

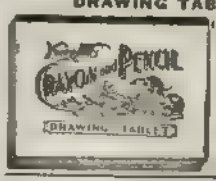
"Boy Scouts"—12 styles, ruled, smooth news stock, black and white "Boy Scout" covers. Assted. 1 doz. in pkg.
88810—8x10, 40 pp. Doz. 55c
Gro. $6.15

"Golden Rod" — Ruled, smooth manila perforated and stapled. 1 doz. in pkg.
88841—8x10, 80 pp. Doz. 58c
Gro. $6.50

School Tablet—4 styles, unruled news stock, assted. colored covers. Assted. 2 doz. in pkg.
88001—8x10, 40 pp. Doz. 63c
Gro. $7.15

"Warrior" — 8 styles, smooth news stock, red tint board cover. Assted. 1 doz. in pkg.
88847—8x12, 40 pp.
Gro. $5.40 Doz. 48c

DRAWING TABLET



Crayon & Pencil — Heavy white drawing paper, fine quality, black and gold title and design. 1 doz. in pkg.
88570—9x12, 24 leaves. Doz. 50c
Gro. $5.60

"ADVANCE" SPELLING TABLET

88558—4x9, 25 leaves, white wove paper, 25 numbered lines to sheet, perforated & stapled. 1 doz. in pkg.
Doz. 45c
Gro. $5.00

EXAMINATION TABLET

"Grade School" — White wove paper, red marginal lines, printed heading, holes for tying, red tag board cover, black title and design. 1 doz. in pkg.
88361—6x9, 48 leaves. Doz. Temp. Out

Merchants

Who are the most successful buyers, all the year 'round at the biggest values

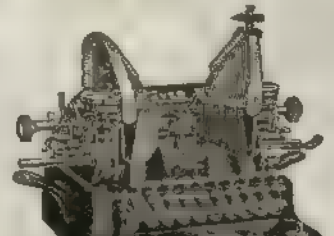
BUY FROM THESE PAGES

TYPEWRITERS ADDING MACHINE & SUPPLIES

Guaranteed rebuilt standard make typewriters at interestingly low prices. Also note carefully the prices we quote on supplies, etc. There are no better values on the market.

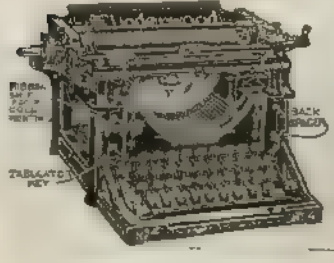
RECONSTRUCTED TYPEWRITERS

These machines have been rebuilt in every wearing part. Guaranteed for one year free from all defects and a new part will be furnished free in exchange for any part proving defective from other cause than misuse.



"Oliver" Visible Model No. 5, standard keyboard, back spacer, tabulator, ruling device, etc., as used for proper spacing when ruling on ruled paper sets of bills, etc., also with ruling attachment, with ribbon and rubber cover. 87005—4 in wood case, 17 lbs. Each $40.70

"Remington" Visible No. 10—Very late model, color printing, automatic ribbon reverse, back spacer, tabulator for columns or figures, splendid manifold qualities, exceedingly light touch, ribbon cover. 87397—1 in case, 64 lbs. Each $87.50



868—"Underwood" Visible No. 4, Bichrome Model, standard keyboard, back spacer, automatic ribbon reverse, takes paper up to 14 in. wide, tabulator, two color ribbon, perfect permanent alignment, in black, in fine condition, adjustable margin stops, 14 in. rubber roll. Serial numbers 100,000 up. Each in wood case 55 lbs. ..... Each Temp. Out

Extra Ribbons for "Remington" No. 10—
8803—Black record 1 in box Each 48c

Extra Ribbons for "Underwood" No. 4—
8806—Black record 1 in box } Each
8807—Purple 1 " } 48c

Extra Ribbons for "Oliver" No. 3—
8809—Black record 1 in box } Each
8811—Blue " 1 " } 48c

STENOGRAPHERS' NOTE BOOKS

Tag Board Cover, red or green tint, parchment back cover, 100 leaf pad, 3½x6 in.
Doz. 40c
Gro. $4.35

88839—4x6, 100 pp.
Doz. 43c
Gro. $4.60

Best Grade Hard Finish writing paper, ruling, 120 pp. Doz. Out

SECOND SHEETS

83741—8½x11, medium wt. manila sheets, 500 sheets to box Pkg. 72c

TYPEWRITER CARBON PAPERS

"Victor"—8½x13 extra fine, each 25 sheets in folder, 100 sheets in carton.
88735—Black } CARTON
88736—Purple } (100 sheets)
88734—Blue } $1.35
Lots of 10 cartons, solid or assted. carton $1.18

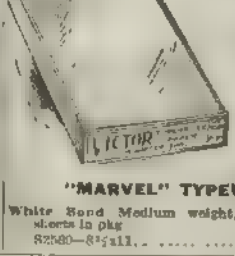
"VICTOR" TYPEWRITER PAPER

500 sheets in box

White Bond	Light wt.	Box
88880	8 x10½	$1.00
88881	8½x11	1.10
88882	8½x13	1.35

Cream Linen	Medium wt.	Box
88884	8 x10½	$1.20
88885	8½x11	1.30
88886	8½x13	1.80

White Bond	Medium wt.	Box
88890	8 x10½	$1.40
88891	8½x11	1.60
88892	8½x13	1.85



"MARVEL" TYPEWRITER PAPER

White Bond Medium weight, strong white bond. 500 sheets in pkg.
82580—8½x11..... Pkg $1.15

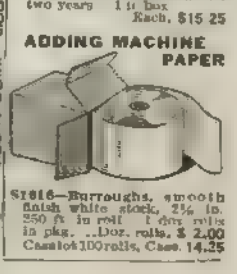
ADDING MACHINES

Add, subtract and multiply, guaranteed

$1422—"Golden Gem," 4½x5½ in. wt. 19 oz. nickel plated heavy metal outer casing, inner parts steel and brass, figures in black and white, 2 col. capacity 99,999.99, clears to zero mechanically, total always in sight. Each in morocco grain keratol case with 2 pens ..... Each $11.00

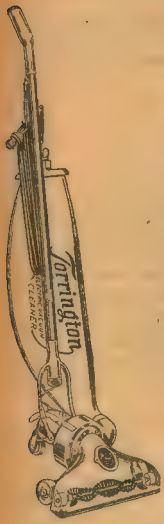
$1426—"Gem" Model 10, size 5½x8½x4½ in., nickel and nickel plated, 2 capacity 8 cols. $999.99, total in sight, 99,999,999 clears to zero mechanically, has figure for addition and red figures for subtraction. Guaranteed for two years. 1 in box Each, $15.25

ADDING MACHINE PAPER



$1816—Burroughs, smooth finish white stock, 2¼ in. 250 ft. in roll. 1 doz. rolls in pkg. ...Doz. rolls, $2.00
Carton 100 rolls, Case, 14.25

TORRINGTON MOTOR OPERATED VACUUM CLEANERS



The brush in the Torrington Electric Vacuum Cleaner is a big carpet sweeper brush operated in the same way as in a carpet sweeper. It picks up threads, hairs, lint and surface litter, which are whirled into the bag by the suction. It cleans clean without injury to the rug.

Dust Bag Connection—A quarter turn and the bag is detached. No clamps—no screws—no trouble.

Rubber tired wheels drive the brush, insuring positive action.

Nickeled Steel Nozzle—Aluminum discolors rugs or carpets—leaves behind a dark gray smut. Nickeled steel can't injure the finest rug or the most delicate colorings. Roller bearing wheels.

Small fan on motor shaft keeps motor air-cooled—they wear longer.

The nozzle adjusting device permits adjusting the cleaner for use on floor coverings of varying thicknesses.

Brush has three rows all-bristle tufts $\frac{13}{16}$-inch long. Built as a carpet sweeper brush—sweeps as efficiently.

Wheel bearings are all outside the suction nozzle—there's no possibility of threads, lint, etc., becoming entangled. Exclusively a Torrington feature.

Nozzle extension permits cleaning clear up to the walls and into corners.

Motor—Single phase, universal 25 to 60 cycle, 110 volt.

Control switch conveniently located in handle grip.

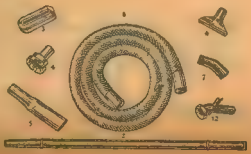
Every machine equipped with 25 feet of heavily insulated cord and connecting plug.

No.	**Model B12**
Shipping weight each, lbs.	17
Each	$55.00

EXTRA ATTACHMENTS

Extra cleaning tools supplied only when specially ordered and at additional cost. Necessary for cleaning upholstery, draperies, stairs, mattresses, etc.

1. Covered hose—8 feet long, for using attachments.
2. Extension handle—for reaching high places.
3. Brush—for cleaning clothing, walls, etc.
4. Blower—for connecting hose to exhaust of cleaner.
5. Tool—for cleaning radiators, books, etc., and for blowing.
6. Nozzle—for cleaning draperies, upholstery, etc.
7. Nipple—for connecting hose and attachments.
12. Connector—for connecting hose with cleaner.



Shipping weight per set, lbs.	6½
Per set	$10.00

UNIVERSAL MOTOR OPERATED VACUUM CLEANERS

The Universal Vacuum Cleaner has been designed and constructed with the utmost care to make it the most desirable of all household cleaners.

The volume of air is sufficient in the Universal Vacuum Cleaner to gather up all the dust and dirt particles. There are, however, pieces of thread and lint which become attached to the carpet and are not easily removed. For detaching these so that the air can take them to the bag, there is a gear driven brush which works easily without danger of injuring the most delicate fabric of the carpet.

Grip—The pistol grip giving a firm hold on the handle.

Bag Clamp—The bag clamp firmly attaches the bag and handle.

Fan—Solid cast aluminum, 6 special designed plates insuring a large volume of air.

Motor—Universal horizontal type, self oiling, dust proof bearings, operating on either alternating or direct current. Perfect balance, enclosed in heavy housing sufficiently ventilated to insure proper working temperature.

Casters—Large rubber tired casters to prevent injuring polished surface of floors.

Switch—The switch is conveniently located with perfect control of the motor at all times.

Cord—20-foot flexible electric light cord with socket plug attachment.

Dust Bag—Specially selected satin finished fabric lined with extra heavy material.

Suction Hose Attachment—Extra large connection direct to the center of the fan.

Nozzle Full 12 inches wide adjusted to the proper distance from the floor for the most efficient work.

No.	**E 701**
Voltage	110 and 32
Color	Verde-Green
Net weight, lbs.	10½
Shipping weight, lbs.	25
Each—Without attachments	**$39.50**

For Voltages other than 110 or 32, add $1.50 to list price.

One in a wood case with handle and without attachments.

ATTACHMENTS EXTRA

8-foot web covered hose 1¼-inch.	Hollow clothing brush.
30-inch extension tube.	Blower nozzle.
7-inch drapery nozzle.	Connector tube.

Shipping weight each, lbs.	7
Set of six	$10 50

Shipping weight cleaner in wood case, complete, with all attachments, 28½ lbs.

WHEEL TOYS

Everything that sells, at the market's bottom prices, and we have the goods to ship AT those prices. We are America's headquarters for wheel toys of every nature. Even in these abnormal times, we are giving remarkable service considering the difficulties all manufacturers are having with their supplies of materials, labor troubles and consequent lowering of production.

BOYS' WOOD WAGONS—Long Handles

Coaster—Varnished and stenciled hard wood bodies, colorful overall effect, heavy welded oval tires, hub caps, steel axles.
F73—32x16, 11 and 15 in. wheels, 4 in. coaster, 97 lbs. . . . . Each, $3.95
(Total $12.00)
F74—32x16, 14 and 18 in. wheels, 5 in. coaster, 99 lbs. . . . . Each $3.50
(Total $7.00)

Panel Sides—34x18 panel body seat and dash, 14 and 20 in. wood wheels, iron hub caps and bands, heavy welded tires, shaved spokes, iron braces, 9-16 in. round steel axle, removable sideboards.
F93—1 in crate, 59 lbs. . . . Each, $6.50

JUNIOR SIZE WOOD WAGONS

Hardwood body and gearing, natural varnish finish, fancy solid turned wood wheels, red trim body and wheels.

F76—"Junior Coaster," body 24x11, wheels 7 in., 2 in crate . . . . . Each, $1.90
(Total $3.80)

F72—"Bo-Peep," body 18x8¼ in., wheels 4½ in., 4 in carton. . . . . Each, $1.50
(Total $6 00)

"THE OVERLAND" COASTERS

Red enameled hardwood seat and handle bars, fork steering gear and wheel supporters are made of the best steel, green enameled rubber tires, steel wheels.

Baby Coaster—Length 30 in., ht. 16½, ht. of seat 8½ in., seat 14½x7½, wheels 6 in., 6 spokes, ⅝ in rubber tires.
F212—2 in carton, 19 lbs. Each, $2.10
(Total $4 20)

Coaster—Length 24 in., ht. 21 in., ht. of seat 11 in. seat 9½x9½, wheels 8 in. 12 spokes ¾ in. rubber tires.
F213—2 in carton, 30 lbs. Each, $3.20
(Total $6.40)

OVERLAND SCOOTERS

Red enameled 32½x22, heavy reinforced steel frame, hardwood platform, 6 in. double spoke wheels. 2 in carton, 35 lbs.

F222—⅝ in rubber tires. . . . Each, $2.25
Total $4 50
F222 ¾ in. rubber tires . . . Each, $2 75
(Total $5 50)

EXTRA 10 IN. WHEELS FOR COASTER WAGONS

F1497

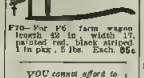
Plain Bearing Extra heavy with iron bush, 7/8 in. bent fork with 1 inch steel welded and shrunk on reinforced parallel arms.

Ball Bearing—Extra heavy with ball bearings taking off or putting on wheels spokes mortised into felloe, other specifications as F1497 pair F96 and F96 and an coaster wagon with ⅝ in. axles.

F1497—1 in pkg. . . . . Each, 65c

Fit 1-28 and F84 and all coaster wagons with ⅝ in axles.
F1487 1 in pkg. . . . . Each $0c

GOAT OR DOG SHAFT



F70—For F6 farm wagon length 42 in., width 17, painted red, black striped. 1 in pkg., 5 lbs. Each, 95c

YOU cannot afford to overlook a single quotation in this catalogue. We do not make the claim that we are lowest on every price, but we do emphatically say that on any general line of goods our buying will net you a good profit

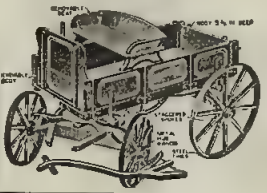
"CASH AND CARRY" EXPRESS WAGONS

Equally good as play or utility wagon.

F78—Body 17x34, depth 6-4 in., varnished natural wood, red trim, black name stencil, removable side boards and dash, wheels 10 and 14 in., shaved spokes, ⅝x1¼ flat welded tire shrunk on, ¾ in round steel axles, coaster handle gear body and wheels painted bright red with black striping. 1 in crate 50 lbs.
Each $6.00

MINIATURE FARM WAGON—Removable Body

Built like the full size wagon. Made in a very substantial manner and nicely finished



F87—Body 18x30 in. hardwood frame, seat and dash board, removable ornamented sides and ends, wheels 14 and 20 in., heavy welded tires, malleable iron hubcaps and bands, strongly ironed and braced, ½ in round steel, axle, heavy handle. 1 in crate 57 lbs.
Each, $1.75

"FLEET FOOT" COASTER WAGONS

Distributed exclusively by Butler Brothers. Strongly made, reinforced and braced at necessary points so as to stand long usage.

Selected hardwood body, natural varnish finish, red trim, 4 strong cleats across bottom of bed, heavy hickory bolster, 14 in. bright red wheels, heavy malleable iron hubs, ⅝x1¼ tires, reinforced wheel bearings, improved malleable iron steering gear, large 60th wheel, 4 steel bearer supports, hickory brake operated by lever.

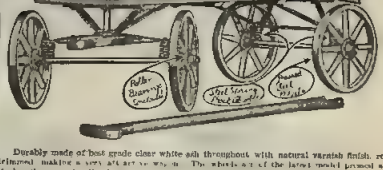
With plain bearings, malleable iron hubs, improved construction welded tires of heavy steel shrunk on.
F83—Body 32x14, 1 in crate, 34 lbs. Each $4.75
F84—Body 36x16, 1 in crate, 38 lbs. Each $5.25
F78—Body 42x18, 1 in crate, 42 lbs. Each $5.75

With ball-bearings, reinforced hubs, improved construction welded tires of steel remaining ball bearing cones, well and strong cut.
F85—Body 32x14, 1 in crate, 34 lbs. Each $5.75
F86—Body 36x16, 1 in crate, 38 lbs. Each $6.25
F88—Body 40x18, 1 in crate, 42 lbs. Each $6.75

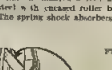
F82—Fleet Foot special, body 22x18 in., wheels 8 in. varnish finish, bright red wheels, wood hubs metal trimmed, ⅝x¾ welded tires shrunk on, heavy sound steel axles, improved malleable iron steering gear metal brakes. 2 in carton, 80 lbs.
Each $2.85

"SHERWOOD" COASTER WAGONS

With Spring Shock Absorbers and Roller Bearings. One of the best known and most popular selling wagons on the market. The spring shock absorbers and the new model pressed steel wheels make it a great favorite with the boys. You can make a nice profit at this price.



Durably made of best grade clear white ash throughout with natural varnish finish, red trimmed making a very attractive wagon. The wheels are of the latest model pressed all steel with enclosed roller bearings, patent spring shock absorbers, all steel dust axle gear. The spring shock absorbers are an exceptionally strong selling feature.



F87—Body 38x14, wheels 8 in. 1 in crate, 31 lbs. Each **$6.40**

F88—Body 34x16, wheels 10 in. 1 in crate, 34 lbs. Each, **6.90**

F89—Body 38x16, wheels 10 in. 1 in crate, 38 lbs. Each, **7.75**

"MARATHON" STEEL WAGONS

The supreme value in steel wagons—larger, better in finish and construction, guaranteed to last longer than any other make. Through our huge buying power we are able to quote lower prices than others ask for inferior grades. For proof read the features described below.

Braces, sheet steel, bodies are reinforced at top rails with extra flat dried tongue and grooved bottom boards, wooden seat risers and heavy malleable iron corners. Heavy indestructible fifth wheel (the vital point of all wagons) has special long and very strong tongue iron to prevent handle dropping below desired pulling height, special one piece front gear with extra tongue brace. Gear sale brace, front axle and tongue are well ironed. All wheels have black enameled finish hubs, bright red felloes, green hand picks of well seasoned hickory. Packed knocked down complete (except F102, F103 and F111) all parts assembled and proofread on. Four wheels and

BUILT TO LAST. Here is the proof to make your own COMPARISONS

Number	Body	Wheels	Tires	Weight per box	Each	Cwt. Price Doz.
F101	8x38	34 in.	2½ in.	80 lbs.	$9.50	$9.50
F103	9x48	36 in.	6 and 9 in.	100 lbs.	14.00	14.00
F105	11½x52	10x3 in.	10 in.	140 lbs.	19.75	19.75
F107	14x56	12x3½ in.	12 in.	170 lbs.	28.00	28.00
F109	15x30	14x30 in.	12 in.	210 lbs.	33.00	33.00
F110	16x32	14x3 in.	11 in.	230 lbs.	39.00	39.00

F112 8 size assortment including 2 each of F101, F103, F105, F107, F109 and F110 one size from each of two sizes. Packed in carrier and Assted. 6 in crate. ASST (8 varnish). $14.00

"PEERLESS" STEEL WAGONS

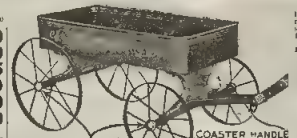
Built for service and wear. Heavier in construction than Marathon wagons. Nickeled hub caps, best hardwood handles and malleable iron corners. Red running gears, red body and seat risers, green boards, green hand picks. There are no better steel wagons made than Peerless. Comparison of sizes shown for Marathon also applies to Peerless wagons. Display a selection of sizes in your store.

Heavy steel axles, wagon gates have brass extension, extra deep red running gears and bodies of best hardwood. Improved fifth wheel has extra long tongue iron, malleable wheels with steel hub caps, long patent handle with steel reach. Packed knocked down complete, ready for assembling. Four wheels and handle in crate.

"PEERLESS" with Steel Tires	Body	Wheels	Tires	Weight per box	Each	Doz.
P105	11½x52	10 in.	1¾ in.	125 lbs.	$33.50	$382.50
P107	14x56	12 in.	2 in.	170 lbs.	40.00	456.00

"PEERLESS" with Rubber Tires	Body	Wheels	Tires	Weight per box	Each
P122	11½x52	10 in.	1¾ in.	125 lbs.	$34.50
P124	14x56	12 in.	2 in.	170 lbs.	45.00

"VICTORY" STEEL COASTER WAGON



A pop handle steel coaster wagon that will give years of rugged service and delight for boys.

P126—Box 12x24 in. with 10 in. wheels, red body, green boards, double spoke steel wheels, grey enamel running gear, strong 3-layered hardwood bottom boards, heavy steel axles, double spoke steel wheels with barrel hubs, nickeled caps, strong wood handle. In set, steel, extension coaster handle gear. 1 in crate, 30 lbs. Each $3.00

STEEL CARTS

Extra heavy steel construction, special reinforced wheel through double stamping operation, wide rim, steel axle with coaster pin cards running through steel brace, smooth hardwood handles with T grip red painted body, green top rail, with brace.

F27—Body 11x27 in., wheels 10 in., handle 36 in. Doz. $5.50

F28—Body 13x30 in., wheels 12 in., handle 36 in. Doz. $8.25

POPULAR PRICED STEEL EXPRESS WAGONS

Large size, strong body and well constructed wheels, double reinforced stamping and wide steel rims. Bodies painted red with blue stencil. Express on side, green painted running gear, strong steel axle with coaster pin cards.

F24—Body 8¼x42¼, wheels 4¾ in., heavy twisted wire handle. 1 doz. in carton. Doz. $6.25

F26—Body 9x48, wheels 4 and 7 in., with special brace full length of wagon, 34 in. hardwood handle, "T" grip. 1½ doz. in carton. Doz. $10.50

MINIATURE DEPOT OR HAND TRUCK

F30—Length 27½ in., body 9 in. wide, wheels 4 in., blue painted stamped steel cross bar and legs, red painted stamped steel cross bar and legs, red painted solid wood disc wheels and axle, natural wood handles with shaped red painted grips, 13¾x11¾ heavy steel bar, new body painted blue, gilt striped, teeth bar, special stamping for use for attaching to truck or wheelbarrow. ½ doz. in carton. Doz. $4.50

STEEL WHEELBARROWS

STAR VALUE

Made of steel, red painted body and green painted stanchions and wheel, natural hardwood handles with T grip, corded grips, extra heavy double steel wheel, pointed handles, steel wheel, pointed handles, steel wheel, pointed handles.

F32—Length overall 40½ in., 11 in. high, steel gear, wheel 14 in. 1 in. carton. Doz. $5.00

F33—Length overall, 32 in., width at grips 14 in., wheels 7 in., large container. ½ doz. in carton. Doz. $9.25

COMBINATION DEPOT TRUCK AND WHEELBARROW

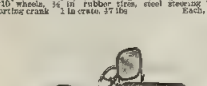
F31—Length 21½x9½, wheels 4 in., blue painted steel cross bars and legs, red painted steel disc wheels and axle, natural wood handles with shaped red painted grips 13¾x11¾ heavy steel bar, new body painted blue, gilt striped, teeth bar, special stamping for use for attaching to truck or wheelbarrow. ½ doz. in carton. Doz. $8.50

"DAN PATCH" JUVENILE AUTOMOBILES

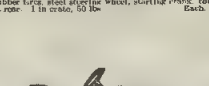
F270—37x18, strong wood frame, red body, black striped, striped racer style, black steel gears, hangers and axles, 12x18 wheels, ¾ in. rubber tires, steel steering wheel, starting crank. 1 in crate, 37 lbs. Each, $6.00

F271—37x10 lbs. body, green gear, striped racer style, black steel gears, hangers and axles, 24 in. wheels, ¾ in. rubber tires, steel steering wheel, starting crank, tool box at rear. 1 in crate, 60 lbs. Each $7.00

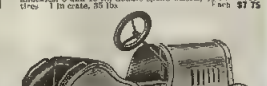
F273—40x18, red enameled body, black stripes, large painted seat, rear gasoline tank, steel steering wheel, nickel steering knuckles, 8 and 10 in., double spoke wheels, ¾ in. rubber tires. 1 in crate, 35 lbs. Each $7.75



F272—40x18, yellow body, black stripes and striping, 10x18 in. double spoke wheels, ¾ in. rubber tires, large tool box at rear and with adjustable metal windshield. Exceptionally big car for the price. 1 in crate, 55 lbs. Each $8.75



F201—14x26, red enameled body, black trim, dash, radiator front, gasoline tank, steel steering wheel, 10 & 12 in., double spoke wheels, ¾ in. rubber tires. 1 in crate, 50 lbs. Each $9.75



F275—Two seated auto, 37x32 in., red enameled body, heavily padded seats, black upholstery, rear seat faces back with step, can also be used with rear seat facing forward, has foot, hand brakes at rear, mahogany steering wheel, 12 in. wheels, ¾ in. rubber tires, nickel plated hub caps, a new tandem axle eliminating excess weight. 1 in crate, 75 lbs. Each $16.00

ANVILS

TRENTON

Forged in two pieces. Welded at waist. High grade, solid wrought tool steel faces. Fully warranted. Blacksmiths pattern.

Approximate weight each, lbs	40to49	50to59	60to69	70to79
Dimensions of face, inch	2¾x9	3x9½	3½x10	3¼x11
Length over all, inch	16	16	17	18⅜
Height, inch	8	8	8½	8½
Size of hardie hole, inch	½	¾	¾	¾
Size of pritchel hole, inch	7/15	7/16	7/16	7/16
Per pound	$0.48	.46	.45	.43¼

Approx. wgt ea, lbs	80	100	125	150	175
Dim of face, in	3½x12	3⅝x13½	3¾x15	4x16½	4¼x17
Length over all, in	20½	22½	25	27	28
Height, inch	9	10	10½	11½	11½
Size hardie hole, in	¾	¾	⅞	⅞	1
Sz pritchel hole, in	7/16	7/16	9/16	9/16	9/16
Per pound	$0.40	.40	.40	.40	.40

Aprox. weight each, lbs	200	250	300	350
Dimensions of face, inch	4½x18	4¾x20	5x21	5½x22
Length over all, inch	29½	32½	34	35½
Height, inch	12	13	14	14
Size of hardie hole, inch	1⅛	1¼	1¼	1¾
Size of pritchel hole, inch	11/16	11/16	11/16	11/16
Per pound	$0.40	.40	.40	.40

Approx. weight, each lbs	400	425	426 to 450	500
Dimensions of face, inch	6x23	6x23	6½x24	6¾x25
Length over all, inch	37½	37½	39½	41
Height, inch	15	15	15	15
Size hardie hole, inch	1⅝	1⅝	1⅝	1⅝
Size of pritchel hole, inch	11/16	11/16	11/16	13/16
Per pound	$0.40	.40	.43½	.43½

PROSPECTORS OR FARMERS

Solid body. Tool steel face, properly hardened. Slender horn, covered with tough, untempered steel.

Nos.	2	3	4	5
Approx. weight each, lbs	20	30	40	50
Dimensions of face, inch	2¼x6½	2¼x7¼	3x8¾	3x8¾
Length over all, inch	10¾	11	14	14
Height, inch	5½	6¾	7⅜	8¼
Size of hardie hole, inch	½	½	⅝	⅝
Size of pritchel hole, inch	5/16	5/16	7/16	7/16
Each	$10.50	12.00	14.00	16.00

Nos.	6	7	8	9	10
Approx. wgt ea, lbs	60	70	80	90	100
Dimen of face inch	3x9¼	3x10	3¼x10½	3¼x11	3½x12
Length over all, in	15½	16½	18	18¾	19½
Height, inch	8¼	8⅜	9⅛	9⅞	10½
Size hardie hole, in	⅝	⅝	⅝	⅝	¾
Size pritchel hole,	7/16	7/16	½	½	9/16
Each	$18.00	20 00	22 00	25.00	27.00

BORAX

Refined lump. For welding, laundry and preservative purposes.

Borax Crystalized .....Per lb., $0.23

Average weight, 100 lbs per sack. In bulk.

WELDING COMPOUND

High grade for all grades of steel.

E-Z—

Pounds in box	5	50
Per pound	$0.25	.23

In wood boxes.

High grade welding compound for all grades of steel.

Nos.	5	50
Pounds in box	5	50
Per pound	$0.25	.23

In wood boxes.

Borax-ette—

Pounds in box	5	50
Per pound	$0.25	.23

In wood boxes.

BLACKSMITHS TONGS

STANDARD

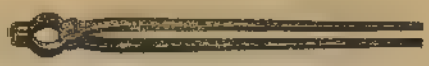
Solid wrought steel, drop forged. Oilfinish.

STRAIGHT LIP

Nos.	R 18	R 20
Length, inch	18	20
Weight per pair, lbs	2½	3
Per pair	$1.30	1.20

Nos.	R 22	R 24	R 26
Length, inch	22	24	26
Weight per pair, lbs.	3½	4	4½
Per pair	$1.30	1 35	1.40

CURVED LIP BOLT



Nos.	B 10	B 12	B 16	B 18
For iron, inch	½	⅝	1	1¼
Length, inch.	20	22	24	26
Wgt each, lbs	2¾	3	3¼	3½
Per pair	$1.50	1.50	1.60	1.60

BOWED LIP GAD

Nos.	G 20	G 22
Length, inch	20	22
Weight per pair, lbs.	3	3½
Per pair	$1.45	1.50

PICK-UP

No.	P 24
Length, inch	24
Weight per pair, lbs.	4
Per pair	$1.60

PICK

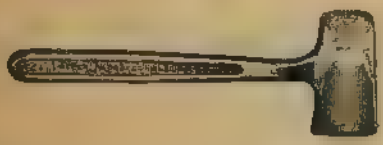
No.	P 21
Length, inch	21
Weight per pair, lbs.	3
Per pair	$1.90

FORGING

No.	FG15
Length, inch	15
Weight per dozen, lbs.	20
Per pair	$1.10

All above loose.

SOLE KNIVES
HELLER BROS.



Length, inch	8 to 8½
Weight per dozen, lbs.	11
Per dozen	$12.50

One dozen in a box.

BUFFERS
HELLER BROS.

Length, inch	5½ to 6
Weight per dozen, lbs.	6½
Per dozen	$12.00

One dozen in a box.

CONES OR MANDRELS

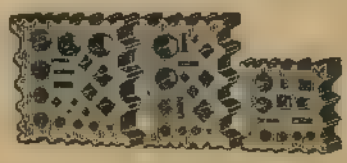
CAST IRON TAPERING PATTERN

Approximate measurements of 175-lb mandrel: Diameter at top, 2½-inch; at base, 12½-inch;, height, 43-inch; weight, 150 to 180 lbs

Approximate measurements of 300-lb mandrel: Diameter at top, 3½-inch; at base, 18-inch; height, 54-inch; weight, 250 to 300 lbs.

Per pound $0.18

SWAGE BLOCKS



Solid cast steel. Plain finish, with various shaped serrations on edges and with various shaped perforations.

Nos.	1	2	3
Size, inch	18x18x5	15x15x4	12x12x4
Weight about, lbs	308	155	100
Per pound	$0.16	.16	.16

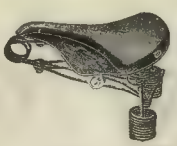
BICYCLE SADDLES

MOTOR BIKE

Five-Ply Wood Veneer Base; Finest English Russet Leather Top; Hair Padded and Neatly Formed, Cushion Springs Combined with the Universal Cone Spring; Universal Clamp prevents it turning or twisting

Each

No. 2 Length 10½ in., Width 8½ in.; Weight 4½ Lbs.....$3.00



EAGLE EASY

Stamped Steel Frame and Trusses; Cushion Springs combined with the Universal Cone Spring, all finished in Black Enamel; English Russet Leather Top; the Universal Clamp prevents it Turning or Twisting

Suitable for Heavy Riders and Hard Usage on Rough Roads.

Each

Eagle Easy—Length 10½ in., Width 8½ in., Weight 4 Lbs.....$3.00

TIP TOP

Stamped Steel Frame and Trusses; Cushion Springs combined with Universal Springs, all finished in Enamel; Black Leather Seat, well shaped for comfort and easy riding.

Each

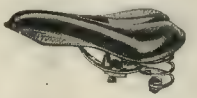
Tip Top—Length 9⅝ in.; Width 7⅛ in., Weight 3¼ Lbs.....$2.00

CUSHION COMFORT

Russet Leather Covered; Hair Felt Padded; High Back Wood Base; Cushion Comfort Springs, Black Enameled; This style of Springs gives the Maximum of Saddle Comfort and is Suitable for Heavy Riders and Hard Usage over Rough Roads.

Each

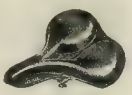
Cushion Comfort—Length 10¼ in., Width 8 in.; Weight 3½ Lbs..$1.75



Wood Base, Hair Felt Padding Covered with Selected Grain Leather, Brown Color. Fitted with Double Springs and Standard Saddle Clamp.

Each

No. 12—Length 9½ in.; Width 8 in.; Weight 2 Lbs.....$1.75



MEN'S

Nickel Plated Truss Spring; Wood Base, Russet Leather Cover, Padded and Neatly Shaped

Each

No. 5—Length 9¼ in.; Width 7⅛ in. $1.00

Weight About 1 Lb.

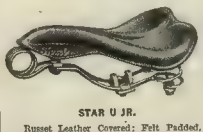
LADIES'

Nickel Plated Universal Spring; No. 1 Standard Clamp; Wood Base; Good Quality Grain Leather, Heavily Padded and Neatly Shaped

Each

No. 14—Length 8¼ in.; Width 8 in. $1.50

Weight About 2 Lbs.



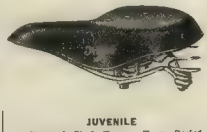
STAR U JR.

Russet Leather Covered; Felt Padded, High Back Wood Base; Universal Springs, Nickel Plated; No. 1 Standard Clamps. A Good Equipment Saddle.

Each

Star U Jr.—Length 9 in., Width 7⅛ in. $1.25

Weight About 2 Lbs.



JUVENILE

Stamped Steel Frame, Truss Spring Heavy Grain Leather Top. A Very Comfortable Saddle for the Little Folks.

Each

No. 1—Length 9 in., Width 7 in...$1.00

Weight About 1¼ Lbs.

TUNGSTEN

Trade Mark Registered

SPARK PLUG

Always on the job

The firing pins on this plug are of Tungsten steel and are guaranteed not to corrode or to burn down. The porcelains are made of imported Cornish Kaolin, baked under a heat of 2600 degrees, and is guaranteed against heat breakage. Each plug is packed in a tin container.

REGULAR

½-inch
½-inch extension
½-inch Ford Special
⅞-inch
⅞-inch extension
⅞-inch Dodge Special
⅞-inch Motorcycle
Metric
Metric Motorcycle

Each ..... $

SPECIAL FOR FORDS

½-inch

A long body, constructed so as to eliminate breakage of porcelain when removing plug from cylinder head. Recommended for Ford, Overland and Studebaker.

Each $1.00

MICA SMALL HEX

½-inch
¼-inch extension
⅜-inch
⅜-inch extension
Metric

These plugs are adapted for 4-cylinder light tractor engines and passenger car engines developing considerable amount of heat. ⅜-inch extension can be supplied with Franklin terminal, and is particularly adapted to Franklin cars.

Each $1.25

HEAVY DUTY

½-inch
½-inch extension
½-inch F. O. S. Special
½-inch extra long
⅝-inch
⅞-inch
⅞-inch extension
Metric

½ inch extra long specially adapted for Waterloo Boy and Hart-Parr tractors, and the ⅝-inch for Titan and Mogul tractors.

Each $1.25

HEAVY DUTY

⅞-inch long Buick

Recommended for Buick cars, and all others using long plugs.

Each $1.25

HEAVY DUTY

⅞-inch Dodge Special

Recommended for Dodge cars, having a longer thread than the ⅞-inch regular, giving better ignition, firing lower in the cylinders

Each $1.25

HEAVY MICA TRACTOR

½-inch
½-inch extension
½-inch extra long
¾-inch
⅞-inch
⅞-inch extension
Metric

Each $1.50

EXTRA PORCELAIN CORES

Regular	Each	$0.40
Long	"	.40
Heavy Duty	"	.60
Heavy Duty, long	"	.60

WASHING MACHINES

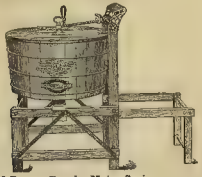
REGAL

Hand Power, High Speed

The gearing is of the simplest construction, with milled working parts. Non-tearing. Dash agitator. Tub made of Louisiana red cypress. Very easy to operate.

No. 10—Weight each, 95 lbs..... Each, $25.00

TYPHOON



Hand Power, Run by Motor Spring

Ball-bearing. Tub made of Virginia white cedar, with electric-welded hoops. Tilting wringer board and rinsing-tub stand attached.

No. 40—Weight each, 75 lbs..... Each, $20.00

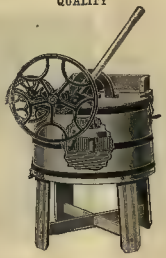
MAGIC

Water Motor

One of the most simple and successful water power machines made. Motor is made of brass. Small parts have been eliminated because they make trouble. Motor being so strong, full city pressure may be used without damage. Successful operation is obtained with only 30 lbs. water pressure.

No. 30—Weight each, 100 lbs..... Each, $40.00

QUALITY



Hand Power, High Speed

The noiseless machine. Milled gears, ball bearing. Large tub, accident proof. Easiest running machine made. Lever positions for operator to stand or sit.

No. 20—Weight each, 107 lbs..... Each, $32.50

CLOTHES WASHER

ACME

Original Vacuum

The body is made of 135-lb. bright charcoal tin plate and is put together by strong lock seam joints, no solder being used in its construction. The handles are made of selected northern beech, 1 in. diam. by 40 in. long. The short cross handle is attached by a steel bolt passing though both handles.

No. 333—Weight per dozen, 27 lbs..... Per dozen, $15.00

One dozen in a carton.

WASHING MACHINES

LAUNDRY QUEEN ELECTRIC

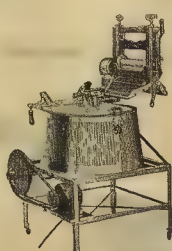
Wood Tub With Cover Up, Swinging Dolly and Swinging Wringer

A Few of the Distinct Features of the Laundry Queen

The tub is completely independent of any of the mechanism; the wringer swings to any position, out to the side of the tub or back of it. It may be used to wring from the washer to the rinse tub, and then to the bluing, then reversed, and the wash wrung into the basket, and while these wringing operations are progressing another batch of clothes is being cleansed in the machine, for the washing and wringing mechanism are entirely independent of one another.

The top, with the dolly mechanism, also swings off the tub and to any position. This is a wonderful convenience in connection with rinsing. Dropped into the rinse tub, the dolly does the necessary agitating quickly and thoroughly.

There are no bolts through the tub, no projecting parts nor unprotected gears. The bench is of angle iron, strong, rigidly braced and mounted on casters. The Laundry Queen is instantly adaptable for power other than electric by attaching a flat belt pulley to the face of the fly wheel.



Copper Tub With Cover Down, Dolly and Wringer Back to Position

No. 1-W—Wood tub. ½ h. p. motor, 110 volts, 60 cycles, alternating current. Weight, 235 lbs..... Each, $130.00

No. 1-C—Copper tub. ½ h. p. motor, 110 volts, 60 cycles, alternating current. Weight, 235 lbs..... Each, $140 00

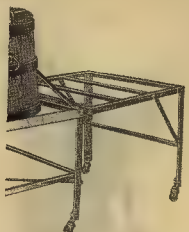
No. 3-C—Copper tub. ½ h. p. motor, 32 volts, for Delco and other similar systems. Weight, 235 lbs..... Each, $140.00

Any other voltage or current than described here must be ordered direct from factory.

Without Electric Motor

No. 02—Copper tub Same as No. 1-C, but without motor. May be driven with any independent power Equipped with combination pulley, one for ¾ in round belt and one for 1½ in. flat belt. Weight, 225 lbs... .... .. Each $130 00

EXTENSION BENCHES



For Laundry Queen

No. 102—Steel frame, to attach to Laundry Queen Nos. 1-W, 1-C and 02. Can easily be attached or detached. Weight, 14¼ lbs..... Each, $5.00

WATER PRESSURE EJECTOR

PENBERTHY HOUSEHOLD

A small, inexpensive device designed to transfer water or other liquids from sumps, washing machines, wash tubs, cellar pits, or any place where there is an accumulation, by means of ordinary water pressure. It takes the maximum amount of water from tub or sump, with minimum amount of water operating the ejector. It is handy to have around the house, saving much back-straining and lifting. As simple in its arrangements as is the common hose nozzle; all you do is to attach it to the faucet and turn on the water. No loose parts—nothing to get out of order. Is made of aluminum. A bronze cap (D) is furnished with this ejector so that after any tub or receptacle has been emptied of dirty or used water, it can be refilled by simply screwing cap on to connection (C) of ejector, and then turning on water same as you would to empty tub.

No. 1-PH ..... Each, $3.50

ADAPTER

Penberthy—Converts ⅜, ½, ⅝ and ¾ in. smooth faucets into standard threaded faucet . . . . Each, $0.75

TOOL CHESTS

FRAME—Thoroughly seasoned, properly kiln-dried selected stock. Quartered White Oak.

DRAWERS—Sides of hardwood. Fronts of Quartered Oak. Bottoms THREE PLY VENEER.

HARDWARE—Extra heavy, with polished, nickeled finish. LOCK: Sargent & Greenleaf, one hundred key change, solid brass and bronze with two, milled slot, flat rust proof keys. FLUSH RING DRAWER PULLS: Our own special design. Very convenient and practical, giving 10 per cent more drawer space than knob pulls.

FINISH—Stain, filler, primer and two coats of high grade, waterproof varnish—Dull Rub. The color on oak is a dark golden.

Inside Measurements, Inches

Chest	Short Drawers: Long	Wide	Deep	Long Drawers: Long	Wide	Deep
DD	7	6	2 drawers 3⅛ in.	18⅛	8	1 drawer 1⅝ in
DDD	8¼	8	1 drawer 2¼ in.	18⅛	6	1 drawer 1⅜ in

Each

No. DD—Length 17 in., Width 7¾ in., Height 10¾ in., Weight 13 Lbs. $12 80

No. DDD—Length 20 in., Width 7¾ in., Height 10¾ in., Weight 15¼ Lbs. 14 25

One in a Paper Carton

MACHINISTS' AND TOOLMAKERS' CASE

Solid, Highly Polished Oak throughout; Reinforced Handle; Reinforced Solid Oak Division, preventing ends from bulging and warping when kept in steam-heated store or factory. Drawers Slide Dadoed and Glued in Outside Frame instead of nailing, making them very Rigid and Permanently Fastened.

Inside Measurements, in.

Drawers...	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
Length....	8⅝	8⅝	8⅝	8⅝	8⅝	18⅛	18⅛	18⅛
Width....	1	1	1	⅞	⅞	⅞	⅞	7
Height....	1¾	2	2⅜	2⅜	1¾	1¾	1¾	3⅛

Each

No. 452—Length 20 in., Width 9½ in., Height 12 in.; Weight 25 Lbs. $16.50

Six in a Paper Carton

FRAME—Thoroughly seasoned, properly kiln-dried selected plain Oak.

DRAWERS—Sides of Hardwood. Fronts of oak. Bottoms THREE PLY VENEER. Drawer-Bearers are not inset as on all other "UNION" chests.

HARDWARE—Extra heavy, with polished, nickeled finish. LOCK: Sargent & Greenleaf, solid brass and bronze with two, milled slot, flat, rust proof key. FLUSH RING DRAWER PULLS. Our own special design. Very convenient and practical, giving 10 per cent more drawer space than knob pulls.

FINISH—Stain, filler, primer and one coat of high grade, waterproof varnish—Dull Rub. The color is a dark golden.

Inside Measurements, Inches

Long Drawers

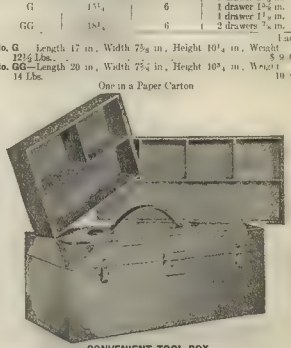
Chest	Long	Wide	Deep
G	18⅛	6	1 drawer 2⅜ in. 1 drawer 1⅝ in. 1 drawer 1⅞ in.
GG	18⅛	6	2 drawers 7⅛ in.

Each

No. G—Length 17 in., Width 7¾ in., Height 10¼ in., Weight 12½ Lbs. . . . . $ 9 00

No. GG—Length 20 in., Width 7¾ in., Height 10¾ in., Weight 14 Lbs. 10 85

One in a Paper Carton



CONVENIENT TOOL BOX

For Electricians, Steam-Fitters, Repair Men and General House Use

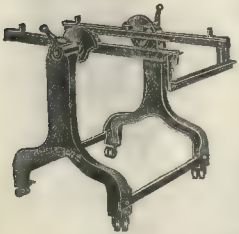
Substantial Wood Box, Covered with Olive Green Enameled Steel, Including Edges. All Edges Bound with Black Enameled Angle Iron and Box also Reinforced with Brass Plated Angles. Extra Strong Corners, Lock, Hinges and Catches, with Strong, Roomy Ring Handle. Lined in Tasty Green with Green Stained Tray 1¾ in. Deep. All Fittings Securely Riveted to Box and Rivets Clinched on Inside. Each

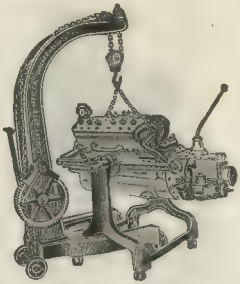
No. 404-17—Length 17 in., Width 8 in., Height 8½ in., Weight 8 Lbs. $10 00

No. 404-19—Length 19 in., Width 8 in., Height 8½ in., Weight 9½ Lbs. 12 00

Six in a Paper Carton

Kellev-How-Thomson Co. of Duluth
GARAGE SHOP EQUIPMENT





UNIVERSAL MOTOR STANDS

The Universal Motor Stand has been designed to meet all conditions. Don't use old methods in repairing motors and transmissions. The success of every efficient garage, repair shop and service station today depends on a higher grade of workmanship, which means satisfied customers.

It is needless to describe the old method of handling and repairing motors, as all garage men are familiar with the labor cost and the time lost in the old practice. Poor equipment, or not enough, is to blame in nearly every case where shop profits are lost.

The Universal Motor Stands are adapted to the present complex conditions. Garage managers and shop foremen, who expect more than the average production from the average mechanics, and accessory houses who are striving for the combination of high quality with low cost, should first study the Universal Motor Stand, as they will find developed in them a simplicity that makes them producers in the hands of all users. Such a Motor Stand is an asset at all times.

In motor building and assembling, the Motor Stand meets every requirement. It is a Universal Stand, and is designed to handle all internal combustion motors, standardized trucks and tractor motors of three-point suspension and four-point suspension type, Ford motors, aeroplane motors, Liberty motors, marine motors and all kinds of passenger car motors and transmissions.

The Motor Stand, as you will note in the cut, is handling a twin six motor. The motor can be turned in any desired position in a circle, instantly adjusted and locked by a slight turn of a friction clamp, no pin holes to line up or adjustments to make, thus making both ends of the motor, as well as the crankcase, accessible. A mechanic can readily remove the lower crankcase and bearings may be scraped in, and rods lined up with ease, in a well-lighted position to be very easy to get at.

The Stand is properly braced and supported, and is portable, being equipped with specially designed double wheel casters, so that they can be easily taken to any part of the garage with motor in stand. The casters may be removed if the mechanic desires a stationary stand, or wishes to bolt the Motor Stand to the floor.

Motor Stands are adjustable to 36 in. in width. The cross bars do not have to be removed while lifting or placing motor on stand with floor crane. The frame of the Stand has been designed to accommodate both the high and low base portable floor crane.

It is not necessary to change the Motor Stand to fasten and handle the complete Ford Unit Plant as is the case with other stands. The Ford attachment is so designed as to securely clamp the cylinder block by means of brackets, allowing the mechanic free working space to remove the cylinder head, crankcase, transmission, crankshaft, timer gears, oil pump, and pistons. **There are no bolts to enter any delicate parts of cylinder block, and break off or strip threads, thereby letting the motor fall to the floor and cause damage.** The block can be turned in either a vertical or horizontal position or any desired angle required, and locked. All positions are rigid. Nothing to interfere with getting at any part of the motor. No shifting or changing. Everything is in easy reach of the mechanic.

A 4 in. adjustment on the friction heads will take any standardized truck, marine or tractor motor. Not necessary to make adjustment on frame legs. All required positions can be obtained by shifting friction heads.

General Dimensions

Length of Motor Support Side Rails, 48 in.
Extreme Height of Motor Stand, 39 in.
Length overall when fully extended, 48 in.
Width adjustment, from 0 in. to 36 in.
Floor Space required for Stand, 33 in by 40 in.

Width of Motor Stand, 40 in.
Net Weight of Motor Stand, 220 lbs.
Net Weight with Ford Attachment, 240 Lbs.
Shipping Weight, crated, 300 Lbs.
Stands knocked down, crated for shipment

	Each
Motor Stand Complete	$78.00
Motor Stand, less Ford Attachment	74 00

CONTINENTAL ENGINE STANDS

The Continental is a Universal Stand—that is, it will handle Ford Motors, Three-point Suspension Motors—in fact, any kind of passenger-car truck or tractor motor. It is portable, can be moved from place to place and makes every part of the motor accessible. Every stand complete. No extras to buy.

As the illustrations show, the motor is placed on the stand in the same way it is fitted in the car—assuming the natural positions as when in the car. All the necessary bolts and clamps to secure the motor to the stand are furnished as part of the complete equipment. A Ford attachment and an attachment for holding three-point suspension motors are also furnished.

After the motor has been clamped on the Continental Engine Stand, it can be completely inverted if desired, or locked in any intermediate position, so that the part of the motor which is to receive attention is brought to the proper working height.

The stand is locked in position by a small steel pin.

Each
Continental Engine Stand—39 in. High, and occupies a Floor Space of 29x36 in. $58 00
Shipping Weight, 265 Lbs.

FORD ENGINE STAND

The Stand is of Heavy Construction, many parts are built of Steel; Is portable, malleable casters being used. The complete engine is held absolutely rigid, and so firmly clamped to the Stand by a bracket on each side of the motor: There is no danger of stripping the threads at the water manifold and thereby letting the motor drop and break.

Each
Continental Ford Engine Stand—34 in. High.....$34 00
Shipping Weight, 115 Lbs.

RADIATOR STAND

The Radiator Stand is an indispensable article to the shop doing repair work, and is one of the biggest time and labor-saving devices ever made. The Clamps which are furnished are covered on the ends with rubber so as not to injure the most highly finished radiators. Is portable, malleable casters being used. Occupies a floor space of 24x26 in.

Each
Continental Radiator Stand—34 in. High.....$27 50
Shipping Weight, 150 Lbs.

WASHING MACHINES

UNIVERSAL ELECTRIC

Cabinet Type, Reversible Wringer

Cabinet handsomely enameled in battleship gray. Removable top, all moving parts enclosed, all electric connections thoroughly insulated, mechanism and motor of ample capacity. Silent running cut gears, enclosed in oil, eliminating frequent oiling. Durable, sanitary, zinc cylinder, reversible type. Length, 18½ in. Diameter inside, 18 in. Weight, 19 lbs. Easily removed and cleaned. Size and construction of cylinder holes prevents possible injury to most delicate fabric. Action combines the advantages of both cylindrical and oscillating type washers. Cylinder automatically locks in position with opening at top when not operating, permitting the easy removal of washed clothes.

The cylinder revolves twice one way and then reverses, revolving twice in the opposite direction, making 18 complete revolutions per minute. There are five maple baffel strips on the inside of cylinder, which carry the clothes up until they fall back of their own weight into the hot suds. This action of hot suds surging through the clothes as they fall washes out all the dirt.

Self-draining galvanized tub. Settling zone in bottom of tub prevents sediment from being forced back into the clothes Drain cock outside of cabinet 10¾ in. from floor.

Sturdy, non-sagging, swinging wringer, reversible type. Equipped with simple safety release. Has four positions and will not operate except when locked in position. Wringer easily detached from washer. Vulcanized rubber rolls 12 in., diameter, 1¾ in. Wringer has double drain board of ample size.

This Universal Washer is guaranteed for one year against defects of material and workmanship. It will give years of faithful service if used according to directions.

No. E-1930—Six sheets capacity. Detachable 20-ft. cord, with rock-off connections. Floor space, 29½x23¾ in. Height to top of tub, 36¼ in. Shipping weight, crated, 250 lbs. ..... Each, $195.00

Orders should specify voltage and whether direct or alternating current If alternating, state number of cycles.

WASH-KOSH ELECTRIC

Cabinet Type, Reversible Wringer, Vacuum System

Cabinet white enamel, trimmed in gray. All moving parts enclosed in cabinet or under guard.

The vacuum system is simple and effective. The action is similar to the old style of hand washing on a wash board, excepting that the destructive rub is left out, while the wonderful dirt-removing suction and pressure of the vacuum are added. The Wash-Kosh will wash blankets or the daintiest laces with equal facility, cleansing both and destroying neither.

The motor and driving mechanism are assembled in one unit, making alignment of all working parts perfect; insuring quick, easy repairs. No belts to slip or to break. Two spring clutches protect motor against overload.

Swinging wringer is at convenient height for easy work. A turn of a handle starts, stops or reverses the rolls.

A simple and easy machine to handle—no cylinders to lift and clean—no ridges and grooves in tub to wear the clothes or to hold water when through washing

The vacuum plunger-cup is driven down and up at the rate of seventy times per minute. This first forces the hot suds and steam through the clothes; then as it comes up produces a natural vacuum that literally draws out the dirt.

The vacuum cup is cast of pure aluminum, and highly polished. It is 7½ in. square, so formed that in each of the four corners there are auxiliary cups. This cup gives a maximum of washing action, resulting in clothes being cleansed in a minimum time.

As the plunger reaches the lower end of its stroke, which is four inches from the bottom of the tub, it gives a quarter turn, thus rotating the clothes so that different garments come under the plunger on each stroke.

The tub is pure copper, tinned inside, of octagon shape. Because of this shape the clothes, as they are rotated, constantly are turned in toward the center, under the vacuum plunger. Settling chamber at bottom of tub catches dirtiest water.

The Wash-Kosh is a full cabinet model. Motor, gears, driving shaft and wringer drive are all inside of cabinet. Crank driving the plunger is under hood on top of machine. Because of this cabinet construction the tub is virtually double jacketed, keeping the water hot longer.

Five-year replacement of any part or parts broken because of defects in material or workmanship.

For nurseries, to wash baby's things, or to wash only a few garments, a large pail can be placed in the tub under the vacuum plunger and operated as though the tub were full.

No. 60—Seven sheets capacity. Swinging, reversible wringer with 12-in. rolls. Size of cabinet, 26½x26½ in., 33 in. high, and 48 in. to top of wringer. One-sixth H. P. electric motor. Shipping weight, crated, 225 lbs.....Each, $165.00

Orders should specify voltage and whether direct or alternating current. If alternating, state number of cycles.

VACUUM BOTTLES LUNCH KITS

The sales on vacuum bottles and lunch kits are enormous and the demand is steadily becoming greater. This increased demand is due to their extreme practicability—guaranteed to keep contents hot 24 hours and cold 48 hours. We show the best known and widely advertised makes.

"THERMOS" VACUUM BOTTLES

New improved [illegible] Bottles and Cases—guaranteed to keep contents hot 24 hours and cold 48 hours. Can be supplied with [illegible] Carefully packed. Each in corrugated carton.

"HOTAKOLD" BOTTLE

Manufactured by well known Metal Working Company & Co. Polished nickel plated outside case, heavy [illegible] lined with [illegible] finish glass inside bottle. Cork stopper with [illegible] forced neck, side and base, extra heavy metal tubes. 1 in box.

"UNIVERSAL" VACUUM BOTTLES

Manufactured by well known manufacturer & Jobber of Vacuum Bottles. Glass bottle is made in Japan of the best 2 pc. spring glass elements, assuring breakage to the minimum. Extra large cup tops. 1 in box.

1Y6905 1Y6940 1Y6945 1Y6951 1Y7009 1Y7002 1Y7003 1Y7008 1Y7013 1Y7030 1Y7035 1Y7045 1Y7088 1Y7090

Brown Enameled Case—[illegible] Each in box

1Y6905—Mfrs. [illegible] Each $1.80

Nickeled Brass and Green Enameled Case—[illegible]

1Y6940—Mfrs. [illegible] Each $2.75

1Y6945—Mfrs. 14 Pint size Each $2.35

1Y6948—Mfrs. 20 Quart size Each $3.45

Corrugated Nickel Plated—The corrugated top now molded [illegible]

1Y6951—Mfrs. [illegible] Pint Each $2.75

1Y6954—Mfrs. [illegible] Quart Each $4.10

Full Nickeled Plated Case with Extra Cups—[illegible]

1Y7009—Mfrs. [illegible] Pint size Each $3.25

1Y7012—Mfrs. 20 Quart size Each $5.25

Extra Fillers—3 sizes for any style "Thermos" bottle on page [illegible]

1Y6906—Mfrs. 15F Pint size Each $1.45

1Y6910—Mfrs. [illegible] Quart size 2 25

Workmen's Special—[illegible]

1Y7000—Mfrs. 107 [illegible] Each $1 60

Octagon "Sure Grip"—[illegible]

1Y7002—Mfrs. [illegible] Pint Each $1.85

1Y7004—Mfrs. [illegible] Quart Each $3.00

Extra Fillers—2 sizes, for any style regulation shape "Hotakold" bottle

1Y7012—(Mfrs. 113) Pint size Each $1 25

[illegible] Quart size 2 00

Green Nickeled Brass—Green enamel [illegible]

1Y7002—(Mfrs. 113) pint size, 2 cups Each $2.25

1Y7016—Mfrs. [illegible] Pint Each $3 50

Corrugated Nickel Plated Case—Nickel plated heavy brass corrugated case and cups.

1Y7008—Mfrs. [illegible] Pint Each $2 70

NO ALLOWANCE FOR BREAKAGE

[illegible]

Heavy Steel Case—Brown enamel finish polished all over nickel shoulder and cup top.

1Y7030—(Mfrs. 21) Pint size Each $2.00

1Y7035—Mfrs. [illegible] Quart size Each $3.25

Corrugated Steel Case—Green enamel finish, nickel cup and glass shoulder and top.

1Y7022—(Mfrs. 101) Pint size Each $2.55

1Y7025—Mfrs. 102 Quart size Each $4.10

Extra Fillers—2 sizes to fit all "Universal" bottles

1Y7001—Mfrs. No. 01 Pint size Each $1.85

1Y7001—Mfrs. No. 12 Quart size 2.75

Corrugated Nickel Plated Case—Corrugated [illegible] case instead of spiral, prevents bottle slipping in hands, large cup cap

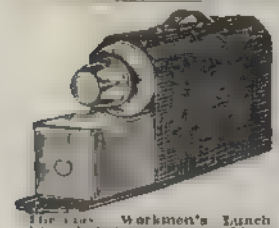
1Y7045—Mfrs. No. 01 Pint size Each $2.85

1Y7088—(Mfrs. No. 99) Quart size Each $4.30

Nickel Plated Case—Richly [illegible]

1Y7088—(Mfrs. No. 81) Pint size Each $3.25

1Y7089—(Mfrs. No. 82) Quart size Each Out



The Thermos Workmen's Lunch Kit—[illegible] No. 41 [illegible] Pint size [illegible] Each $2.60

1Y6911—Pint size [illegible] Each $3.15

1Y6914—Quart size [illegible] Each $4 90

"THERMOS" LUNCH KITS

STAR VALUE

"Thermos" Workmen's Lunch Kit—Tin case, 10x4½x7 attractive serviceable, practical heavy [illegible] finish, snatched shape rather handle, glass stopper bottle. Thermos bottle No. 11 used [illegible]

1Y6907—Mfrs. 936 1 in box Each **$3.10**

"Thermos" Workmen's Lunch Kit—Fiber case, 10¼x8x7 black embossed fiber, reinforced metal corners, nickel catch, leather handle. Box 1 pt. brown enamel. Thermos bottle No. 11 used [illegible]

1Y6958—Mfrs. 936 Each $2.95

"HOTAKOLD" LUNCH KIT

1Y7004—Mfrs. W [illegible] Metal snap locks, patent bottle holder leather handle, green enamel [illegible] bottle, handles are aluminum cap top. Each kit wrapped Each $2.65

"THERMOS" OFFICE LUNCH KIT

1Y6977—(Mfrs. 230). 7x10¼x3¼, strongly made, light wood frame, covered with black dull finish Therduc durable water and dustproof metal corners, leather strap handle, [illegible] metal catch, 1½ pts. [illegible] nickel lunch box, 1 pt. corrugated nickel Thermos" bottle No. 15 1 in box Each **$4.40**

"UNIVERSAL" LUNCH KITS

STAR VALUE

Satchel shape, 10x7x4 [illegible] leather handle. Box 1 pt. vacuum bottle, large cup top. 1 in pkg.

1Y6938—(Mfrs. 310). without trays. Each. **$3.10**

1Y6953—(Mfrs. 320), with two extra 1½ food trays. Each, **$3.45**

"HOTAKOLD" BOUDOIR SETS—Hand finished. 1 in box.

Nickeled Brass Case—Hand [illegible] silvered glass jug, ground glass stopper 1½ pt., cut glass tumbler. Nickeled rim, cut glass [illegible]

1Y7008—Mfrs 667, pt Each **$6.65**

Pink Enameled Metal Case—Nickeled handle, silvered glass jug ground glass stopper, pink enameled tray cut glass tumblers

1Y7007—(Mfrs. 151-1), pint, 10 in tray, 1 tumbler Each, **$7.00**

1Y7008—(Mfrs. 154-1) quart, 12½ in tray, 2 tumblers Each **$8.75**

Blue Enameled Metal Case—Nickeled handle, silvered glass jug, ground glass stopper blue enameled tray cut glass tumblers

1Y7009—(Mfrs. 151-3) pint 10 in tray, 1 tumbler Each **$7.00**

1Y7010—(Mfrs. 154-3) quart, 12½ in tray, 2 tumblers Each. **$8.75**

Ivory Enameled Metal Case—Nickeled handle silvered glass jug ground glass stopper 10 in tray hand painted conventional rose border design cut glass tumbler

1Y7011—(Mfrs. 151-10) pint size Each **$9.00**

THERMOMETERS

HOUSEHOLD & CLINICAL Fahrenheit Thermometers for every purpose—for household, store and outdoor use—in a variety of styles. Easy reading scales. Clinical thermometers are big sellers now.

1Y8101 1Y8115 1Y8107 1Y8108 1Y8120 1Y8[illegible] 1Y8[illegible] 1Y8[illegible] 1Y8[illegible] 1Y8[illegible]

Japanned Metal Case—7 in., with [illegible] 1Y8101 . . . doz. in carton Doz. **$1.20**

"Patriotic" Asst.—8 in. [illegible] 1Y8115—Asstd. 1 doz. in box Doz. **$1.25**

Red, White and Blue Asst.—8 in. [illegible] card 1 doz. Doz. **$1.85**

High Grade Asst.—3 styles, 8 in. [illegible] above. 1Y8108—Asstd. 6 on display card 1 doz. in carton . . . Doz. **$2.20**

Combination Thermometer and Barometer—[illegible] 1Y8116—1 doz. in box Doz **$2.25**

Household Asst.—3 colors, 8 in. [illegible] 1Y8132—Asstd. 1 doz. in counter display box . . . Doz **$2.75**

Sunrise Asst.—8 in. [illegible] 1Y8120—1 doz. in wrapper, [illegible] Doz. **$4.00**

Outdoor Thermometer—8 in. [illegible] for attaching outside of window, each in carton. 1Y8113—½ doz in box. Doz. **$6.00**

Dairy Thermometer—10 in. [illegible] 1Y8[illegible]—1 doz. in wrapper Each **75c**

Fever or Clinical Thermometers—[illegible] 1Y8124—1 min. . . . Each **$0.90**

1Y8123—¾ min. . . . 1.00

POLISHES & GROCERY SUNDRIES

Popular priced and advertised brands, the cream of the market's sellers, priced to give you the benefit of our five-house buying power. We show here staple fast selling merchandise needed in almost every type of store, items that are in everyday demand by housewives all over the country. Start your order **NOW.**

DALLEY'S "2 IN 1" SHOE POLISHES

Note—Freight prepaid on shipments for [illegible] or more. Thanks prepaid on 3 doz. of one color in cartons.

Black—No. 3 size, paste [illegible] and liquids packed 6 doz. of one color in carton

1Y7808—1 doz. in box Doz. $1.30
Gro. $15.00

Tan—No. 3 size

1Y7807—1 doz. in box Doz. $1.30
Gro. $15.00

Brown—No. 3 size, rich shade

1Y7809—1 doz. in box Doz. $1.30
Gro. $15.00

White—No. 3 size, white shoes

1Y7807—1 doz. in box Doz. $1.30
Gro. $15.00

Oxblood—Dk. tan & cordovan shoes.

1Y7812—1 doz. in box Doz. $1.30
Gro. $15.00

1Y7803-04 1Y7750

Combination—2½ oz. bottle liquid dressing and tin of paste polish gives lasting polish, preserves leather, each set in carton. 1 doz. in box

1Y7753—Black, for all black leathers
1Y7754—Tan for russet and tan shoes
} Doz. $1.30
Gro. $15.00

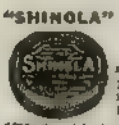
White Liquid—3 oz. bottle, cleans and whitens canvas and all white smooth leather shoes, large bottle and sponge for applying, each in carton

1Y7750—1 doz. in box..Doz. $1.30
Gro. $15.00

Self Shiner—3 oz. bottle specially recommended for women's and children's shoes requires no rubbing. Each in carton.

1Y7613—1 doz. in box. Doz. $1.30
Gro. $14.75

"SHINOLA" SHOE POLISHES



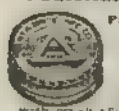
First quality wax and turpentine paste produces last-ing polish. 1 doz. in litho box

1Y7485—Black paste
1Y7487—Cordovan
1Y7478—Tan paste
1Y7474—Brown paste
} Doz. 85c

1Y7475—3 oz. cake with sponge cleans white kid and renovates all kinds of white shoes

Gro. $10.00

"STA-BRITE" SHOE POLISHES & DRESSINGS



Paste Polish—Odorless contains no turpentine or acids. Does not dry out as the polish does. Can be cleaned with water and applied with brush and rubbed into a high polish. Lithographed tins 1¾ oz. box. 1 doz. in box.

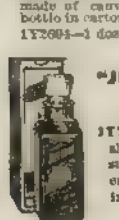
1Y2889—Black
1Y2890—Brown
1Y2891—Tan
1Y2892—Ox blood
} Doz. 84c

Black French Dressing—2 oz. bottles with felt dauber self shining restores color and luster each in carton

1Y7694—1 doz. in box Doz. 84c

White Liquid—For canvas and duck shoes and all articles made of canvas and duck, each bottle in carton

1Y7695—1 doz. in box. Doz. 84c
Gro. $9.75



"JETTINE" SHOE

1Y7841—4 oz. jet black shoe dressing, wood top stopper and sponge each in carton 1 doz. in box.... Doz. 1.10
Gro. $12.00

"CHIEFTAIN" SHOE POLISHES

White Cake Shoe Dressing—Solid cake of pure white dressing for white, buckskin and canvas shoes, sponge for applying

1Y7561—1 doz. in box. Doz. $1.15

Black French Dressing—Large bottle with red sponge, especially adapted for patent, kangaroo and vici kid leather paste and all dressing softens and preserves the leather, requires no rubbing

1Y7598—1 doz. in box. Doz. $1.05

Pure White Liquid Shoe Dressing—Large bottle, guaranteed for white buckskin or cloth shoes does not rub off, sponge for applying, each in carton

1Y7572—1 doz. in box Doz. $1.15

Black Combination—Large bottle and tin enables you to make black leather shoes, restores color and preserves leather, bottle and tin in carton

1Y7581—1 doz. in box Doz. $1.05

Tan and Russet Combination—Large bottle and tin, water proof, preserves leather, for all kinds of tan and russet leather, complete in carton

1Y7597—1 doz. in box Doz. $1.05

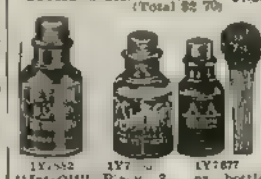
BIXBY SHOE POLISHES AND DRESSING

Satinola—Red or oxblood No. 10 can easy to apply gives satisfactory results preserves leather

1Y7871—1 doz. in box Doz. $1.19

"Royal French Self Shine Dressing—Black, 3½ oz. bottle, produces brilliant shine without rubbing, each in carton

1Y7881—2 doz. in box Doz. $1.30
(Total $2.70)



1Y7882 1Y7876 1Y7877

"Jet-Oil" Black 3 oz. bottle, contains wax and oils will not injure the finest leather. No acid.

1Y7882—2 doz. in box Doz. $1.35
Total $2.70

"Shu-Wite"—White, 3½ oz. bottle, dauber self cleans and whitens all canvas, buck or suede shoes or other articles of these materials, will not rub off.

1Y7736—2 doz. in box Doz. $1.25
(Total $2.50)

"AA" Polish—A nationally known polish, full 3 oz. bottles, each in carton.

1Y7877—3 doz. in case. Doz. $2.00
(Total $4.00)

WHITTEMORE SHOE POLISHES AND DRESSINGS

"Albo" White Paste Whitens and preserves all kinds of white shoes

1Y7887—1 doz. in box Doz. $1.20

"Peerless" Oxblood—Dk. oxblood color high grade paste. Specially recommended for army use

1Y7886—1 doz. in box Doz. Out

"Oil Paste"—No. 3 size, for any leather polishes softens and preserves quickly and easily shines water proof and rain dye, will not rub off large can, patent opener 1 doz. in box

1Y7839—Black Doz. $1.10

1Y7856 1Y7821 1Y7865

"Quick-White" Dressing—3 oz. bottle. Cleans and whitens white canvas, nubuck, suede, buck, kid and all nappy leathers, easily applied, will not rub off, each in carton

1Y7865—1 doz. in box Doz. $1.10

French Gloss—Black, 3 oz. bottle for women's and children's shoes, [illegible] each in carton

1Y7821—1 doz. in box Doz. $1.50
Gro. $16.80

"Baby Elite" Black Combination—About 2 oz. bottle, for box calf vici kid etc. each in carton

1Y7820—1 doz. in box Doz. $1.25
Gro. $14.00

1Y8005 1Y7866

"Star" Russet Combination—2¼ oz. bottle, cleans and polishes russet and tan shoes each in carton

1Y8006—1 doz. in box Doz. Out

"Lightning" Black Dye—3 oz. bottle instantly blackens all kinds of leather, cork dauber each in carton

1Y7896—1 doz. in box..Doz. $2.15

"Gilt Edge" Oil Dressing—Black 3 oz. bottle, for white and colored shoes, softens and preserves leather each in carton

1Y7823—1 doz in box Doz. $2.35

MARKET conditions affecting goods displayed on this page are singularly similar to those of most other lines. Prices [illegible] different [illegible] and two hands on the [illegible] stocks [illegible] for one reason alone—at that depleted stocks. You can be well prepared if you will take advantage of our facilities for getting the goods

STOVE POLISHES

1Y7877 1Y7892

"Enameline"—No. 4, dustless, quick brilliant

1Y7877—3 doz. in pkg. Doz. 90c

Liquid "Enamelline" No. 10 10c size—fireproof produces brilliant polish, easily applied, large metal can, screw top

1Y7892—3 doz. in carton Doz. $1.30
(Total $3.40)

1Y7622

"E-Z" Liquid—The well known rustproof liquid stove polish 6 oz. friction top tub, per tub

1Y7622—3 doz. in case Doz. $1.33
(Total $3.99)

"DRI-FOOT" WATER-PROOFING FOR SHOES

Waterproofs preserves and softens leather, dauber top for all of shoes, one application keeps shoes waterproof season after season, no need for rubbers. Will not stain shoes can be polished.

1Y7791—Enough for 2 pr. shoes. 1 doz. in box..... Doz. Out
1Y7890—½ pt. can with dauber each in carton. 1 doz. in box. Doz. $2.15

"U-ZIT" METAL POLISHES

1Y7611 1Y7612

A paste polish in cans, recommended for gold, silver, nickel, brass, enamel, ivory, etc. Litho metal cans.

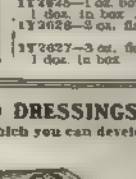
1 doz. in box
1Y7611—Small size Doz. $0.85
1Y7612—Large size 2.25

"LYKNU" FURNITURE OR AUTO POLISH

Cleans and polishes automobiles, furniture, pianos, hardwood floors and woodwork and artificially scented each carton 2 doz.

1Y7904—4 oz. size Doz. $2.15
1Y7905—8 oz. size Doz. $4.15

"MANY-USE" OIL



1Y7626 1Y7627

Nationally advertised. Prevents rust, lubricates, cleans and polishes.

1Y7625—1 oz. bottle, each in carton. 1 doz. in box..... Doz. 87c
1Y7628—3 oz. flat handy spout can Doz. $1.90
1Y7627—3 oz. flat handy spout can 1 doz. in box..... Doz. $2.10

SEWING MACHINE OILS

1Y7701 1Y8058

Med. Light Oil—3 oz., round bottle, med. light oil

1Y2701—2 doz. in box.. Doz. 75c
(Total $1.50)

"Imperial"—High grade oil, will not gum, new oval bottle. 3 doz. in case.

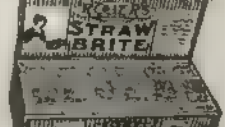
1Y8058—2 oz. Doz. 72c
(Total $2.10)
1Y9050—3 oz. Doz. 84c
(Total $2.52)
1Y8057—4 oz.. Doz. 95c
(Total $2.80)

ROGERS' "STRAW-BRITE" DYE

For straw hats, wicker furniture, grass rugs, etc. Combined liquid lye and shellac, will not injure material, chip off nor peel, gives a thoroughly waterproof finish and will not fade. Works infinitely on leather bags, shoes and footwear

Solid Colors—1¾ oz. bottle with metal cap and small brush, complete instructions in carton. 1 doz. of a color in carton in display box.

1Y6806—Shoe black...
1Y6340—Navy blue
1Y6344—Oxford
1Y6306—Cardinal red
1Y6307—Red tan
1Y6308—Brilliant green
1Y6317—Natural
1Y6318—Lt. tan
} Doz. $2.10



12 Color Asst.—Proportioned with best selling colors. Complete with window display, color card and complete instructions

1Y6310—Asst. 8 doz. in case. (Total $12.50) Doz. $2.05

12 Color Asst.—Proportioned with best selling colors, double the quantity of 1Y6310. Complete with window display, color card and complete instructions

1Y6311—Asst. 12 doz. in case. (Total $24.00) Doz. $2.00

"PUTNAM" DRY CLEANER

1Y2831—French dry cleaning process. Leaves work as fine as ordinary soap does in water for cleaning fabrics liable to be injured by water washing. Full directions with each package. 6 oz. bottle with patented stopper, each in carton

1 doz. in box..... Doz. $2.00

"LAPIN'S" IMPROVED HAT CLEANER

1Y7903—Restores the original gloss, cleans any shade straw. 1 doz. on litho display card in envelope

Doz. 75c

"ELECTRIC" SHOE POLISHES AND DRESSINGS

Dressings that give satisfaction. A line of 10c sellers in which you can develop an active business.

1Y7853 1Y7860 1Y7814

Russet—An economical bulk package of cleaner for tan russet and red leathers 8 oz. round bottle.

1Y7853—1 doz. in box.....Doz. **$1.10**

Black Gloss Dressing—4 oz. large bottle, cork stopper wood top, sponge.

1Y7814—1 doz. in box Doz. **$1.10**

Combination—Bottle of liquid dressing with sponge and box of paste in carton. 1 doz. in box.

1Y7852—Black
1Y7859—Tan
} Doz. **$1.10**

VEEDOL
OILS AND GREASES

OILS

Veedol Motor Oil is refined from pure Pennsylvania petroleum by the special and exclusive Faulkner process, which gives Veedol wonderful heat-resisting and wear-resisting qualities. The terrific heat in the engine breaks down ordinary oil and forms sediment. Repeated tests have shown Veedol to resist heat and reduce sediment 80 per cent. That means less friction, less wear on the engine, less oil expense. The highest possible quality.

Veedol Zero-Light flows readily at zero and lubricates in the coldest weather. For use in all types of water-cooled engines.

Veedol Medium possesses superior lubricating qualities when exposed to heat and flows readily in cold weather.

Veedol Heavy has superior heat-resisting qualities and is particularly suitable for use in water-cooled engines which operate at high temperatures.

Veedol Special Heavy has been developed for use in water-cooled engines which operate at high temperatures. Many Fordson and International Harvester tractor dealers recommend it. Many other tractor manufacturers have found by exhaustive tests that Veedol Special Heavy holds up under the most severe conditions and prevents the excessive dilution of lubricating oil in the crank case.

Veedol Tractor Worm Drive is especially adapted for lubrication of Fordson and other worm drives.

Veedol Extra Heavy is manufactured especially for use in air cooled motorcycle engines and some heavy duty engines.

Veedol Trans-Gear is a semi fluid oil for the lubrication of differential and transmission mechanisms where the housings are sufficiently tight to retain it.

SAN FRANCISCO, FRESNO OR SACRAMENTO L. C. L. DELIVERY

	Drums ¼ drums per gallon	5-gal cans per gallon	1-gal can can	½-gal can can
Veedol Zero-Light	$	$1 45	$7 25	$1 72	....
Veedol Medium	1.32	1.45	7.25	1.72	.99
Veedol Heavy	1.32	1.45	7.25	1.72	.99
Veedol Special Heavy	1.47	1.60	8.00	1.87	1.06
Veedol Tractor Worm Drive	1.59	1 65	8.25	1.92	1 38
Veedol Extra Heavy	1.82	1 95	9 75	2.22	1 24
Veedol Trans-Gear	1.02	1.15	5.75	1.42	....

NEVADA, ARIZONA AND NEW MEXICO POINTS DELIVERY C. L. SHIPMENTS ONLY

Advance 5 cents per gallon list over San Francisco and Fresno delivery prices.

Drums contain about 55 gallons, ¼ drums about 15 gallons. Five-gallon cans, 2 in a case; 1-gallon cans, 12 in a case; ½-gallon cans, 24 in a case. No charge for package.

Empty drums and quarter drums can usually be returned, and credit will be given at market rates if they are in good condition. **Obtain permission and shipping instructions before returning.**

GREASES

SAN FRANCISCO, FRESNO OR SACRAMENTO L. C. L. DELIVERY

Veedol Gear Compound retains practically the same consistency throughout the full range of operating temperatures and adheres to such a degree to rotating parts as to assure their efficient lubrication. The leakage of this lubricant, by way of joints in the mechanisms, is less than that of any other.

Veedol Cup Grease is offered in three grades: Light, medium and heavy.

Veedol Graphite Grease may also be obtained in three grades: Light, medium and heavy and is recommended for the lubrication of water pump shafts and spring suspension leaves.

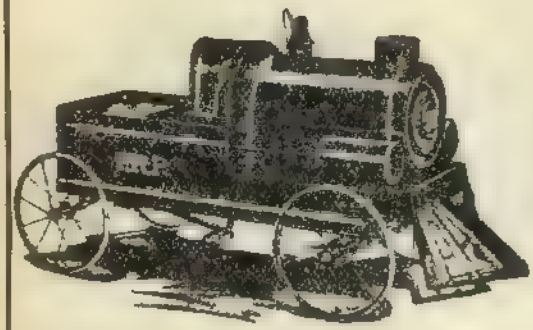
	½ barrel per lb	25-lb can can	10-lb can can	5-lb can can	1-lb can can
Veedol Gear Compound	$0.17	$4.04	$2.00	$1.03	$....
Veedol Cup Grease, medium	.17	4.04	....	1.03	.25
Veedol Graphite Grease, medium	....	4.04	2.00	1.03	.25

Note—Oils and greases mix in cartons.

Half barrels contain about 240 lbs. Twenty-five-lb cans, one in a case; 10-lb cans, six in a case; 5-lb cans, twelve in a case; 1-lb cans, thirty-six in a case.

LOCOMOTIVE

"VELO-KING"



Body, 49 x 13 Ins., Including the Cow-catcher. It is Fitted with Bell, Cord and Adjustable Seat. Finish is Black with Silver Striping. Number Painted Front of Boiler. Wheels are 12 Ins. in Diameter, Enameled Black and Fitted with ¾-in. Rubber Tires. Gear Deserves Special Mention Because of Its Easy Running Qualities. Finished in Black.

	Each	
No. 100—Shipping Weight, 65 Lbs.	$41 25	$33.30

One in a crate.

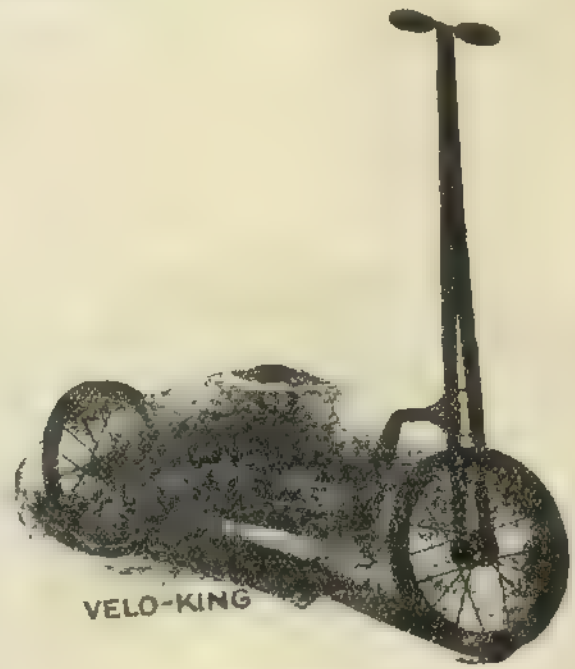
VELOCYCLES

"VELO-KING"

Steel Frame and Steering Column. Finished in Black Enamel Tinned Wheels, 8 Ins. in Diameter; ⅜-in Tires. Black Enameled Grips, Brass Ferrules. Length, Over All, 31½ Ins Width, Over All, 6 Ins. Footboard, 11½ x 6 Ins., Natural Finish, Black Striping

	Per Dozen	
No. 125—Wt., Per Dozen, 200 Lbs	$110.00	$50.95

Half dozen in a crate, knocked down



BALL BEARING

Steel Frame and Steering Column. Finished in Maroon Enamel, Striped in Silver. Wheels, 9 Ins. in Diameter; 1-in. Tires; Nickel-plated Spokes Leather Wrapped Handles. Length, Over All, 31½ Ins. Width, Over All, 6 Ins. Footboard, 11½ x 6 Ins.

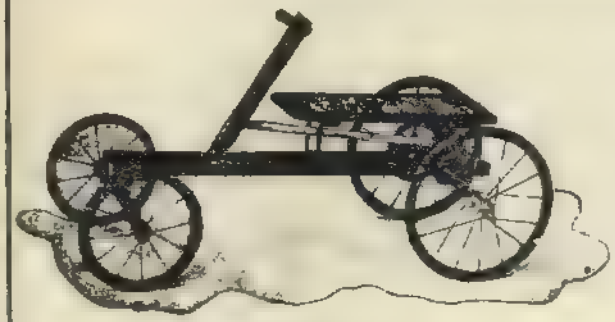
	Per Dozen	
No. 126—Wt., Per Dozen, 240 Lbs	$200 00	$108.00

Quarter dozen in a crate, knocked down.

HAND-CARS

"VELO-KING"

Reinforced at All Parts Subject to Strain. Gear Drive Construction Handles Fitted with Black Enameled Grips Brass Ferrules. Rubber Tires.



COVERED GEAR WHEELS. BALL BEARING WHEELS

Frame and Handle Selected Hardwood. Finished in Dark Maroon with Silver Striping Hardwood Natural Finished Seatboard, Attractive Design in Centre. No Bolt or Screwheads Showing. ¾-in. Tires; Enameled Wheels.

No.	212
Front Wheels, Ins.	8
Rear Wheels, Ins.	12
Length, Over All, Ins.	41
Shipping Weight, Lbs.	50
Each	$32 26
	$17.45

One in a crate

TANDEM

Frame and Handles Selected Hardwood Finished in Rich Shade of Red Striped in Yellow and Black Seatboards Finished in Green, Striped in Yellow and Black No Bolt or Screwheads Showing Can be Propelled or Steered from Either Seat ¾-in Tires, Tinned Wheels

No.	211
Front Wheels, Ins	8
Rear Wheels, Ins.	12
Length, Over All, Ins	61
Size of Seat, Ins.	11½x8
Shipping Weight, Lbs	68
Each	$32 26
	$17.45

One in a crate.

TANDEM

Steel Frame and Handles, Enameled Black Black Enameled Brass Ferrules Grips. Green Finished Seatboards, No Bolt or Screwheads showing. ¾-in Tires; Tinned Wheels.

No.	213
Front Wheels, Ins.	8
Rear Wheels, Ins.	12
Length, Over All, Ins.	55
Size of Seats, Ins.	8x12
Shipping Weight, Lbs.	50
Each	$25 78
	$13.95

One in a crate

COASTER BRAKE ATTACHMENT. BALL BEARING WHEELS. COVERED GEAR

Selected Hardwood Frame and Handle. Finished in Dark Maroon, Silver Striping. Hardwood, Natural Finish Seatboard, Attractive Design in Center No Bolt or Screwheads Showing Steel Tubing Steering Column, Auto Steering Wheel. Wood Rim Coaster Brake Controlled by Lever on Side of Car. ¾-in. Tires; Tinned Wheels

No.	214
Front Wheels, Ins.	8
Rear Wheels, Ins.	12
Length, Over All, Ins.	41
Shipping Weight, Lbs.	50
Each	$41 87
	$23.00

The Pennsylvania line is the Greatest Lawn Mower Value on the market today. The distinctive mower with the distinctive Features

TRICYCLES

"VELO-KING"

Side Rails of Seats Brightly Tinned. Seats Upholstered in Red Leatherette. Novel Seat Adjustment Controlled by Large Thumb-screw Spring Steel Seat Post. Handles Fitted with Leather Wrapped Bicycle Grips and Brass Ferrules Very Easily Propelled Pedal Motion Absolutely Correct

WITH HEAVY STEEL TIRES

No.	110
Rear Wheels, Ins.	20
Front Wheels, Ins	12
For Child, Years	3 to 6
Shipping Weight, Lbs.	30
Each	$23 95 $12.85

WITH ⅛-INCH RUBBER TIRES

No.	111
Rear Wheels, Ins.	20
Front Wheels, Ins	12
For Child, Years	3 to 6
Shipping Weight, Lbs	32
Each	$29 75 $16.05

One in a carton.

WITH ⅛-INCH RUBBER TIRES

Red Enameled Frame, Striped with Silver. Wheels are Tinned

No.	112
Rear Wheels, Ins.	20
Front Wheels, Ins	12
For Child, Years	3 to 9
Shipping Weight, Lbs.	47
Each	$34 25 $18.50

One in a wooden box.

WITH ⅛-INCH RUBBER TIRES

Wine Color Enameled Frame, Striped with Silver Wine Color Enameled Wheels

No.	113
Rear Wheels, Ins	20
Front Wheels, Ins	12
For Child, Years	3 to 9
Shipping Weight, Lbs.	47
Each	$37 72 $20.35

One in a wooden box

Wine Color Enameled Frame Nickel-plated Spokes and Hubs

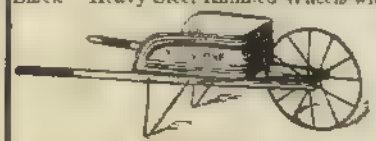
No.	114
Rear Wheels, Ins.	20
Front Wheels, Ins	12
For Child, Years	3 to 9
Shipping Weight, Lbs	60
Each	$53.24 $28.75

One in a wooden box

GARDEN BARROWS

"VELO-KING"

Black Enameled Bodies, Neatly Striped in Gold and Stenciled "Velo-King" in Gold Varnished Handles with Ends Enameled Black Heavy Steel Rimmed Wheels with Spokes of Heavy Gauge Wire. Cleated Bottoms



Nos. 35 to 38

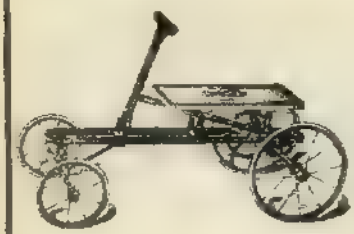
Nos.	35	36	37	38
Length, Over All, Ins.	32	37	43	50
Width, Over All, Ins	13	14	17	21
Diameter of Wheel Ins	8	10	12	14
Shipping Weight, Pounds	24	40	50	60
Per Dozen	$37 25 $20.10	41 75 $22.55	47 25 $25.50	55 75 $30.10

Six of a size in a crate

HAND-CARS

"VELO-KING"

Reinforced at All Parts Subject to Strain Gear Drive Construction. Handles Fitted with Black Enameled Grips, Brass Ferrules Rubber Tires



Steel Frame, Enameled Black Seat Attached to Frame by Screws Fastened to Cleats. Seat is Painted Red, with Gold Striping. ¼-in. Tires; Tinned Wheels.

	Full Size	Jr. Size
Nos.	118	116
Front Wheels, Ins	8	7
Rear Wheels, Ins	12	8
Length, Over All, Ins	36	28½
Size of Seat, Ins	16½x9	12x7
Shipping Weight, Lbs	25	20
Each	$18.95	13.00
	$9.15	7.00

One in a carton

Frame and Seat Selected Hardwood. Frame Finished in Red; Seat Finished in Green, Both Attractively Striped. Steel Handle. Wooden Grips, Natural Wood Finish. ¼-in. Tires; Tinned Wheels.

	122
No.	8
Front Wheels, Ins.	10
Rear Wheels, Ins	36
Length, Over All, Ins	9x6
Size of Seat, Ins	29
Shipping Weight, Lbs.	$18.00
Each	$9.70

One in a carton

COVERED GEAR WHEELS

Frame and Seat Selected Hardwood. Frame Finished in Red, Striped with Gold and Black. Natural Finish Seatboard, Neatly Striped and Decorated. No Bolts on Seatboard Visible. ¼-in. Tires; Tinned Wheels.

	Full Size	Jr. Size
Nos.	120	117
Front Wheels, Ins	8	7
Rear Wheels, Ins	12	9
Length, Over All, Ins	41	29½
Size of Seat, Ins	[illegible]	14½x7
Shipping Weight, Lbs	44	20
Each	$22.50	16.95
	$12.15	9.15

No. 120, one in a crate. No. 117, one in a carton

COASTER BRAKE ATTACHMENT, COVERED GEAR WHEELS

Frame and Handles Selected Hardwood. Finished in Red, Striped in Gold and Black. Natural Finish Hardwood Seatboard. No Screw or Bolt Heads Visible. Coaster Brake Attachment Controlled by Lever on Side ¼-in. Tires; Tinned Wheels.

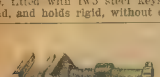
	121
No.	8
Front Wheels, Ins	12
Rear Wheels, Ins	41
Length, Over All, Ins.	3
Shipping Weight, Lbs	$23.78
Each	$13.95

One in a crate

VISES

YANKEE

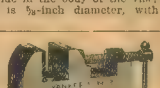
Accurately machined cast iron. May be used on side or end, and may serve as a jig on a drill press, milling machine, etc. Have hardened steel blocks with V-shaped grooves of various sizes for holding irregular shaped work at any angle required. Faces of jaws are of extra hardened steel. Sliding jaws extend through a slot one inch wide in the body of the vise, in one piece, fitted with two steel keys set in the same, making a parallel movement. Screw is ⅝-inch diameter, with Acme thread, and holds rigid, without exerting unnecessary pressure.



No.	990
Length base, inch	6
Width base, inch	2⅜
Open jaw, inch	3
Depth jaw, inch	1⅜
Width jaw, inch	2⅜
Height over all, inch	2
Length over all, inch	7½
Net weight each, lbs	2¾
Each	$6.00

Nos.	991	992	993
Length base, inch	3⅝	4⅞	7¼
Width base, inch	1⅝	2⅜	2⅝
Open jaws, inch	1½	1⅝	3½
Depth jaws, inch	⅞	1¼	1⅞
Width jaws, inch	1½	2	2¼
Height over all, inch	2⅛	2⅝	3
Length over all, inch	4⅝	6	8¾
Net weight each, lbs	1⅝	3⅝	9½
Each	$4.00	6.00	9.00

All above, one in a cardboard box.



Same as No. 993, with detachable swivel base

Nos.	1991	1992	1993
Diam swivel base, in	2½	3¼	4½
Height over all, inch	3½	4¼	5⅝
Net weight each, lbs	2⅝	5½	13⅜
Each	$6.00	8.00	14.00
Extra Bases		Each	$3.00

VICTOR JERSEY

Manufactured by Stanley Rule and Level Co.

High grade, useful tools for mechanics and experts. With loose malleable iron nuts and solid steel screws. Faces of jaws ground square. Bodies finished with brown baked japan (not air drying). Working parts highly polished.

BENCH

CLAMP BASE

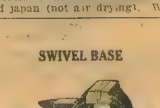
Steel Faced Jaws

Nos.	761	762
Width of jaws, inch	1½	1¾
Weight each, lbs	3	3¼
Each	$2.75	3.50
Nos.	**763**	**765**	**766**
Width of jaws, inch	2	2½	3
Weight each, lbs	3¼	5	8¾
Each	$4.00	5.50	8.00

Plain Iron Jaws

Nos.	741	742
Width of jaws, inch	1½	1¾
Weight each, lbs	3	3¼
Each	$2.25	2.75
Nos.	**743**	**745**	**746**
Width of jaws, inch	2	2½	3
Weight each, lbs	3½	5	8¾
Each	$3.50	5.50	8.00

SWIVEL BASE



Steel Faced Jaws

Nos.	772	775
Width of jaws, inch	1¾	2
Weight each, lbs	3	3½
Each	$3.50	5.00
Nos.	**775**	**776**
Width of jaws, inch	2½	3
Weight each, lbs	5½	9½
Each	$6.00	8.00

All above, one in a package.

IN SETS WITH STAND

One shelf.

Contents

Nos.	Base	Jaws
2-741	Clamp	1½-inch iron
2-742	Clamp	1¾-inch iron
2-743	Clamp	2 -inch iron
2-745	Clamp	2½-inch iron
1-746	Clamp	3 -inch iron
1-761	Clamp	1¾-inch steel
1-763	Clamp	2 -inch steel
1-772	Swivel	1¾-inch steel

No.	J12
Height of stand, inch	16¼
Width, inch	10
Length, inch	28
Weight per set, lbs	64
Set complete with stand and 12 vises	Per set $50.00

One set in a wood case

BLACKSMITHS SOLID BOX VISES

Forged steel body, jaws and hinge plate. Polished jaws, box, steel screw and sliding lever handle. Steel spring between jaws. Malleable iron bench plate.

Nos. (also weight vise, lbs)..	35	40
Length of jaw, inch.....	4	4
Depth, top jaw to top box, in	3¼	3½
Jaws open, inch.....	3¾	4
Each $19.00		20.00
Nos. (also weight vise, lbs)..	50	60
Length of jaw, inch.....	4½	4½
Depth, top jaw to top box, in	4¼	4½
Jaws open, inch.....	4½	5
Each $21.00		25.00
Nos. (also weight vise, lbs)..	70	90
Length of jaw, inch.....	5	5½
Depth, top jaw to top box, in	4¾	5¾
Jaws open, inch.....	5¼	5⅝
Each $30.00		35.00

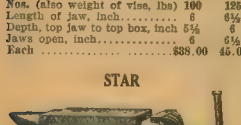
Nos. (also weight of vise, lbs)	100	125	150	180	200
Length of jaw, inch.....	6	6½	7	7½	8
Depth, top jaw to top box, inch	5½	6	6½	7⅛	7⅞
Jaws open, inch.....	6	6½	7	8	8
Each $38.00		45.00	60.00	90.00	110.00

FARMERS OVAL SLIDE VISES

Sast iron japanned Polished steel faced jaws, steel screws and malleable nuts. Sliding lever handles. Pipe jaws on all sizes except the 2½-inch.

Nos.	60	61	62	63	64	65
Width jaws, in..	2½	2⅝	3	3½	4	4½
Jaws open, in..	3½	2¾	4	4¼	4¾	4¾
Anvil, in	2x1¾	2x1½	2¼x1¼	2½x2¼	2¾x2½	3x2½
Ext igth closed	10	11	12¼	13½	16	18
Wgt each, lbs ..	8	8	13	21	30	32
Each	$5.00	6.00	7.00	9 00	12.00	15.00

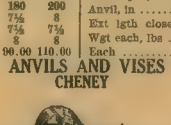
STAR VISES



Combination anvil and vise with jaws for holding pipe. Face hardened and polished. Wrought iron screw. Handle, anvil and all finished parts polished and lacquered.

No.	225
Width of jaw, inch.....	3
Jaws open, inch.....	4
Face of anvil, inch.....	3x7
Weight each, lbs.....	22
Each	$7.50

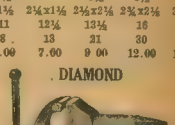
ANVILS AND VISES CHENEY



Cast iron body, painted green, with polished slide and steel faced jaws. Polished steel screw and lever handle. Rear jaw is self-adjusting. Anvil chill hardened.

Nos.	10	20	30	40
Width jaw, in	2½	3½	4	4½
Jaws open, in	3	4	5	6
Size anvil, in.	4½x2	6½x3	8x3½	8x4
Wgt each, lbs	9	25	35	50
Each	$12.00	18.00	24.00	30.00

DIAMOND VISES



Cast iron body, steel faced adjustable jaws, checkered and hardened. Face of anvil, 3x7 inches. Chilled, ground and polished. Steel screw with polished handle. Holds pipe ⅛ to 2 inches Body painted green. All bright parts lacquered.

	Less Drilling	Extra Drilling
	Attmt.	Attmt.
Nos.	115	125
Width of jaw, inch.....	4	.....
Size of opening, inch....	12	.....
Weight each, crated, lbs	45	15
Each	$15.00	6.00

REEDS HINGED VISES

Tool steel jaws. Specially tempered teeth.

Two lower jaws stationary. Upper jaw movable and reversible. Hinged joint on one side to open vise. Malleable iron latch holds frame rigid when closed

Nos.	700	70	71
Holds pipe, in.	⅛to1½	⅛to2	⅛to2½
Size base, inch	5x4	6¾x5	6¾x5½
Wght each, lbs	5	7	11
Each	$4.00	8.00	10.00
Jaws set (3)..	2.00	2.50	2.50
Nos.	72	73	64
Holds pipe, in.	⅛to3½	⅛to1¾	⅛to6
Size base, inch	9¾x6	9¾x6¾	13½x9
Wght each, lbs	14	20	48
Each	$15.00	20.00	26.00
Jaws set (3)..	3.25	4.25	7.50

PIPE VISES

TOLEDO HINGED

Malleable iron frame, japanned finish. Polished steel sliding handle and screw. Drop forged jaws. Have a gripping surface of 1⅜ inches. Will hold odd shapes, such as valves, tees and ells; also brass and nickel pipe, without marring.

No.	T1
Holds pipe, inch.....	⅛to2½
Height over all, inch.....	14½
Size of base, inch.....	5x6¾
Weight each, lbs.....	16
Each	$12.00

All above, loose.

VULCAN CHAIN

Manufactured by J. H. Williams Co.

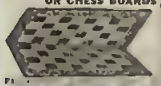
Made entirely of wrought steel drop forged saw steel tempered jaws. Hand made chains Adjustment by means of the screw Quicker adjustment gained by engaging the projecting rivets of chain with a series of bosses on base.

Nos.	V1	V2	V4
Capacity pipe, inch..	⅛to2	¼to4	¾to8
Weight each, lbs....	4	10	30
Each	$6.00	12.00	28.00

GAMES GAME BOARDS PAINTS, ETC.

Many new things as well as the good old staples that SELL. You know the importance of having a good supply of games all through the season and this year the demand will be bigger than ever. You must not [illegible]

FOLDING CHECKER OR CHESS BOARDS



F1[illegible] ... 45c

F1[illegible] ... 84c

F1[illegible] ... $1.50

Black roadstercite finish composed back varnished playing surface in red & black squares, gold outlined and border. ½ doz. in pkg. Temp. Out

CHECKER AND BACKGAMMON OUTFITS

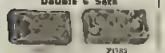
F1[illegible] ... $1.75

F1[illegible] ... 92c

WOOD DOMINOES

All full size. Each set in box

Double 6 Sets



F1[illegible]

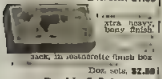
Ivorian—3½ in., polished ebony finish, contrasting white dots, nine bone backs

Doz. sets, $1.25

F1[illegible] ... $1.50

Bone backs, ebony finish

F1780—1 doz. sets in pkg. Doz. Sets, $1.80



Extra heavy, ebony finish

Box, in roadstercite finish box

Doz. sets, $2.80

Double 9 Set

Indian—1¾ in., ebony finish, counters

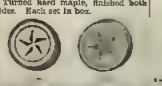
... $2.40

CHESS MEN

F1[illegible] ... $4.75

WOOD CHECKERS

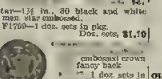
Turned hard maple, finished both sides. Each set in box.



F1[illegible] ... 84c

Star—1¾ in., 30 black and white maple star cushioned

F1760—1 doz. sets in pkg. Doz. sets, $1.10



F1[illegible] ... $1.50

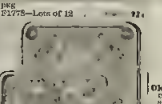
embossed crown fancy back

1 doz. sets in pkg.

NATIONALLY KNOWN GAME BOARDS

Parcheesi—Substantial reproduction and also so well known chip that pkg.

F1775—Lots of 12 ... 92c



Archaeps—57 games, 71 pc. equipment, 8 ply white maple veneer

... $4.75

Crown—67 games, 88 pc. equipment, 8 ply white maple veneer panel center, maple rims, reversible

... $4.50

Pocket Backgammon, each

F1505—3 in carton, 18 lbs. Each, $6.50

FAMOUS TALKING BOARDS

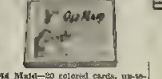
Ouija—10x18. 3 ply sycamore maple veneer board, 6½ x 6½

Each, $1.90

F1804—1 in pkg. ... Each, $1.10

JUVENILE CARD GAMES

F1[illegible] ... Doz. 45c



Old Maid—20 colored cards, up-to-

F1805—1 doz. in pkg. Doz. 65c

Lotto—18 printed cards, 90 squares 6½x9, ... Doz. 95c

Old Maid—20 large double colored comic pictures, heavy stock cards, solid color backs. 500 litho box.

F1807—1 doz in box Temp. Out

Authors—25 glazed cards, colored backs, fine photo finish, litho box

F1871—1 doz. in pkg. Doz. 35c

Lotto—24 large green & white cards, paper checking table, 90 counters

F1850—½ doz. in pkg Doz $2.25

PITCHING CARDS

gro. in box Gro. $9c

Final for asst. $2.85

DONKEY PARTY GAME

F1[illegible] ... Doz. 75c

Litho donkey, 24 numbered tails, 1 doz. in pkg. ... Doz. 75c

POPULAR CARD GAMES

Heavy enamel finish cards, fancy backs. Each set in attractive box

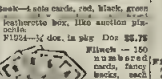
Pit—Based on exciting scenes in Stock Exchange, partitioned leatherette box, play-

... $8.75

Hook—4 sets cards, red, black, green

leatherette box, like auction pinochle

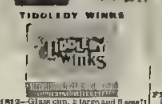
F1754—¼ doz. in pkg Doz $5.75



Flinch — 150 numbered cards, fancy backs, each in box, full directions.

F[illegible] ... doz. in pkg. ... $4.25

TIDDLEDY WINKS



F1812—Glass cup, 6 large and 6 small metal colored bone winks, 6½x9½ litho box. 1 doz. in pkg Doz. $1.25

F1813—Glass cup, 6 large and 12 small wiggs, litho box 5½x8½. 1 doz. in pkg. ... Doz. $2.25

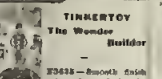
SCOTTIE PUZZLE GAME

F1810—4½x6¾, heavy cardboard box, glass top, wire cord with

... Doz. $2.75

TINKERTOY

The Wonder Builder



F3438—Smooth finish turned wood dowels small, lengths, grooved ends fit in circular hardwood chains, multicolor showing models

set in mailing carton. ¼ doz. sets in pkg. Doz. sets, $8.25

FLYING TINKER

Complete—Wood handles with cord

... $1.20

Shades Only

F3834—1 doz. pkgs. in bag. Doz pkgs $1.20

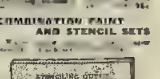
PICTURE CUTOUT

Excellent subject fine coloring.

F3805—6 plyber circus, living room, baseball, doll house, golf outfit and rod

... 98c

COMBINATION PAINT AND STENCIL SETS



F1748—6 gould oil colors, 2 brushes, screen 6¼x8¼ indestructible stencil cards, various designs, 3 thumb tacks. 1 set in box ... Sec. 75c

F1749—Six 4 in tubes, 2 brushes, 6 thumb tacks, bottle indelible medium, screen 5½x8 stencil cards 1 set in box. ... Set, $1.25

WATER COLORS

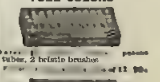
Non-poisonous indelible water col-

F1[illegible] ... 60c

artists' palette, 2

F1[illegible] ... 94c

TUBE COLORS



tubes, 2 bristle brushes

... 12 90c

F1747 Inspirano box, Sor ... 12 90c

CARDED CAMELS' HAIR BRUSH ASST

F1[illegible] ... 30c

ol ferrules, green stained wood handles.

DOLLS OF ALL KINDS

All staple sellers and novelties that are in big demand the year 'round. In particular we call your attention to the novelty lines that are having such exceptional sales the country over. Dolls are scarce and hard to get, yet with our five-house needs to buy for and big early contracts placed we have goods to sell when other markets are bare. This merchandise is all of stretch, standard quality and we guarantee that on ANY general order for dolls we can **save you money.**

NOVELTY KEWPIE DOLLS

Genuine Rose O'Neill. Light weight, composition body, flesh tinted, air brush finish, doll painted features, jointed arms.

Undressed—The most popular selling line; 1½ doz. in box

[illegible]	Doz. $9.75
[illegible]	" 15.00
[illegible]	" 17.50

"Sweater" Kewpie—Art silk bathing shirt, cap to match.

F7928—9 in. ½ doz. in box. Doz. **$14.00**
F7926—10½" 1 in box . . . Each, **$1.75**

Mohair Wig—Fashionable veil covered mohair coiffure. 1 in box.

F7930—9 in.	Each, **$1.40**
F7931—10½"	" **2.10**
F7932—12½"	" **2.60**

Ribbon Dressed—Wide flared satin ribbon skirt, ribbon hair band with bow. 1 in box.

F7927—9 in.	Each, **$1.30**
F7925—10½ in	" **2.10**
F7937 12½"	" **2.25**

F7953—9 in. assid. color satin ribbon flared skirt, sweep down trim, cap to match, ribbon wristbands. 1 in box.
Each **$1.80**

F7953—9 in., assid. color chiffon, pantalettes and bordered ruffle skirt, ribbon shoulder straps, cap to match. 1 in box. Each **$1.95**

F7957—9 in., assid. color braid trim skirt and pantalettes, silk braid shoulder straps, crochet cap, mohair wig, silk band on hair, ribbon wristbands. 1 in box.
Each, **$2.10**

Bride—White satin skirt, swan down edge lace headcloth, long net veil with wreath corsage bouquet. 1 in box.

F7954—9 in.	Each **$2.00**
F7955—10½ "	" **3.00**
F7956—12½ "	" **3.50**

F7958—12½ in., wide flared silk ribbon skirt, pantalettes, silk braid trim, braid shoulder straps, cap to match. 1 in box.
Each **$3.35**

KEWPIE DOLLS—Genuine Rose O'Neill

Undressed Kewpie 12 in., plaster model, painted eyes and features, tinted body, jointed arms, on pedestal. This Kewpie doll is a favorite wherever shown and is purchased at a moderate price. It's a big value to offer your trade.

F7021—½ doz. in box . . . . Doz **$7.25**

Cork Stuffed Kewpies—Composition head, fine wool painted features. Laced ribbon trim lawn dresses, with crepe and muslin panties, concealed hip and shoulder joints, each in box.

F7545—8 styles, 12½ in. Assid. ½ doz. in pkg . . . . . Doz. **$14.00**

F7546—12½ in., bootees celluloid cuffs. 1 in box . . . . . Each **$2.00**

BATHING GIRLS

"Miss Summertime, Jr"—7 in., standing, flesh tinted bisque finish composition, painted features, tinted bathing suit and shoes.

F7805—Painted hair. ½ doz. in box. Doz. **$7.50**

F7806—Real human hair coiffure veil covered. ½ doz. in box . Doz. **$16.00**

"Miss Summertime, Sr" 10½ in. standing flesh tinted bisque finish composition, painted features, tinted bathing suit and shoes.

F7807—Painted hair, rubber bathing cap. 1 doz. in box . . . Doz. **$11.50**

F7808—Real human hair coiffure veil covered. 1 in box . . . Each **$2.25**

"Atlantic City Belle"—7½ in. flesh composition, painted bathing costume, coat reefer and shoes. "Flirting" expression, red parasol. Each in bisque.

F7807—Painted hair, rubber bathing cap. 1 doz. in box . . . Doz. **$10.25**

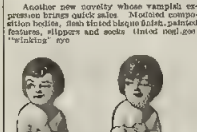
F7808—Real human hair coiffure veil covered. 1 in box . . . Each **$2.25**

"FLUFFY BUD"

F7278—7 in., flesh tinted bisque finish, painted features, pronounced eyebrows, long curly mohair wig, real human hair eyelashes, curly eyes, jointed knees, fluffy muslin skirt & pantalettes edged in lace, satin ribbon trimmed, large tussling bow on hair. Assid. blue, black, cerise, orange, white, etc. SPECIFY COLOR. 1 in box trimmed box.
Each **$3.00**

"WINKIE"

Another new novelty whose vampish expression brings quick sales. Modeled composition bodies, flesh tinted bisque finish, painted features, slippers and socks tinted red, one "winking" eye.



F7950—6 in., painted hair. ½ doz. in box. Doz. **$9.00**

F7951—6 in., mohair wig with veil. 1 in box. Each, **$1.30**

"TISS ME"

An appealing little novelty figure creation of Lily Mayer. Modeled composition bodies, flesh tinted bisque finish, painted features, crushing expression, dimpled shoulders, tinted negligee. 1 in box.

Painted Hair— ½ doz. in box
F7945—7 in. Doz **$9.00**

Mohair Wig—Veil covered coiffure.
F7946—6 in. ½ doz. in box Doz. **$12.50**
F7947—7 in. 1 in box. . . . Each, **1.30**

NOVELTY DOLL PLAQUE

F7931 [illegible] bisque head, ruffled cap, [illegible] pressed hair, [illegible] pantalettes, [illegible] ruffle, [illegible] ribbon trimmed, [illegible] wig, [illegible] satin ribbon [illegible] lace trimmed, [illegible] dress, pink, blue, [illegible] SPECIFY COLOR. 1 in box
Each **$1.50**

"SPLASH ME"

The biggest "hit" in years. Soon becomes a clever conceit. Flesh tinted bisque finished composition painted features, tinted bathing suit and shoes. 1 in box.

F7940-9

Painted Hair— ½ doz. in box. Doz
F7940—9 in. assid. silk kerchief capes **$4.50**
F7941—7 in. plaid taffeta kerchief " **10.50**

Mohair Wig—Fashionable veil covered coiffure.
F7943—9 in. ½ doz. in box . Doz. **$9.00**
F7942—7 in. 1 in box . . . Each, **1.30**

"SWEETIE" DOLLS

Chubby full composition body bisque finish, roguish expression, jointed shoulders.

"Bathing Girl" 14" to [illegible] taffeta [illegible] skirt [illegible] and bottom [illegible] to match. 1 in box
[illegible] Each **$1.65**

"Mischief" 10½ in. [illegible] skirt, lace trim, pantalettes, elastic shirred at knee, suspenders, cap to match. 1 in box.

F7782—With painted hair Each **$2.35**
F7783—With real human hair coiffure veil covered Each, **$3.10**

POPULAR PRICED DRESS DOLLS

Excellent modeled composition heads, painted features, hip and shoulder joints.

F7700

F7700—3 styles, 15½ in., composition heads, flowered dresses figured and checked percale, contrasting color yoke lace and colored braid trims, shoe feet. Assid ½ doz. in box . . . Doz. **$4.75**

F7706—3 styles, 13½ in., composition heads, solid color linene dresses with flowered set and plaid combinations, lace and pearl button trimmings, shoe feet. Assid ½ doz. in box . . . Doz. **$4.75**

F7701—3 styles, 10½ in., composition heads, striped lawn and gingham plaids combined with solid colors in smock and bolero effects, lace and stitched band trim, shoe feet. Assid ½ doz. in box . . . Doz. **$4.75**

Gorilla Tires

The inherent strength of "Gorilla" Tires means better service. Their construction is in accordance with U. S. Government specifications which have been approved and adopted for government service. Butler Brothers stand back of "GORILLA" TIRES and guarantee them for 6,000 miles —but they will deliver more. You can put your utmost confidence in "Gorilla" Tires.

Prices include U. S. Government excise tax.

RIB & GRIP TREADS

RIB TREAD TIRES

Guaranteed 6,000 Miles

Regular Clincher

No.	Size	Each
2K8820	30x3	$13.18
2K8821	30x3½	16.86
2K8823	32x4	26.85

Q. D. Clincher

No.	Size	Each
2K8823	30x5	$47.90
2K8824	32x5	51.25

Straight Side or Dunlop

No.	Size	Each
2K8825	32x3½	$20.48
2K8826	31x4	27.81
2K8827	31x4	29.08
2K8828	31x4	30.75
2K8829	33x4½	37.89

No.	Size	Each
2K8830	31x4	$39.24
2K8831	35x4½	40.67
2K8832	36x4½	41.79
2K8833	37x5	47.80
2K8834	37x5	51.35

GRIP TREAD TIRES

Guaranteed 6,000 Miles

Regular Clincher

No.	Size	Each
2K8840	30x3	$13.60
2K8841	30x3½	17.40
2K8842	31x4	27.01

Q. D. Clincher

No.	Size	Each
2K8843	32x4	$43.13
2K8844	37x5	62.71

Straight Side or Dunlop

No.	Size	Each
2K8845	32x3½	$21.11
2K8846	32x4	28.01
2K8847	33x4	29.81
2K8848	34x4	31.55
2K8849	33x4½	36.53

No.	Size	Each
2K8850	31x4	$40.22
2K8851	34x4½	41.83
2K8852	36x4½	42.88
2K8853	35x5	49.13
2K8854	37x5	62.71

BUTLER BROTHERS' 6,000 MILE GUARANTEE

We guarantee all "GORILLA" tires bearing a serial number to be free from imperfections in fabric, workmanship and stock, for a period of 6,000 miles. Should any tire prove defective within the guaranteed mileage, we will, on receipt of the tire, allow the purchaser a credit on a new tire, based on the number of miles the defective tire has been used. Tires are to be returned to us prepaid. If upon examination we find the tire has been tampered with, repaired or retreaded, no credit will be allowed.

When tires are replaced by us, charges will be made at the time the tires are delivered for such amounts as in our judgment will compensate for the services rendered by such replaced tires.

Tires worn out in usual or unusual services, abused knowingly or unknowingly misused, injured through accident or design, are not covered by this guarantee. "GORILLA" tires are not guaranteed to give any definite number of service and we do not claim that they are necessarily the best by any particular test, but we do claim that they are the most reliable tires for their price on the market, and we refer to the users of those tires which tires are not manufactured or who tires not been tires entered in the press as recommended by us

6,000 MILES

RIB TREAD

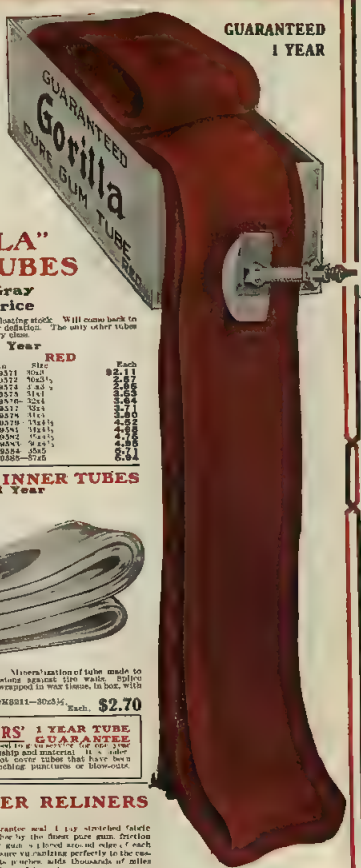
GRIP TREAD

BUTLER BROTHERS, 495 and 497 BROADWAY, NEW YORK

Tubes and Reliners

GUARANTEED 1 YEAR

GUARANTEED 1 YEAR



"GORILLA" INNER TUBES

Red and Gray the Same Price

Only pure gum rubber is used and it is 95% floating stock. Will come back to within 5% of their original size and shape after deflation. The only other tubes that will do this are priced way up in the luxury class.

Guaranteed 1 Year

GRAY			RED		
No.	Size	Each	No.	Size	Each
2K9351	30x3	$2.11	2K9371	30x3	$2.11
2K9352	30x3½	2.67	2K9372	30x3½	2.67
2K9354	32x3½	2.95	2K9374	32x3½	2.95
2K9353	31x4	3.53	2K9373	31x4	3.53
2K9356	32x4	3.64	2K9376	32x4	3.64
2K9357	34x4	3.71	2K9377	34x4	3.71
2K9358	33x4	3.80	2K9378	33x4	3.80
2K9360	35x4	4.52	2K9379	35x4½	4.52
2K9361	34x4½	4.58	2K9381	34x4½	4.58
2K9362	35x4½	4.76	2K9382	35x4½	4.76
2K9363	36x4½	4.95	2K9383	36x4½	4.95
2K9364	35x5	5.71	2K9384	35x5	5.71
2K9365	37x5	5.94	2K9385	37x5	5.94

"UNIVERSAL" RED INNER TUBES

Guaranteed 1 Year

Wall-Guide fr m Gr de latex rubber. Mineralization of tube made to effectively withstand heat and abrasion against tire walls. Spliced vulcanized to a feather edge. Each wrapped in wax tissue, in box, with guarantee.

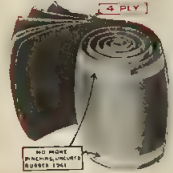
2K9310—30x3. Each, **$2.40** | 2K9311—30x3½. Each, **$2.70**

BUTLER BROTHERS' 1 YEAR TUBE GUARANTEE

GORILLA TUBES are guaranteed to give satisfactory service for one year and against all defects of workmanship and material. It is understood that this guarantee will not cover tubes that have been rendered unserviceable due to pinching punctures or blow-outs.

"STICKTITE" FABRIC AND LEATHER RELINERS

Fabric—The most practical and durable reliners on the market. For resistance against punctures they have no equal. The increased service rendered will more than pay the difference in cost. 1 in carton.



4K9470—30x3	Each,	$3.50
4K9471—30x3½	"	3.75
4K9472—32x3½	"	4.15
4K9473—31x4	"	4.50
4K9474—32x4	"	4.70
4K9475—33x4	"	4.95
4K9476—34x4	"	5.25
4K9477—35x4½	"	6.00
4K9478—36x4½	"	6.20

Leather—A guaranteed seal 4 ply stretched fabric base, together by the finest pure gum friction layer of raw gum, shaved around edges, each rel. er to insure vulcanizing perfectly to the casing, prevents pinches, adds thousands of miles to wear ratings. 1 in carton.

4K9481—30x3	Each,	$1.75
4K9482—30x3½	"	2.10
4K9483—32x3½	"	2.25
4K9484—31x4	"	2.65
4K9485—32x4	"	2.90
4K9486—33x4	"	3.10
4K9487—34x4	"	3.20
4K9488—34x4½	"	3.50
4K9489—35x4½	"	3.65
4K9490—36x4½	"	3.80
4K9491—37x4½	"	3.95

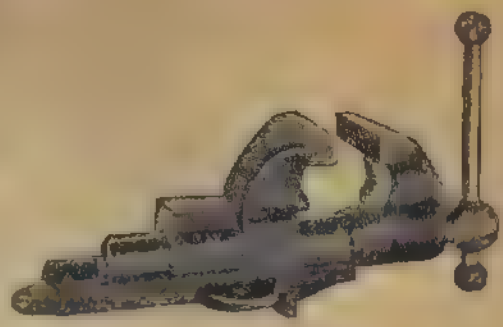
BLACKSMITHS SOLID BOX VISES

Forged steel body, jaws and hinge plate. Polished jaws, box steel screw and sliding lever handle. Steel spring between jaws. Malleable iron bench plate.

Nos. (also weight vise, lbs)	85	40
Length of jaw, inch	4	4
Depth, top jaw to top box, in	3¼	3½
Jaws open, inch	3⅜	4
Each	$19.00	20.00
Nos. (also weight vise, lbs)	50	60
Length of jaw, inch	4¼	4½
Depth, top jaw to top box, in	4¼	4½
Jaws open, inch	4½	5
Each	$21.00	25 00
Nos. (also weight vise, lbs)	70	90
Length of jaw, inch	5	5⅓
Depth, top jaw to top box, in	4¾	5⅛
Jaws open, inch	5¼	5¾
Each	$30 00	35 00

Nos. (also weight of vise, lbs)	100	125	150	180	200
Length of jaw, inch	6	6½	7	7½	8
Depth, top jaw to top box, inch	5½	6	6½	7⅜	7⅛
Jaws open, inch	6	6½	7	8	8
Each	$38.00	45 00	60.00	90.00	110.00

FARMERS OVAL SLIDE



Cast iron japanned. Polished steel faced jaws, steel screws and malleable nuts. Sliding lever handles. Pipe jaws on all sizes except the 2½-inch.

Nos.	60	61	62	63	64	65
Width jaws, in	2½	2¾	3	3½	4	4½
Jaws open, in	3½	2¾	4	4¼	4½	4¾
Anvil, in	2x1½	2x1½	2¼x1½	2½x2⅛	3¾x2⅛	3x2⅛
Ext lgth closed	10	11	12¼	13½	16	18
Wgt each, lbs	8	8	13	21	30	32
Each	$5.00	6.00	7.00	9 00	12.00	15.00

ANVILS AND VISES

STAR

Combination anvil and vise with jaws for holding pipe. Face hardened and polished. Wrought iron screw. Handle, anvil and all finished parts polished and lacquered.

No.	$ 225
Width of jaw, inch	3
Jaws open, inch	4
Face of anvil, inch	3x7
Weight each, lbs	22
Each	$7 50

CHENEY

Cast iron body, painted green, with polished slide and steel faced jaws. Polished steel screw and lever handle. Rear jaw is self-adjusting. Anvil chill hardened.

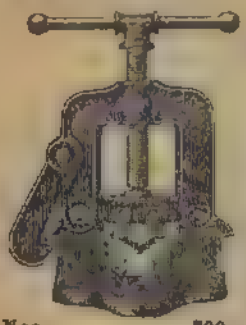
Nos.	10	20	30	40
Width jaw, in	2½	3½	4	4½
Jaws open, in	3	4	5	6
Size anvil, in.	4½x2	6½x3	8x3½	8x4
Wgt each, lbs	9	25	35	50
Each	$12.00	18.00	24.00	30.00

DIAMOND

Cast iron body, steel faced adjustable jaws, checkered and hardened. Face of anvil, 3x7 inches. Chilled, ground and polished. Steel screw with polished handle. Holds pipe ¼ to 2 inches. Body painted green. All bright parts lacquered.

	Less Drilling Attmt.	Extra Drilling Attmt.
Nos.	115	125
Width of jaw, inch	4	
Size of opening, inch	12	
Weight each, crated, lbs	45	15
Each	$15 00	6 00

REEDS HINGED



Tool steel jaws. Specially tempered teeth.

Two lower jaws stationary. Upper jaw movable and reversible. Hinged joint on one side to open vise. Malleable iron latch holds frame rigid when closed

Nos.	700	70	71
Holds pipe, in.	⅛to1½	⅛to2	⅛to2½
Size base, inch	5x4	6¾x5	6¾x5½
Wght each, lbs	5	7	11
Each	$4.00	8.00	10.00
Jaws set (3)	2.00	2.50	2.50
Nos.	72	73	74
Holds pipe, in.	⅛to3½	⅛to4½	⅛to6
Size base, inch	8¼x6	9¾x6¾	13½x9
Wght each, lbs	14	20	48
Each	$15.00	20 00	26.00
Jaws set (3)	3.25	4.25	7.50

PIPE VISES

TOLEDO HINGED

Malleable iron frame, japanned finish. Polished steel sliding handle and screw. Drop forged jaws. Have a gripping surface of 1⅝ inches. Will hold odd shapes, such as valves, tees and ells; also brass and nickel pipe, without marring.

No.	T 1
Holds pipe, inch	⅛to2½
Height over all, inch	14½
Size of base, inch	5x6¾
Weight each, lbs	16
Each	$12.00

All above, loose.

VULCAN CHAIN

Manufactured by J. H. Williams Co.

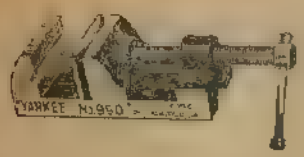
Made entirely of wrought steel drop forged saw steel tempered jaws. Hand made chains. Adjustment by means of the screw. Quicker adjustment gained by engaging the projecting rivets of chain with a series of bosses on base.

Nos.	V 1	V 2	V 4
Capacity pipe, inch	⅛to2	⅛to4	⅜to8
Weight each, lbs	4	10	30
Each	$6.00	12.00	28.00

VISES

YANKEE

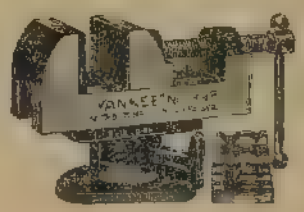
Accurately machined cast iron. May be used on side or end, and may serve as a jig on a drill press, milling machine, etc. Have hardened steel blocks with V shaped grooves of various sizes for holding irregular shaped work at any angle required. Faces of jaws are of extra hardened steel. Sliding jaws extend through a slot one inch wide in the body of the vise, in one piece fitted with two steel keys set in the same, making a parallel movement. Screw is ⅝-inch diameter, with Acme thread, and holds rigid, without exerting unnecessary pressure.



No.	990
Length base, inch	6
Width base, inch	2⅜
Open jaw, inch	3
Depth jaw, inch	1⅜
Width jaw, inch	2⅜
Height over all, inch	2
Length over all, inch	7¼
Net weight each, lbs	3¾
Each	$5.00

Nos.	991	992	993
Length base, inch	3⅝	4⅞	7¼
Width base, inch	1½	2	2¾
Open jaws, inch	1½	1⅞	3⅛
Depth jaws, inch	⅞	1¼	1⅞
Width jaws, inch	1½	2	2¾
Height over all, inch	1⅛	2⅛	3
Length over all, inch	4⅝	6	8¾
Net weight each, lbs	1⅝	3⅝	9⅛
Each	$4.00	6.00	9.00

All above, one in a cardboard box.



Same as No. 993, with detachable swivel base

Nos.	1991	1992	1993
Diam swivel base, in	2½	3¼	4½
Height over all, inch	3⅛	4⅛	5¾
Net weight each, lbs	2⅜	5½	13⅜
Each	$6.00	8.00	14.00
Extra Bases	Each	$3.00	

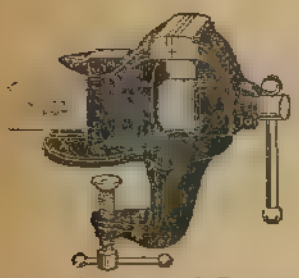
VICTOR JERSEY

Manufactured by Stanley Rule and Level Co.

High grade useful tools for mechanics and experts. With loose malleable iron nuts and solid steel screws. Faces of jaws ground square. Bodies finished with brown baked japan (not air drying). Working parts highly polished.

BENCH

CLAMP BASE



Steel Faced Jaws

Nos.	761	762
Width of jaws, inch	1½	1¾
Weight each, lbs	3	3¼
Each	$2 75	3.50

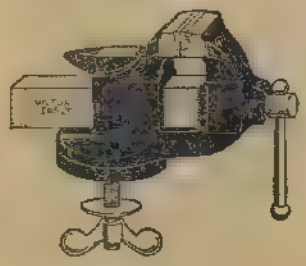
Nos.	763	765	766
Width of jaws, inch	2	2½	3
Weight each, lbs	3½	5	8¾
Each	$4.00	5.50	8.00

Plain Iron Jaws

Nos.	741	742
Width of jaws, inch	1½	1¾
Weight each, lbs	3	3¼
Each	$2 25	2.75

Nos.	743	745	746
Width of jaws, inch	2	2½	3
Weight each, lbs	3½	5	8¾
Each	$3.50	5.50	8.00

SWIVEL BASE



Steel Faced Jaws

Nos.	772	773
Width of jaws, inch	1¾	2
Weight each, lbs	3	3½
Each	$3.50	5.00

Nos.	775	776
Width of jaws, inch	2½	3
Weight each, lbs	5½	9½
Each	$6.00	8.00

All above, one in a package.

IN SETS WITH STAND

One shelf.

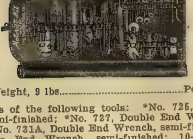
Nos.	Contents Base	Jaws
2-741	Clamp	1½-inch iron
2-742	Clamp	1¾-inch iron
2-743	Clamp	2 -inch iron
2-745	Clamp	2½-inch iron
1-746	Clamp	3 -inch iron
1-761	Clamp	1½-inch steel
1-763	Clamp	2 -inch steel
1-772	Swivel	1¾ inch steel

No.	J12
Height of stand, inch	16¼
Width, inch	10
Length, inch	28
Weight per set, lbs	64
Set complete with stand and 12 vises	Per set $50.00

One set in a wood case.

WRENCHES

VLCHEK MOTORIST KIT



No. 902—Weight, 9 lbs.....Per kit, $13.00

Consists of the following tools: *No. 725, Double End Wrench, semi-finished; *No. 727, Double End Wrench, semi-finished; *No. 731A, Double End Wrench, semi-finished; *No. 23C, Double End Wrench, semi-finished; 10-in. Stillson; Double Jaw "Ready Grip" Wrench; No. 1 Machinist Bearing Scraper; 8-oz. Machinist Ball Pein Hammer; 5-in. Electricians' Round Shank Screw Driver; 8-in. Electricians' Round Shank Screw Driver; 9-in. Machinists' All-Steel Screw Driver; 5-in. Offset Drop Forged Screw Driver; 6-in. Ebony Finished Adjustable Combination Pliers; 9/64-in. Solid Punch, 1/8-in. point, half polished; 5/64-in. Center Punch, 1/8-in. point, half polished; 3/64-in. Cold Chisel, 1/8-in. point, half polished; 1/8-in. Cold Chisel, 1/4-in. point, half polished; 1/8-in. Cape Chisel, 1/4-in. point, half polished; 5/64-in. Cotter Pin Extractor; 9-in. Ebony Finished Auto Wrench; 8-in. Flat File with Handle; 6-in. Side Cutting Plier; Spark Plug Socket Wrench; Box of Assorted Cotter Pins; 8-in. Round File; 6-in. Three-Cornered File; 5-in. Bicycle Wrench; Bundle No. 16 Copper Wire; Bundle No. 20 Copper Wire.

This set contains thirty tools which are necessary for making ordinary repairs. The tools are all "VLCHEK" high grade and fully warranted. The case is heavy waterproof canvas with harness leather retaining straps sewed and double riveted.

*These wrenches fit S. A. E. Nuts and Cap Screw Heads 1/4, 5/16, 3/8, 7/16, 1/2, 9/16 and 5/8 in., A. L. A. M. Nuts and Cap Screw Heads 5/32, 3/16, 7/32, 9/32 and 11/32 in., U. S. Std. Nuts 1/4 and 1/2 in., U. S. Std. Cap Screws 1/4, 5/16, 3/8, 7/16, 1/2, 9/16 and 5/8 in.

VLCHEK TOURIST KIT

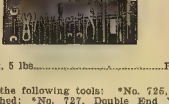
No. 906—Weight, 7¾ lbs.....Per kit, $7 75

Consists of the following tools: *No. 725, Double End Wrench, semi-finished; *No. 727, Double End Wrench, semi-finished; *No. 731A, Double End Wrench, semi-finished; *No. 23C, Double End Wrench, semi-finished, Single Jaw Wrench; 9-in. Ebony Finished Automobile Wrench; 3-in. Electricians' Round Shank Screw Driver, 5-in. Electricians' Square Shank Screw Driver; 8-in. Machinists' All-Steel Screw Driver; 7-in. Flat File with handle; 6-in. Ebony Finished Combination Plier; 9/64-in. Solid Punch, 1/8-in. point, half polished, 9/64-in Center Punch, 1/8-in. point, half polished; 1/8-in. Cold Chisel, 1/4-in. point, half polished; 1/8-in. Cape Chisel, 1/4-in. point, half polished; 5/64-in. Cotter Pin Extractor; 8-oz. Machinists' Ball Pein Hammer; No. 1 Machinists' Bearing Scraper; Box Assorted Cotter Pins.

This set contains twenty pieces. The tools are all high-grade VLCHEK Brand and fully warranted. The case is made of heavy waterproof canvas.

*These wrenches fit S. A. E. Nuts and Cap Screw Heads 1/4, 5/16, 3/8, 7/16, 1/2, 9/16 and 5/8 in., A. L. A. M. Nuts and Cap Screw Heads 5/32, 3/16, 7/32, 9/32 and 11/32 in., U. S. Std. Nuts 1/4 and 1/2 in., U. S. Std. Cap Screws 1/4, 5/16, 3/8, 7/16, 1/2, 9/16 and 5/8 in.

VLCHEK STERLING AUTO KIT



No. 907 Weight, 5 lbs.....Per kit, $4 50

Consists of the following tools: *No. 725, Double End Wrench, unfinished; *No. 727, Double End Wrench, unfinished, *No 731A, Double End Wrench, unfinished; Single Jaw Wrench; 9-in. Ebony Finished Auto Wrench; 3-in. Round Shank Electricians' Screw Driver; 4-in. Round Shank Electricians' Screw Driver; 9/64-in. Solid Punch, 1/8-in. point, half polished; 5/64-in. Center Punch, 1/8-in. point, half polished; 1/8-in. Cold Chisel, natural finish; 5/64-in. Cotter Pin Extractor, black; 6-in. Ebony Finished Combination Plier; 8-oz. Machinists' Ball Pein Hammer; Box Assorted Cotter Pins.

This assortment is made of fourteen pieces. The tools are warranted high-grade material. It is made up to supply the demand for a low-priced, serviceable outfit.

*These wrenches fit S. A. E. Nuts and Cap Screw Heads 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 in., A. L. A. M. Nuts and Cap Screw Heads 5/32, 3/16, 7/32 and 9/32 in., U. S. Std. Nuts 1/4 and 1/2 in., U. S. Std. Cap Screws 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 in.

VLCHEK TAXI KIT

No. 908– Weight, 4¼ lbs.....Per kit, $4.00

Consists of the following tools: *No. 725, Unfinished Double End Wrench; *No. 727, Unfinished Double End Wrench: *No. 731A, Unfinished Double End Wrench; 9-in. Black Auto Wrench; 4-in. Square Shank Electricians' Screw Driver; 6-in. Flat File and Handle; 6-in. Black Finish Combination Plier; 9/64-in. Solid Punch, 1/8-in. Point, Half Polished; 5/64-in. Cold Chisel, Natural Finished, 5/64-in. Cotter Pin Extractor, Black; 10-oz. Machinists' Ball Pein Hammer; Box Assorted Cotter Pins.

This set contains twelve pieces and is one of the most popular kits, as the assortment is carefully selected and the price very reasonable. The tools are all high grade.

*These wrenches fit S. A. E. Nuts and Cap Screw Heads 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 in., A. L. A. M. Nuts and Cap Screw Heads 5/32, 3/16, 7/32 and 9/32 in., U. S. Std. Nuts 1/4 and 1/2 in., U. S. Std. Cap Screws 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 in.

VLCHEK SPECIAL AUTO KIT

No. 1230—Weight, 3 lbs.....Per kit, $1.75

Consists of the following tools: 9-in Natural Finished Drop-Forged Adjustable Auto Wrench; 3-in. Electricians' Round Shank Screw Driver; 10-oz. Ball Pein Hammer; 6-in. Natural Finished Combination Plier; 5/64-in Natural Finished Cold Chisel; 3/64 in. Natural Finished Solid Punch. Packed in a Canvas Case.

WRENCHES

VLCHEK KIT FOR FORD CARS

No. 910—Weight, 3½ lbs. ..... Per kit, $2.80

Consists of the following seven pieces: 9-in. Black Automobile Wrench; 3-in. Electricians' Round Shank Screw Driver; 6-in. Black Combination Plier; No. 27, Semi-Finished Double End Wrench, 5-in. Offset Screw Driver; 8-oz. Ball Pein Hammer; ⅝-in. Cold Chisel

This set contains all the regular tools furnished with a Ford car and some additional tools very necessary in emergencies.

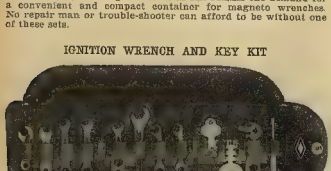
MAGNETO WRENCH KIT

No. WK-1—Weight, ¼ lb. ..... Each, $1.75

Equipped with a cam lifter and seven wrenches for adjusting the breaker-contact points on Bosch, Connecticut, Delco, Eisemann, Mea, Remy, Splitdorf and Simms Systems. Case made of well finished Keratol; folds to a convenient pocket size.

The Gilfillan Magneto Wrench Kit fulfills the demand for a convenient and compact container for magneto wrenches. No repair man or trouble-shooter can afford to be without one of these sets.

IGNITION WRENCH AND KEY KIT



No. W-6—Weight, 5 oz. ..... Each, $2.75

Handy assortment for service stations and garages, conveniently arranged in durable, waterproof kit.

Twelve parts, including Ignition Wrenches, Switch Keys, Screw Driver and Contact Aligner. The assortment includes: Wrenches for adjusting contact breaker points on Bosch, Connecticut, Delco, Eisemann, Ford, Remy, Simms and Splitdorf, Keys to fit Ford, Basco and Remy. Each wrench and key stamped with name of most popular system it will fit. Some of them can be used on more than one system.

"HAN-D" AUTO TAPPET WRENCH SET

Fitting Adjusting Nuts and Lock Nuts on Valve Tappets of practically all cars.

Contains six Thin Steel Case-Hardened Mottled Finish Tappet Wrenches, as follows:

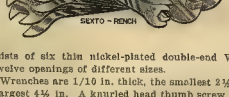
Nos.	1E	2E	3E
Opening, in.	3/8 x 3/8	7/16 x 3/8	1/2 x 3/8
Fits U. S. Stand. Nuts, in.	x 7/16	.....	1/4 x
Fits U. S. Stand. Cap Screws, in.	1/4 x	1/4 x	5/16 x
Fits S. A. E. Nuts and Cap Screws, in.	1/4	5/16	
Fits A. L. A. M. Nuts and Cap Screws, in.	1/4 x	.....	5/16
Length, in.	5	5	6
Thickness, in.	1/16	1/16	1/16

Nos.	4E	5E	6E
Opening, in.	5/16 x 5/16	11/32 x 3/8	3/8 x 3/4
Fits U. S. Stand. Nuts, in.		5/16 x	. . . .
Fits U. S. Stand. Cap Screws, in.	3/8 x 7/16	. .	x 1/2
Fits S. A. E. Nuts and Cap Screws, in.	3/8 x 7/16	.....	x 1/2
Fits A. L. A. M. Nuts and Cap Screws, in.	3/8 x	7/16 x	x 1/2
Length, in.	6	7	7
Thickness, in.	1/8	1/8	1/8

The six Wrenches are held together by a knurled head screw, making a very handy set. This set, besides being a tappet wrench set, fits all S. A. E. and A. L. A. M. Nuts and Cap Screw Heads ¼ to ½ in. inclusive, all U. S. Standard Cap Screw Heads 5/16 to ½ in. inclusive, and U. S. Standard Nuts 5/16, ⅜ and 7/16 in.

"Han-D" Auto Tappet Wrench Set ..... Per set, $1.50

SEXTO WRENCH SET



Consists of six thin nickel-plated double-end Wrenches, having twelve openings of different sizes.

The Wrenches are 1/10 in. thick, the smallest 2 1/16 in. long and the largest 4 1/16 in. A knurled head thumb screw holds the six Wrenches together when not in use.

This set will be found very handy for adjusting magneton, valve tappets, generator parts and many bolts and nuts around an automobile. It also will be found very useful around sewing machines, motorcycles and bicycles

Starting with the smallest wrench, the sizes are stamped as follows: 7/32 and ¼, 5/16 and 7/16, 11/32 and 3/8, 15/32 and 7/16, 1/2 and 9/16, 11/16 and 3/4. Besides fitting numerous small machine screw nuts, they will fit S. A. E. Nuts and Cap Screw Heads ¼, 5/16 and 3/8 in., U. S. Standard Nuts 5/16 and ¼ in. and U. S. Standard Cap Screws ¼, 5/16 and 3/8 in.

Sexto Wrench Set—Weight, ½ lb. ..... Per set, $0.75

Packed one in a carton.

CAST IRON STOVE WARE

Trade Capacity

WAGNER IMPROVED BROILERS AND COVERS

Perfection in broilers. Can be used on wood, coal, gas or gasoline stoves with equally good results.

Cast in one piece. Meats on raised channels having openings on sides for the heat to pass through. The juices cannot drip through openings but are caught and preserved by dropping in lower rim. Long wood handles. Can also be used for toasting bread

Diameter, inch	9½
Barrel contains	60
Net weight per dozen, lbs	48
Shipping weight per barrel, lbs	276
Each	$3.00

GRIDDLES

OBLONG

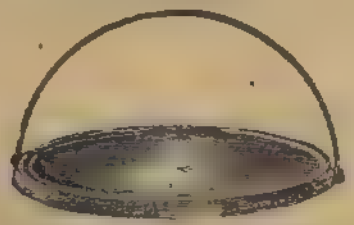
Ground, polished and handled.

Nos.	7	8	9	10
Length, inch	16½	19	21	24½
Width, inch	7¼	8½	9⅝	11½
Number in crate	24	24	24	24
Net weight each, lbs.	5½	7	11	14
Shipping weight per crate, lbs.	150	189	283	355
Each	$1.40	1.70	2.20	3.20

FLOP

No.	8 F
Diameter of lids, inch	4
Dozen in crate	1
Net weight each, lbs.	10
Shipping weight per crate, lbs.	13
Per dozen	$26.00

ROUND BAILED

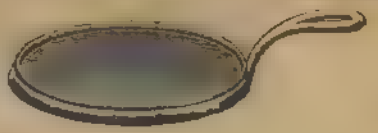


Ground and polished. Iron ears and steel wire bail

Nos.	112	114
Diameter top, inch	12	14⅜
Number in barrel	50	40
Net weight each, lbs.	5¼	7¾
Shipping weight per barrel, lbs.	295	347
Each	$1.50	1.90

GRIDDLES

ROUND HANDLED



Ground and polished. Solid handle.

Nos.	16	17	18	19	110
Diameter top, inch	7¼	8	9⅛	10⅜	11⅝
Number in barrel	150	120	100	90	60
Net weight each, lbs.	3	2½	3	4	5¼
Shipping weight barrel, lbs.	336	336	336	403	300
Each	.80 72	.80	.88	1.04	1.32

Loose

OVAL SOAPSTONE

⅞-inch thick. Oblong, bound with galvanized steel. Wire handles.

Nos.	216	218	220
Length, inch	16¾	18½	20⅛
Width, inch	8¼	9¼	10¼
Dozen in crate	½	½	½
Net weight each, lbs	8	11½	13½
Shipping weight per crate, lbs.	52	75	90
Per dozen	$33.00	36.00	48.00

ROUND SOAPSTONE

⅞-inch thick. Bound with galvanized steel. Wire handles.

One-half dozen in a crate.

Nos.	210	212	214
Diameter, inch	10	12	14
Net weight each, lbs.	5½	7¾	10½
Shipping weight per crate, lbs.	37	51	68
Per dozen	$24.00	33 00	42.00

WAFFLE IRONS

DEEP RING

For gas, gasoline and oil stoves. Japanned ring. Cold wire handles.

Nos.	77	88
Diameter pan, inch	6¾	7¾
Diameter of ring, bottom, inch	9¾	11
Dozen in barrel	2½	2
Net weight each, lbs.	9	11¼
Shipping weight per barrel, lbs.	333	330
Per dozen	$34 00	38.00

AMERICAN PATTERN

For wood or coal stoves. Japanned ring. Cold wire handles. 3 dozen in barrel.

Nos.	7	8
Diameter pan, inch	6¾	7¾
Diameter of ring, bottom, inch	9	10
Net weight each, lbs	6¾	8½
Shipping weight per barrel, lbs.	300	365
Per dozen	$29 00	32 00

CAST IRON STOVE WARE

Trade Capacity

SCOTCH BOWLS

Ground and polished inside. Round pattern with raised circular bottom Steel wire bail. Ring on side.

Nos.	2	3	4
Capacity, quarts	3	4	5
Diameter at top, inch	9⅜	10⅜	11½
Number in crate	12	12	12
Net weight each, lbs	4	5¼	7
Shipping weight per crate, lbs	52	70	90
Each	$1.40	1.64	1.84

YANKEE BOWLS

Similar to Scotch bowls, except deeper. Polished inside. Steel wire bail. Ring on side.

Nos.	22	32
Capacity, qts	4	6
Diameter top, in.	9½	10⅜
Depth, inch	5½	6
Number in crate	15	15
Net wt each, lbs	5¼	6½
Ship wt crate, lbs	100	115
Each	$1.70	1.90

KETTLES

FLAT BOTTOM

Polished inside. Steel wire bail Ring on side.

Nos.	17	18
Capacity, quarts	6	8
Diameter top, inch	9¼	9⅞
Depth, inch	6¼	6¾
No. in crate	6	6
Net wt each, lbs	7	9
Ship wt crt, lbs	50	60
Each	$2.20	2.50

ROUND BOTTOM KETTLES

Polished inside. Footed bottom. Steel wire bail. Ring on side.

Nos.	7	8
Capacity, quarts	6	8
Diameter top, inch	9½	10¾
Depth, inch	7¼	8
No. in crate	6	6
Net weight each, lbs	7½	8¾
Shipping weight crate, lbs	53	60
Each	$2.20	2.50

FLAT BOTTOM BULGED POTS

Polished inside. Ring handle on side. Steel wire bail, wood grip.

Nos.	80	90
Capacity, quarts	8	11
Diameter top, inch	10¼	11½
Depth, inch	7	7⅞
No. in crate	6	6
Net weight each, lbs	9½	11¼
Ship wght crate, lbs	65	75
Each	$3.20	3.70

ROUND BOILERS

White enameled inside. Japanned outside. Bellied round pattern with flat bottom. Steel wire bail. Tin cover, with small riveted handle.

Nos.	3	4	5	6	7	8	10	12
Cap, qts	3	4	5	6	7	8	10	12
Dia top, in.	7	7¾	8½	8¾	9	9¼	9¾	10
Depth, inch	5¼	5¾	6¼	6¾	7	7¼	7¾	8¼
No. in crate	6	6	6	6	5	5	5	5
Net wt ea. lbs	5½	6½	8	8½	9½	10¼	11½	13¼
Shp wgt crt, lbs	39	45	54	58	64	68	78	92
Each	$1 46	1.68	1.92	2.22	2.42	2.62	3.00	3 40

SAUCE PANS

White enameled inside. Japanned outside. Flat bottom. Hollow round steel handle. Tin cover, with riveted handle.

No.	13
Capacity, quarts	2
Diameter top, inch	6
Depth, inch	4½
Net weight each, lbs	4¾
Number in crate	6
Ship wgt crate, lbs	32
Each	$1 26
Inset Tin Covers	
Per dozen	$8.50

Nos.	14	15	16	18	110	112
Capacity, qts	3	4	5	6	8	10	12
Diameter top, in	7	7¾	8½	8¾	9¼	9¾	10½
Net wt each, lbs	5¾	6½	8¼	9½	11	12½	14¼
Depth, inch	5¼	5¾	6¼	6¾	7¼	7¾	8¼
No. in crate	6	6	6	5	5	5	3
Ship wgt crt, lbs	39	43	56	54	61	70	50
Each	$1 46	1 68	1.92	2.22	2.62	3.12	3.40
Inset Tin Covers							
Per dozen	$9.00	10.00	10.00	11.00	12.00	12.50	16.00

WASHBOARDS

Note the latest type soap-saving drainboard heads on the majority of these boards. This improvement has stimulated sales. All boards made of No. 1 selected seasoned hardwood dovetailed corners mortised inside frames, expansion and truss backs. Point out these superior features to your trade and profit accordingl

"Zip" ... pail ... for soak ... clothes ... crimp ... rubbing ... frame and back, dovetailed corners.

W1331—1 doz. in crate, ... lbs. ... Doz. $1.95

"Little Queen" — Washbowl, size 5¾ x 7¾, globe crimp single zinc rubbing surface, 7½x11 over all.

W3008—1 doz. in crate. Doz. $3.25

"Rub Easy" — Double board, 10x10¾ in. rubbing surface special washboard metal, plain crimp soap saving drainboard.

W 302 ... ½ doz. in crate ... Doz. $6.95

"Silver Monarch" — 11x11 in. rubbing surface, special washboard metal, spiral crimp, 5 truss back, soap-saving drainboard.

W 344 ... ½ doz. in crate 18 lbs. ... Doz. $7.75

"Maid of the Mist" ... fix ... area ... rubbing ... special ... washboard ... metal globe crimp ... truss back soap-saving drainboard.

W1349—½ doz. in crate. 20 lbs. ... Doz. $9.25

"King Bee" — Laundry ... 12x23 in. double ... rubbing surface ... special washboard metal ... coarse, plain crimp soap saving drainboard. ... special ...

W1804—½ doz. in crate. 40 lbs. Doz. ...

Top Notch"—11x1... ... rubbing surface, extra ... glass plate ... mous spiral crimp soap-saving drain board

W... ... doz. in crate 30 lbs. Doz. $8.75

"Our Special" ... 11x1... ... rubbing surface ... washboard ... tal globe crimp, ... forated rust ... soap saving drainboard, ... tool rack.

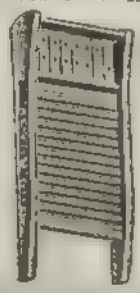
W1803—½ doz. in ... lbs. Doz. $9.90

"Universal" Laundry ... size, 12x13 in. plain globe crimp, genuine zinc rubbing surface, ventilated expansion back sanitary soap-saving drainboard.

W1342—½ doz. in crate. 20 lbs. ... Doz. $10.25

"Brass Monarch" ... 11x11, ... rubbing ... spiral crimp ... soap-saving drainboard guaranteed 5 years.

W1335—¾ doz. in crate 18 lbs. ... Doz $9.75



Our Best ... 11x2... ... rubbing ... globe crimp ... Corn ... spiral ... ... corrugated ... ... narrows, ... dovetailed corners, soap-saving drainboard.

W1348—½ doz. in crate. 24 lbs. ... Doz $10.25

STAR VALUE

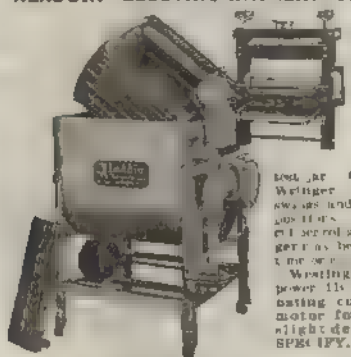
W1816—6 styles, plain ... globe ... spiral and cable crimps all with soap-saving drainboard in crate. 30 lbs. Assd. 1 doz. Doz. $6.75

MERCHANTS Who Are the Most Successful Buyers, Among Always at the Biggest Values, BUY FROM THESE PAGES

WASHING MACHINES

A type for every home—hand power, water power and electric power. With the shortage of domestic help and an increasing demand for washing machines it will pay to give these a good showing. Display some in your store now.

"ALADDIN" ELECTRIC WASHERS Swinging Wringers



Body all metal double seamed, smooth finish at top and inside, 1 piece cover ... handle. Painted ... enamel. Cylinder white maple easily cleaned ... 8 lines and reverses without slip ... Capacity 6 shirts. Wringer with safety release ... and rocks at 5 different positions. ½ hp. power electric ... Washer and wringer ... be operated at the same ... separately.

Westinghouse Motor ... power 115 volt ... alternating current ... motor for direct current at a slight delay. BE SURE TO SPECIFY.

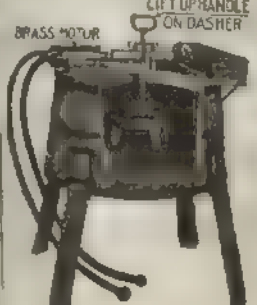
W4710—Galvanized steel body. Crated 200 lbs. Each. $102.00
W4711—Copper body. Crated, 200 lbs. Each 124.00

IMPROVED ELECTRIC WASHING MACHINE

W4702 — Peg type Cypress tub, capacity 8 shirts or 3 sheets 12½ in. deep, 23 in. diam., corrugated inside, gray enamaled outside, with 10 in. guaranteed reversible wringer, swings into three positions, ... and ... ger can be operated separately or together ... power ... ½ hp. ... 110 volts 60 cycle, alternating or direct current ... on request at a slight increase in price and delay in shipment. SPECIFY CURRENT AND VOLTAGE. ... in crate. 5... lbs. Each $79.50

"BADGER" WATER POWER WASHING MACHINE

Guaranteed to work on 30-lb. water pressure and for 1 year, parts proving defective will be replaced free of charge.



W1367 — Louisiana cypress tub, inside depth 12½ in., top 21, bottom 23, capacity 8 shirts, brass cast motor ... valve ... springs ... ball ... double bearing for washer shaft ... complete with hose, ... tag with each machine. Guaranteed to work on 30 lb. water pressure (not less) and for 1 year's service. Crated ... lbs. Each $20.50

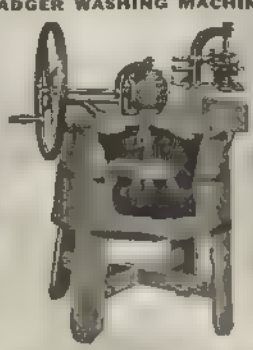
BADGER WASHING MACHINES

Lever Hand Power—'Round Amer... ... cypress ... Holds ... nelcypress ... inside depth 13 in., top 21, bottom ... again by 8 shirts, tongued and grooved, steam tight 4 pin dasher, tub and legs natural metal parts ... and aluminum

W1356—Crated, 85 lbs Each. $9.95

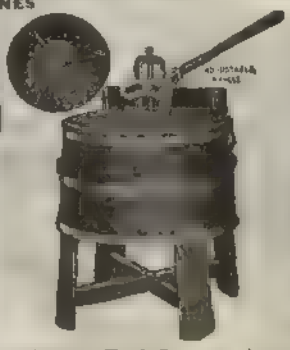
Lever Hand Power—'Standard." ... principle, upper cylinder ventilating while lower board remains stationary upper cylinder self adjustable ... removable bottom board capacity 10 shirts, heavy wringer board, one of the easiest machines to operate.

W1358—Crated, 80 lbs. Each. $11.95



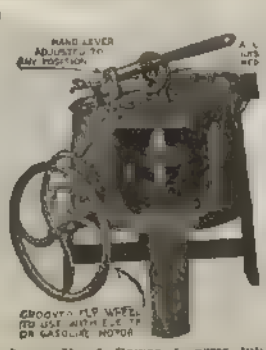
Rotary Hand Power—Cypress tub inside depth 11 in., capacity 8 shirts, 4 pin dasher ... corrugated gearing protected ... removable grating, roller bearings telescopic dasher post, metal parts red, green and aluminum

W1365—Crated, 80 lbs Each, $14.50



Vacuum Hand Power—... Louisiana cypress tub, natural finish inside depth ... top ... bottom ... 8 shirts capacity ... gated hoops and ... galvanized metal ... Combined with the well known rotary principles.

W1360—Crated, 85 lbs Each, $14.75



Lever Hand Power—... cypress tub inside depth 12½ in., top 21 ... bottom 20 ... capacity 8 shirts, ... 14 in. fly wheel, driven from 9 in. gear wheel—giving greater power with less effort all gears machine cut, not "cast," hand lever adjustable to any position, grooved fly wheel, can be used with gasoline or electric motor. Each

W1362—Crated, 100 lbs. ... $16.00

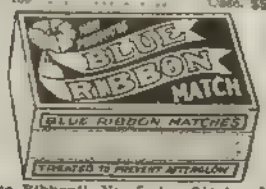
MATCHES & VENDING MACHINE

Brands that are known and enjoy a country-wide popularity. All matches have first-class round sticks and comply with the match laws of any state. No insurance is necessary to carry these.

DIAMOND PARLOR MATCHES

"Safe Home" No. 5 size, 2¾ in. clean round sticks, double dipped, black base, red tips. 6 boxes in pkg.
W2750—30 pkgs. (180 boxes) in case, 85 lbs. Case, $5.00

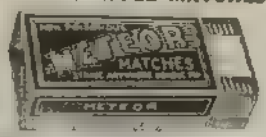
"Searchlight" No. 5 size, 2¾ in. clean round sticks, double dipped, dark red base, white tips, 6 boxes in pkg.
W2757—30 pkgs. (144 boxes) in case, wt. 80 lbs. Case, $7.00



"Blue Ribbon" No. 5 size, 2¾ in. clean round sticks, double dipped, black base, blue tips. 6 boxes in pkg.
W2758—30 pkgs. (144 boxes) in case, wt. 85 lbs. Case, $6.75

"Gold Medal" Safety Matches—Made in U. S. A., clean white sticks, paraffine treated to insure burning, large brown heads, can be used in vending, machines 60 to 70 matches in box.
W2750—1 gro. boxes in pkg. Gro. box 20c
10 gro. lots, " " 18c

DOUBLE TIPPED MATCHES



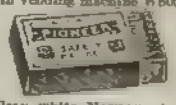
"Meteor" 400 size 2¾ in. clean round sticks, double dipped, dark blue base, light blue tips. Over 400 to box, 12 boxes in pkg.
W2491—12 pkgs. (144 bxs.) in case. Case, $8.10

"King O"—500 count, 2¾ in. round sticks, double dipped, black heads, blue tips. 12 boxes in pkg.
W2493—12 pkgs. (144 bxs.) in case. Case, $8.25

BUY FROM THIS PAGE if you want items of unusual SELLING VALUE

IMPORTED SAFETY MATCH

For use in vending machine W5027 only



W2488—Clean white Norway pine, impregnated, brown heads, safety. Over 60 to 70 matches to box. 1 gro. boxes to pkg. Gro. boxes, 98c

SAFETY MATCH VENDING MACHINE

W5027—Strictly high grade machine 14¼ in. high 10 in. wide, golden oak case, black enamel metal front, with glass top, 4 metal match channels, holds 48 boxes, 1 to carton. Each, $6.25

O-Cedar MOPS AND POLISHES

Well known advertised household utility in continual demand wherever shown. Display a few of these numbers and get your share of the business.

"O-CEDAR" FLOOR POLISH MOPS

Triangle Oil Mop—Adjustable handle, each mop in tin box. ½ doz. in pkg.
W2507—8 oz. size, Doz. $10.00
W2508—1.75 " " 14.00

Battleship Model Oil Mop—Heavy braid, metal and feeding head and [illegible] 1 doz. in pkg.
W2509—3 oz. size, Doz. $12.00

"O-CEDAR" DUSTLESS DUST MOPS

For hardwood floors, walls and ceilings. Collects and holds the dust. Each in tin box.

Triangle Dust Mops—
W9512—$1.25 size, Doz. $10.00
W9511—1.75 " " 14.00

Battleship Model Dust Mop—
W9513—$1.75 size, Doz. $12.00

"O-CEDAR" POLISH

Highly recommended for cleaning and polishing hardwood floors, linoleum, oilcloth, etc., and removing mops, produces a high, hard, lasting luster.
W9503—4 oz. bottle, 1 doz. in box, Doz. $2.40
W9504—13 oz. bottle, 1 doz. in box, Doz. $4.80
W9505—½ gal can, ½ doz. in box, Doz. $10.00
W9559—½ gal can, ½ doz. in box, Doz. $15.00
W9558—1 gal can, Gal. $2.00

ARE YOU PREPARED FOR THE SPRING CLEANING?

"LIQUID VENEER" POLISH MOP AND MOP & POLISH ASST.

Polish Mop—Swab can be removed for washing, [illegible] can.
W9520—$1.50 size, Doz. $12.00

Mop & Polish Asst.—Asst comprises the following: ½ doz. 1 oz. bottles liquid veneer polish 25c size, ½ doz. 13 oz. bottles liquid veneer polish 50c size, ½ doz. 12 oz. bottles liquid veneer polish 75c size, ½ doz. 32 oz. bottles liquid veneer polish $1.00 size, 1½ doz. 12 oz. bottles liquid veneer polish $1.50 size, ½ doz. 32 oz. bottles liquid veneer polish $2.50 size, in handsome display carton.
W9521—Asst. doz. pkg. in asst., Asst. $13.20

"Little Giant" Asst.—Asst comprises the following: 1½ doz. 1 oz. bottles liquid veneer polish 25c size, ½ doz. 13 oz. bottles liquid veneer polish 50c size.
W9522—Asst. doz. pkg. in asst., Asst. $6.00

"O-SO-EZY" COMBINATION MOP SET

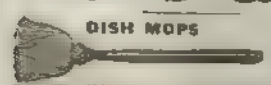
Combination Set—1 adjustable handle, large size O-Cedar self-wringing mop, 1 dust mop and 1 oil mop, all 54 in. interchangeable handle.
W1320—Each set in litho tin box, Set, $1.55

Cedar Oil—8 oz. can kerosene cedar oil for above polishing mops.
W1319—½ doz. in pkg., Doz. $1.95

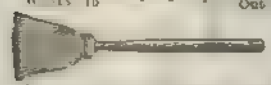
MOPS & MOP HOLDERS

It pays to have a complete stock of these necessities because you have calls for them every day. Sales are easy and turnover quick. Look through this showing and you will find the market's best offerings.

DISH MOPS

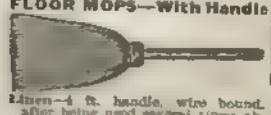


Egyptian White Cotton—Cut ends, soft, 2 wooden handles. 1 doz. in pkg.
W1315—15 " " Doz., Temp. Out



Utility"—3¾ in., heavy white Egyptian cotton head, thick thread [illegible] ends.
W2[illegible]—1 doz. in pkg., Temp. Out

FLOOR MOPS—With Handle

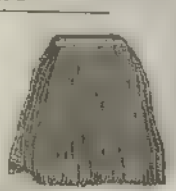


Linen—4 ft. handle, wire bound, after being used several times absorbs water freely and will not [illegible] can also be used on hardwood floors as a dry mop, or for polishing with oil. ½ doz. in bdl.
W1329—12 oz., 9 lbs., Doz. $4.50
W1323—14 " 10 " " 5.00
W1330—16 " 11 " " 5.50
W1327—20 " 12 " " 6.50

Yarn—4 ft. handle, best grade 15 ply [illegible] yarn, wire bound, [illegible] head, [illegible] of yarn, [illegible] yarn, [illegible] strong braid, [illegible] ½ doz. to bdl.
W1[illegible]—[illegible] up to 9 lbs. to doz., Doz. $4.75
W1[illegible]—[illegible] up to 6 lbs. to doz., Doz. $3.85
W[illegible]—[illegible] lbs. to doz., Doz. $6.50

COTTON MOPS

Loop Ends—4 ply twisted cotton, good wt., tough gray cotton, loop ends taped top. 1 doz. in bdl.
W3288—10 in. strings, 5 in. head, 5 lbs. to doz., Doz. $2.40
W3289—12 in. strings, 5 in. head, 7½ lbs. to doz., Doz. $3.75



Cut Ends—4 ply twisted cotton, heavy white cotton, cut ends, taped top. ½ doz. in pkg.
W3208—15 in., about 10½ lbs. to doz., Doz. $5.75
W3209—18 in., about 15 lbs. to doz., Doz. $7.95

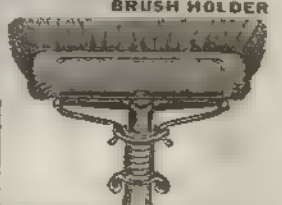
"ANTI-RUST"—Pot Cleaner

W1325—[illegible] with [illegible] strands heavy [illegible] for hard [illegible] dinner [illegible] in pkg.
Doz. 95c

COTTON DISH CLOTHS

Coarse mesh [illegible] and over stitched sides, 1 doz. in bdl.
W1275—15x7 mesh, Doz. $0.96
W1279—18x9, heavy " 1.25

MOP OR SCRUB BRUSH HOLDER



W1304—Holds mop or scrub brush, [illegible] metal [illegible] screw clamp, 44 in. natural [illegible] handle, 1 in bdl., 5 lbs., Doz. $3.75

PAIL AND CRANK MOP WRINGERS

"Pail and wringer in one"—3 maple rollers with oak, heavy steel frame. W2194—HOUSEHOLD, 10 qt., two hoop cedar pail, 1 in pkg., 11 lbs., Each $2.75
W2195—JANITOR, 14 qt., three hoop heavy cedar horse pail, 1 in pkg., 15 lbs., Each $3.20

FIBER PAIL
W1310—14 qt. sanitary [illegible] with [illegible] handle, attractive [illegible] 1 pail in pkg., 9 lbs., Doz. $12.50

MOP HOLDERS—With Handles

Strong patent lever spring grip. Used with removable cotton mop makes most sanitary kind, as mop rail be cleaned separately.

W1303—Model No. 7, improved cast steel head, extra heavy coil springs and lever, 44¾ in. hardwood handle, 1 doz. in bdl., 15 lbs. Doz. $3.60

W1305—"Janitors" very strong extra heavy spring lever, 4 ft. natural finish handle, ½ doz. in pkg., 12 lbs. Doz. $5.95

WATCH CASES

Well made, durable cases without movements. You can select these cases and fit them with movements. It will pay to keep a variety of them in stock. Our prices will bear closest inspection.

J7001 J7005 J7006 J7027

Nickel Silver, Open Face—Solid nickel silver cases, screw back and bezel.

J7001—18 size.....Each, $1.21
J7002—16 " ..... " 1.16
J7003—12 " ..... " 1.16

10 Yr. Hunting—10 yr. gold filled case, hunting engraved.

J7005—15 size.....Each, $4.16
J7006—12 " ..... " 3.83

10 Yr. Open Face—Screw back and bezel engraved.

J7011—18 size.....Each, $2.96
J7012—12 " ..... " 2.81

20 Yr. Open Face—20 yr. filled, screw back and bezel engraved.

J7013—18 size.....Each, $7.21
J7014—16 " ..... " 5.58
J7021—12 " ..... " 5.00

25 Yr. Open Face—Screw back and bezel gold filled engraved cases.

J7035—18 size.....Each, $8.37
J7036—12 " ..... " 7.53

25 Yr. Hunting—25 yr. gold filled cases, hunting engraved.

J7034—18 size.....Each, $12.60
J7033—12 " ..... " 11.20

20 Yr. Hunting—Gold filled cases, hunting engraved.

J7014—18 size.....Each, $9.17
J7015—12 " ..... " 8.27

Hunting, Permanent Guarantee—Gold filled cases, hand engraved, will wear like solid gold; new case given for any that does not prove satisfactory.

J7027—16 size, hunting.....Each, $13.68
J7028—12 " " ..... " 12.52

Open Face, Permanent Guarantee—Screw back and bezel, gold filled, case hand engraved, will wear like solid gold.

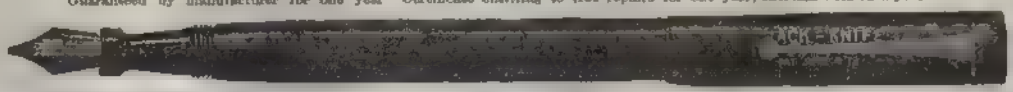
J7029—6 size.....Each, $10.15
J7030—12 " ..... " 9.31

FOUNTAIN PENS

Well known brands in big demand. Your choice of A. A. Waterman, "Lucky Curve" and other extremely popular pens. As fountain pens make most acceptable gifts, you'll want a good supply for the holiday season. Our prices are absolutely right.

PARKER "LUCKY CURVE" FOUNTAIN PENS

Guaranteed by manufacturer for one year. Certificate entitling to free repairs for one year, enclosed with each pen.

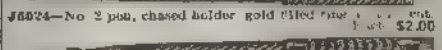


This cut illustrates actual size of pens

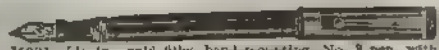
Safety Seal Self Filler—Length 5¼ in., lock knife, safety seal self filler, chased barrel, with clip, non-leakable, 14k nibs.

J5017—No. 2 pen, full length.....Each, $1.52
J5018—" 3 " " " " 2.35
J5019—" 4 " " " " 2.82
J5020—" 5 " " " " 3.50

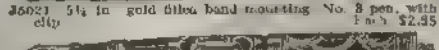
J5024—No. 2 pen, chased holder, gold filled mounted, 14k nib.....Each, $2.00



J5022—No. 2 pen, chased barrel, 2 gold filled plain bands, 14k nib.....Each, $2.70



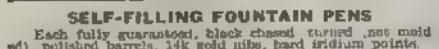
J5021—5¼ in., gold filled band mounting, No. 3 pen, with clip.....Each, $2.95



J5023—No. 4 pen, full filigree gold filled mounting with ring attachment.....Each, $5.35

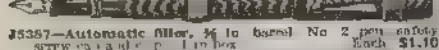
SELF-FILLING FOUNTAIN PENS

Each fully guaranteed, black chased, turned (not molded), polished barrels, 14k gold nibs, hard iridium points.



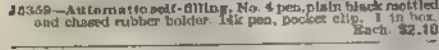
J5028—5½ in., chased, highly polished, turned barrels, lever self filling, 14k gold pen, pocket clip. ½ doz. in box, 1 in box.....Doz. $9.50

J5357—Automatic filler, ⅜ in. barrel, No. 2 pen, safety screw cap, pocket clip, 1 in box.....Each, $1.10



J5359—Automatic self-filling, No. 4 pen, plain black mottled and chased rubber holder, 14k pen, pocket clip, 1 in box.....Each, $2.10

LEVER SELF-FILLING FOUNTAIN PEN



Length 5¾ in., new device for filling the pen instantly, the lever conforms with the shape of the pen, and is always out of the way. Only one action needed for filling. Hand chased and highly polished turned barrels, screw cap, 14k gold pens, pocket clip, 1 in box.

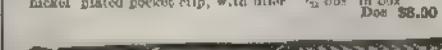
J5320—No. 2 pen.....Each, $1.35
J5321—" 3 " " 1.65
J5322—" 4 " " 2.10
J5039—" 5 " " 2.35

BUY HERE AT YOUR LEISURE

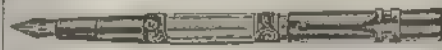
THIS catalogue is a truly great salesman. It neither argues with you nor intrudes upon your time. It merely presents clearly and briefly the merchandise you need. DON'T IT DESERVE YOUR PATRONAGE?

POPULAR PRICED FOUNTAIN PENS

J5378—⅜ in. chased hard rubber barrel, 14k solid gold pen, nickel plated pocket clip, with filler. ½ doz. in box.....Doz. $8.00

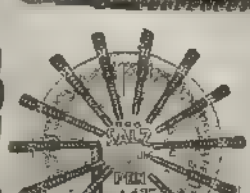


J5394—⅜ in. chased turned barrel, 14k No. 4 gold pen, with filler. 1 in box.....Each, 95c



J5391—5½ in., ⅜ in. barrel, ⅛o gold filled chased open work center, No. 2 pen, safety screw cap, with filler. 1 in box.....Each, $1.75

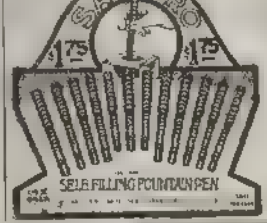
"SALZ" $1.00 SELF-FILLING FOUNTAIN PEN



Well made open slip filler. Each in box. 1 doz. on easel display card. Sizes given are for pen when closed.

J5033—2 sizes, 9 pens full size 5¾ in., 3 pens vest pocket size, 4½ in., highly polished chased turned barrels, 14k gold pen, coin slot filler, safety screw cap, pocket clip, 1 in box. Assted. 1 doz. on easel display card.....Doz. $9.00

"SALBRO" SELF-FILLING FOUNTAIN PEN

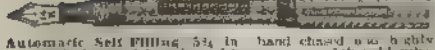


Fully guaranteed. Well known and advertised, put up on attractive 3 color easel display card. Sizes given are for pen closed.

J5034—2 sizes, 3 pens full size 5¾ in. and 3 pens vest pocket size 4½ highly polished, black chased turned barrels, 14k gold pen, lever self filler, safety screw cap, pocket clip, each in box. Assted. 1 doz. on easel display card.....Doz. $12.00

FAMOUS A. A. WATERMAN'S FOUNTAIN PENS—(Not to be confused with L. E. Waterman.) Length 5¼ inches

This cut illustrates actual size of pens

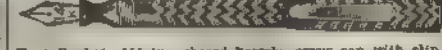


Automatic Self Filling 5¼ in., hand chased and highly polished turned barrels, safety screw cap, 14k gold nibs, pocket clip, 1 in box.

J5000—No. 2 pen.....Each, $1.65
J5001—" 3 " " 2.25
J5002—" 4 " " 2.55
J5003—" 5 " " 3.15
J5004—" 6 " " 3.75

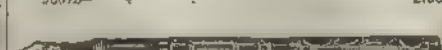
Automatic Self-Filling—5¼ in., gold filled, mounted, with pocket clip.

J5013—No. 2 pen.....Each, $1.95
J5014—" 3 " " 2.55

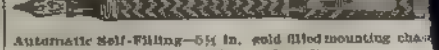


Vest Pocket—4½ in., chased barrels, screw cap with clip, automatic self-filling.

J5010—No. 2 pen.....Each, $1.65
J5011—" 3 " " 2.25
J5012—" 4 " " 2.55



J5015—5¼ in., gold filled filigree, embossed full mounted, automatic self-filling, No. 2 pen.....Each, $5.40



Automatic Self-Filling—5¼ in., gold filled mounting, chased holder, screw cap, gold filled, pocket clip.

J5005—No. 2 pen.....Each, $2.95
J5006—" 3 " " 3.55
J5007—" 4 " " 3.85

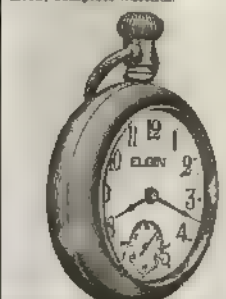
J5016—5¼ in., gold filled full mounted, automatic self-filling, No. 3 pen.....Each, $7.20

ELGIN, WALTHAM & N.Y. STANDARD WATCHES

The best known names in the watch world—that stand for the highest standard of reliability and refinement in watch service.

18 SIZE

Men's nickel silver and gold filled, complete watches.



J9709—18 size, open face, solid nickel silver screw back and bezel, plain polish case.

Jewel		Each
7 N Y	Standard	$5 20
7 nkl	Elgin	Temp Out
7 "	Waltham	" "
15 "	Elgin	" "
15 "	Waltham	$10.45
16 "	Waltham	T O
17 "	Elgin	$11.88
17 "	Waltham	T O

J7601—18 size, 20 yr. gold filled case, engraved.

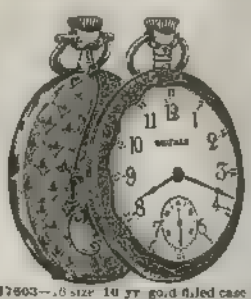
Jewel		Each	Open Face
7 nkl	Waltham		Temp Out
7 "	Elgin		$13.66
15 "	Waltham		Temp Out
17 "	Elgin		$17.68
17 "	Waltham		Temp. Out
15 "	Elgin		$16.25

16 SIZE

Men's solid nickel, silver and gold filled, complete watches. They could have no stronger recommendation than the names Elgin and Waltham imply. The reputation of the Waltham and Elgin products has justly been obtained through the satisfaction they have given

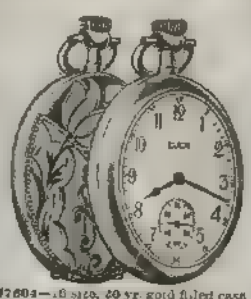
J9731—16 size, open face, thin model, solid nickel silver, antique bow, plain polished.

Jewel		Each
7 N Y	Standard	$5.20
7 nkl	Elgin	Temp Out
15 "	Elgin	Temp Out
15 "	Waltham	Temp Out
17 "	Elgin	$15.46
17 adj	nkl Elgin	20.21
17 "	" Waltham	22.38



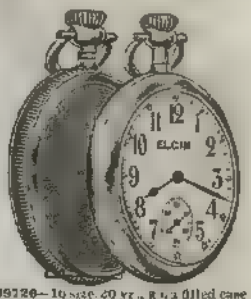
J7603—16 size 10 yr. gold filled case, engraved.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$7 51	$8.66
7 nkl	Elgin	10.43	11 60
15 "	Elgin	14.83	16.00
17 "	Elgin	17.36	18 53
17 adj	Waltham	24.27	25.45



J7604—16 size, 20 yr. gold filled case, engraved.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$ 9.92	$13.34
7 nkl	Elgin	12.85	16 26
7 "	Waltham	Out	18 20
15 "	Elgin	17 25	20.66
15 "	Waltham	21.50	24.92
17 J adj	Waltham	26.71	30.12

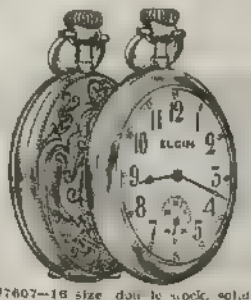


J9726—16 size, 20 yr., gold filled case, plain polished case.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$9.14	$12.18
7 nkl	Elgin	11.95	14.80
15 "	Elgin	16.25	19 20
15 "	Waltham	20.50	23.45
17 adj	Waltham	25.70	28.65

J9721—16 size, 20 yr., gold filled, engine turned case.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$9.14	$12 18
7 nkl	Elgin	12.05	15.13
15 "	Elgin	16.45	19.53
15 "	Waltham	20.70	23.78
17 adj	Waltham	25.90	28.98



J7607—16 size double stock, solid gold joints engraved.

Jewel		Each Open Face	Each Hunting
7	Elgin	$13.21	$16.84
15	Elgin	17.61	21.84
15	Waltham	21.86	25.49
17	adj Waltham	27.06	30.69

J7608—16 size 25 yr. gold filled case, solid gold joint and antique bow, hand engraved.

Jewel		Each Open Face	Each Hunting
7 nkl	Elgin	$15.50	$19 53
15 "	Elgin	18.90	23.93
17 adj	Waltham	29.36	33.38

J7643—16 size permanent guarantee, gold filled, hand engraved.

Jewel		Each Open Face	Each Hunting
7 nkl	Elgin	$17 21	$20 56
15 "	Elgin	21.61	24.96
15 "	Waltham	25.86	29.21
17 adj	Waltham	31.66	34.47

12 SIZE

Here is a good variety of the popular 12 size Waltham and Elgin complete watches. They always give satisfaction. Plain polished and beautifully engraved styles. Note the $30 and $45 Streamline Models. Elgins very thin and trim looking, fitting the pocket nicely, also J7644, with the permanently guaranteed gold filled case.

J7801—12 size, open face screw back and bezel, plain polished, solid nickel silver case.

Jewel		Each
7	Elgin	$9.68
7	Waltham	12.32
15	Elgin	13.78
17	Elgin	Temp. Out
17	adj. Waltham	$25.06

J7126—12 size, 10 yr., gold filled, plain polished case.

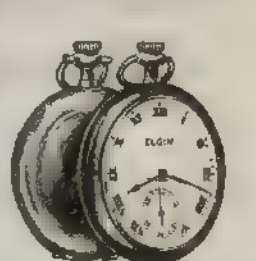
Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$8.86	
7	Elgin	11.09	$11.86
7	Waltham	13.70	14.52
15	Elgin	15.20	15.98
15	Waltham	20.61	21 40
17	"	T O	T O
17	adj Waltham	$26.48	$27.26

J7613—12 size 20 yr. gold filled, thin model, engraved case.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$9.19	
7	nkl Elgin	13.44	$16.56
7	" Waltham	16.08	18.20
15	" Elgin	17.54	20.66
17	" Elgin	T O	T O
17	" adj W	$26.82	$33.28

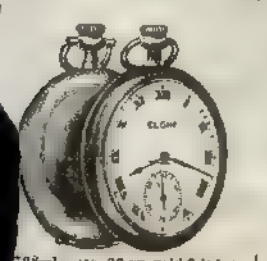
J7612—12 size, 10 yr. gold filled engraved case.

Jewel		Each Open Face	Each Hunting
7 N. Y.	Standard	$ 7.24	
7	nkl Elgin	11.42	$12.41
7	" Waltham	14.06	14.72
15	" Elgin	15.53	16.52
15	" Waltham	20.94	21.93
17	" Elgin	T O	T O
17	" adj Waltham	$26.81	$27.80



J7207 12 size, 20 yr. gold filled plain polished.

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$ 8.40	
7	nkl Elgin	12 44	$15.09
7	" Waltham	15.08	17.73
15	" Elgin	16.54	19.20
15	" Waltham	21.96	24.61
17	" Elgin	T O	T O
17	" adj Waltham	$27.82	$30.48



J7708—12 size 20 yr. gold filled engine turned

Jewel		Each Open Face	Each Hunting
7 N Y	Standard	$8.40	
7	nkl Elgin	12.64	$15.42
7	" Waltham	15.28	18.05
15	" Elgin	16.74	19.53
15	" Waltham	22.16	24.94
17	" Elgin	T O.	T O.
17	" adj. Waltham	$28.02	$30.81

J7617—12 size 25 yr. gold filled case, solid gold joints and antique bow, engraved, open face case, screw back and bezel.

Jewel		Each Open Face	Each Hunting
7	nkl Elgin	$15.22	
7	" Waltham	18.86	$21.98
15	" Elgin	20.33	23.45
17	" Elgin	T O	T O
15	" Waltham	$25.74	$28.86
17	" adj. Waltham	31.61	34.73

J9833—Octagon, 12 size thin model, open face, 20 yr. double stock, gold filled, plain polished, triangle bow jewel crown, neat black and flat dial.

Jewel		Each
7	Elgin	$15.80
7	Waltham	18.44
15	Elgin	18.90
17	Elgin	Temp. Out
17	adj Waltham	$31 18

J7191 — $30.80 Elgin Streamline Model—20 yr. gold filled, 12 size, plain polished hinged back, snap bezel case 17 jewel adjustments, silvered dial, each in velvet and satin lined box. Each, Temp. Out

J7192 — $45 Elgin Streamline Model—14k gold filled, 12 size, plain polished hinged back, snap bezel extra thin model 17 jewel 5 adjustments G. M. Wheeler, silvered dial, each in velvet and satin lined case. Each Temp Out

J7644—12 size, permanent guarantee, gold filled hand engraved. We will wear like solid gold. If new case given for any that does not prove satisfactory.

Jewel		Each Open Face	Each Hunting
7	nkl Elgin	$17 54	$20 60
7	" Waltham	20 18	23 24
15	" Elgin	21 65	24.70
15	" Waltham	27.06	30.12
17	" Elgin	To Arr	To Arr
17	" adj Waltham	$32.93	$35.98

ALARM AND WALL CLOCKS

Nationally known clocks of merit—advertised brands in the various popular styles. Metal cased alarms with ordinary or radium dials, intermittent or regular alarm. A liberal display will draw added profits

NOTE: Nationally advertised alarm clocks will be billed at lowest market prices at time order is shipped, whether higher or lower than here named.

POPULAR PRICED ALARM CLOCK

'Sentinel" Long alarm 10 to 30 hr brass movement, steel lantern pinions, nickel plated nickeloid case, 4½ in. arabic dial, shutoff switch
J9435—1 in box Each, $1.44

WATERBURY ALARM CLOCKS—Waterbury, American Made, Reliable

Waterbury "Twin"—Ht. 6 in.; seamless nickel plated brass case, double bell, 30 hr., lever switch, 4 in dial
J9454—1 in box .....Each, $1.78

Waterbury "Spasmodic"—Ht. 5¾ in. loud alarm or with intermissions every ½ minute for 15 minutes, seamless nickel plated solid brass case, 4¼ in dial, 30 hr movement
J9453—1 in box.. ... Each, $2.75

Waterbury "Gale"—Ht. 4⅜ in., loud bell long alarm or with intermissions every 20 seconds for 30 minutes, set by winding key, 6¾ in. dial, 30 hr movement
J9455—1 in box... Each, $3.28

Waterbury "Cyclone"—Ht. 7 in 1 pc nickel plated case, 6 minute loud alarm or with intermission every ½ minute for 15 minutes, set by switch at top, 4¼ in. dial, 30 hr. movement.
J9454—1 in box. . Each, $3.19

RADIUM DIAL ALARM CLOCKS—Tell Time in the Dark

New Haven make, seamless nickel plated solid brass case, full size alarm bell back with shut off switch, 30 hr. movement, black dial white figures, convex glass, radium hands and triangle dot over each numeral

"X Ray" Radium dial, 4½ in. nickeled case, 30 hr all brass movement, steel pinions, black dial with radium numerals and hands, lock bell alarm, ball shutoff stem.
J9442—1 in box . . . Temp. Out

"Typhoon"—4½x4½, intermittent alarm rings and stops at 20 second intervals for 15 minutes.
J9439—1 in box . . . . .Temp. Out

"Drummond"—8 day, seamless nickeled case, brass movement, steel lantern pinions, ball shutoff stem 3 in black radium dial and hands
J9443—1 in box . . . . . Temp. Out

One of the best advertisements a merchant can have is that of being 'quicker' The public likes to trade with such a man. It pays to foster the reputation of always being first to offer new goods, to share the benefit of price reductions and to do the other things that mark a "quicker."

MANTEL CLOCKS

Oak Finish—22x14, embossed gold decorated, glass door, 8 day, half hour strike, 6 in dial

WITHOUT ALARM—

	Each
J1734—1 in. case, 13 lbs	...$3.25
J1738—6 " 75 "	
CASE of 6,	$18.85

WITH ALARM—

	Each
J1735—1 in case, 15 lbs	...$3.75
J1739—6 " 75 "	
CASE of 6,	$21.35

COMBINATION—

J9264—8 without and 8 with alarm, Assrd. 6 in case, 70 lbs
CASE of 6, $20.80

J1736—With calendar, barometer and thermometer. 1 in case. 13 lbs. . . Each, $4.60

Mission Finish—14½x10, turned ham and leg, 8 day, hour and half hour strike, 5 in. white dial, gilt decorated glass door
J9265—1 in case, 12 lbs.
Each, Temp. Out

WALL CLOCKS

Drop Octagon—24½ in., high oak case, 12 in dial. 1 in case, 18 lbs
J1738—8 day . . . Each, $4.85
J9002—8 " with calendar. Temp. Out

Western Union Style—37x18, oak case, 12 in. dial, 1 in case, 27 lbs
J1737—8 day. . . . Temp. Out
J1756—8 " with calendar. Each, $5.95

There's money for you in "RICHELIEU" pearl necklaces. A careful study of goods and prices on preceding page will convince you of this.

"CALL" AND "INDIAN" ALARM CLOCKS

Well made clocks that sell at popular prices and still pay you a substantial profit.

Waterbury "Call"—Ht. 6¼ in., nickel plated case, 4 in. dial, 30 hr, brass movement, shutoff switch

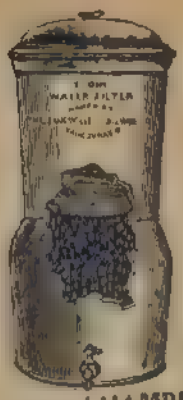
J9450—1 in box.....Each, **$1.44**

"Indian"—Long arm released by raising bell on stem, shutoff by pressing ball, 30 hr brass movement, steel lantern pinions, polished, nickeloid case, bell enclosed in case, 3½ in. white dial,

J9206A—1 in box.....Each, **$1.50**

WATER FILTERS

STONE WATER



Filter and cooler combined. Filtering is by percolation through a porus natural stone from the upper to lower jar by gravitation. Impurities in the water are retained on the surface of the stone. Easily cleaned. Can be cleaned in two minutes when it is the same as new. Absolutely germ proof.

Nos.	2	3	4
Capacity day, gallons	3	4	6
Size filter disc, inch	8¼	9	10
Top vessel cap. qts.	9	12	16
Bottom vessel cap. qts	13	17	21
Net weight each, lbs	24	35	60
Ship weight ea, lbs.	44	57	80
Each	$7.50	8.75	11.50

CHAMPION GERM PROOF

All metal parts nickel plated brass, highly polished. Filtering tube is natural stone, securely attached by iron to cap and fastened with screw clamp. Allows easy removal for washing and brushing. Standard thread to fit ½, ⅝ or ¾-inch threaded faucets. To attach to smooth faucets, use Champion Slip Connections. Positively allows no impurities or germs to pass through and delivers sparkling, cool and pure water. Stone readily renewed when broken or worn out. Two dozen in case.

Nos.	1	1½
Length of stone, inch	2½	4½
Diameter of stone, inch	2	2½
Average capacity per hour, gals.	3	4
Net weight each, lbs.	1½	3½
Shipping weight per case, lbs.	45	105
Each	$3 75	5 65
Extra tubes	Each 90	1 35

One in a cardboard box.

SENECA

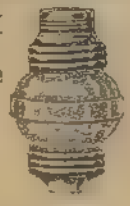
For family use. Place in an ordinary bucket, filled with dirty water, and it will filter the water in a steady stream, the water coming through pure.

For camping use, place brick in muddy stream and drink pure water.

No.	Brick
Capacity per day, gallons	20
Size, inch	6x1x2
Dozen in case	1
Net weight per dozen, lbs.	27
Shipping weight case, lbs.	35
Per dozen	$30 00

One in cardboard box with hose

Reversible, self-cleaning. Will fit both plain and hose bibbs. Quartz and charcoal filter in glass container. Nickel plated attachments.



No.	Hygienic
Height, inch	4¼
Diameter container, inch	2½
Net weight per dozen, lbs.	8
Per dozen	$9.00

One in a box six in a display box

CHARCOAL REVERSIBLE

Brass, nickel plated. Charcoal filled. Reversible, self-cleaning. Will fit both plain and hose bibbs.

No.	2
Diameter inch	2
Length, inch	3
Net weight per dozen, lbs.	3½
Per dozen	$6 00
Extra gaskets	Per dozen .50

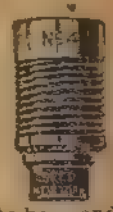
Filters, one dozen in box; gaskets, loose.

CHARCOAL REVERSIBLE

Double strainer, cotton disc filter. Fits either hose or plain bibbs. Nickel plated.

No.	Aqua
Size, inch	1¾x1¾
Net weight per dozen, lbs.	1½
Per dozen	$4 80
Extra discs	2.00

SIEVE NON-REVERSIBLE



Brass nickel plated. Sieve filter. Fits both hose and plain bibbs.

No.	4
Diameter threaded end, inch	1
Length, inch	1¾
Net weight per gross, lbs.	10
Per dozen	$1 80
Extra gaskets	Per dozen .50

Three dozen in a box.

Nickel plated brass. Sieve filter. Fits hose and plain bibbs.

No.	5
Diameter threaded end, inch	1
Length, inch	2
Net weight per gross, lbs.	12
Per dozen	$2.00

One dozen in a box.

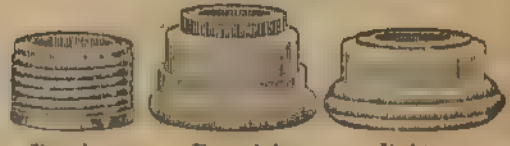
ANTI-SPLASH SEEDS 3-IN-ONE

Nickeled brass. Fits plain or hose bibbs. Avoids splashing in the sink. Strains the water. Prevents dishes from breaking against faucet.

Dozen in box	1
Net weight per gross, lbs.	12
Per dozen	$1 80

½ dozen on easel card, ½ dozen loose.

GEM—ANTI SPLASH



Eureka Porcelain Rubber

Eureka nickel plated. Used on plain or hose bibbs. Porcelain for plain bibbs only. Rubber for use on plain bibbs

	For use on Eureka	Plain	Rubber
Diameter, inch	¾	1½	1½
Thickness, inch	¾	¾	¾
Net weight gross, lbs.	5	22	8
Per dozen	$0.75	1.20	1.80

Eureka, 3 dozen; Porcelain, 1 dozen; Rubber, 3 dozen in box.

Shipping weight filters adds 50% to net weight.

BIBB FILTER ATTACHMENT

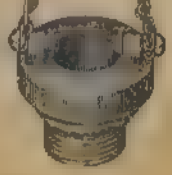
Nickel plated. For attaching threaded filters to plain bibbs. Held firmly to bibb by rubber gasket, preventing leakage. FF is rubber gasket. HH are screws for holding attachment to bibb. G is threaded with ¾-inch standard pipe thread.

Net weight per dozen, lbs.	18½
Per dozen	$6 00

Specify size of bibb wanted. One dozen in cardboard box.

EXTRA GASKETS

Size faucet, inch	½	⅝	¾
Net weight gross, lbs.	3	2	2
Per dozen	$0 50	.50	.50



CHAMPION SLIP CONNECTIONS

Made to fit smooth end faucets and is threaded to fit No 1 Champion Filters. Solid brass, nickel plated.

Net weight per dozen, lbs.	3
Per dozen	$12 00

WOODEN WARE
ICE CREAM FREEZERS

Can revolves right to left, outside beater revolves left to right, inside beater revolves right to left, outside beater has two wood scraping surfaces, which remove cream from sides of can and forces it to center.

Galvanized malleable iron castings. Pure tin plated beaters. Charcoal tin can. White cedar tubs with drain.

SAMSON POWER

TRIPLE MOTION, WITH PULLEY

Gear frame quickly released and raised, so can and tub can be removed.

Capacity, quarts	*25	*40
Engine to operate, H. P.	1½	2
Size of pulleys, inch	4⅞x11½	5½x13
Revolutions per minute	75	75
Height of tub inch	24	27½
Shipping weight each, lbs.	316	600
Each	$150 00	200.00

ARCTIC

Capacity, quarts	1	2	3	4	6	8
Height of tub, inch	8¼	10¾	13¼	14¼	15¼	16¾
Ship weight each, lbs	5½	10	12	14	18	22
Each	$4 00	4.60	5.55	6.80	8.60	11.10

*For factory shipment only.

WHITE MOUNTAIN

TRIPLE MOTION, WITH FLY WHEEL

The fly wheel affords more leverage than a crank and makes freezer operate easier.

A regular pulley may be attached to shaft instead of fly wheel at an additional price.

Nos.	12 F	15 F	20 F	25 F
Capacity, quarts	12	15	20	25
Height, inch	19	19¾	21¾	24
Shipping weight each, lbs	75	80	85	105
Each	$27.55	31.60	40 60	51.55

WHITE MOUNTAIN

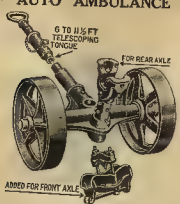
WITH CRANK

Capacity, qts	Toy ½	1	2	3	4	6	8
Height tub, inch	7¾	8¼	10¾	12½	13¼	15¼	16¾
Ship wt ea, lbs.	5	5½	12	14	15	23	26
Each	$3.35	4.85	5.65	6.75	8.25	10.45	13.50

Capacity, quarts	10	12	15	20	25
Height of tub inch	17½	19	19¾	21¾	24
Shipping weight each, lbs	29	47	54	58	77
Each	$18 00	21.55	25.60	33.20	42.60

WEAVER GARAGE EQUIPMENT

AUTO AMBULANCE



For Disabled Automobiles

The Weaver Auto Ambulance is a thoroughly practical and universal device for economically transporting disabled automobiles to the repair shop. It is extremely strong, but all unnecessary weight has been eliminated, so that it may be placed in the service or towing car and carried to the wreck. By removing or replacing one bolt, the tongue may be taken from or placed into the Ambulance frame.

It can easily be handled by one man and can be quickly and securely attached to either the front or rear axle of any car. The height of the standard may be varied as conditions demand, by a heavy pin. The length of the tongue may be varied at will, from 6 feet to 11½ feet.

Provision is made for attaching the axle of the car firmly to the Ambulance, so as to prevent any play at the connection. The main frame housing is designed with provision for placing the standard, either in front of the Ambulance axle or back of it, which is vitally important for a universal towing device.

Fourteen-inch cast steel wheels with three-inch face and roller bearings enable this Ambulance to withstand the severest service and to tow very heavy loads.

The construction throughout is extremely strong, but designed to eliminate all unnecessary weight. Telescoping tongue is of double strength steel tubing; 1¼-inch steel axle extends entirely through the malleable iron frame; malleable iron saddles; 20-inch tread.

Weaver Auto Ambulance—Shipping weight complete, 140 lbs. ..... Each, $60.00

TOWING POLE

A Rigid Cushioned Coupling for Towing Automobiles

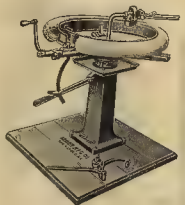
The danger and inconvenience of towing disabled cars is practicaly eliminated by the Weaver Towing Pole.

The heavy coil spring is applied in such a manner that it cushions both pulling and ramming shocks so that there is no jerk or jar on either car. The connecting clamps are equipped with heavy steel chains, 30 inches long, with a secure spring-latch.

The Pole telescopes and is adjustable from 5 feet 6 inches to 8 feet. It is made of double strength steel tubing.

Weaver Towing Pole—Shipping weight, 30 lbs. Each, $20 00

UNIVERSAL TIRE CHANGER



For dismounting and remounting all styles and sizes of pneumatic automobile tires.

The most difficult tires can be changed in a small fraction of the time usually required by more primitive methods.

Every operation in the handling of tires by this Universal Tire Changer is done by means of smooth finished rollers. There is positively no possibility of injuring either the casing or rim, even in the most stubborn cases.

No Pounding, No Jamming, No Cutting

This equipment has been very carefully designed, with a view of eliminating the separate individual tools which have been so common, and to have a compact, easily operated machine that will perform all operations with the fewest number of parts.

Weaver Universal Tire Changer—Shipping weight, 180 lbs. ..... Each, $120.00

AUTO HOIST

Single or Double Suspension—Worm Hoist—Ball and Roller Bearing Casters

One of the most convenient and useful articles of garage equipment on the market. Note particularly the unobstructed space under the car, allowing ample room for two or more mechanics to work with absolute freedom.

The peculiar design of this Hoist permits it to be operated in very cramped quarters. It can be run into position over a car in a crowded shop without requiring more than 12 to 14 inches space on either side of the car.

The frame is designed so as to permit the height of the arch to be increased approximately 12 inches, allowing the uprights to be raised to the desired height in the braces on either side, by means of the chain hoist. This increased height enables the Hoist to raise the rear end of a limousine or a touring car with the top up, for removing the rear system.

One chain of the Hoist may be carried over the pulley in the center of the frame for performing work which can be handled to better advantage by a single suspension than by a double suspension from each corner of the frame, as shown in illustration.

Each chain before being mounted in the Hoist is subjected to an individual test.

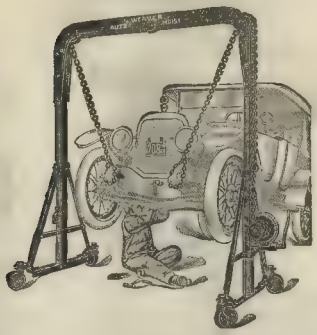
The hoisting mechanism is operated by worm drive, which is absolutely safe and positive. There are no gears nor ratchets to slip or break and allow the load to fall.

Weaver Auto Hoist is carried upon four ball and roller bearing casters 5 inches in diameter. The construction throughout is of steel, giving the greatest possible strength in comparison with its height. Height, 8 feet to 9 feet.

Weaver Auto Hoist—Shipping weight, 575 lbs. Each, $200 00

SEATTLE HARDWARE COMPANY

Kelley-How-Thomson Co. of Duluth
AUTO HOISTS



WEAVER

Single or Double Suspension—Safety—Worm Hoist—Ball and Roller Bearing Casters

This is one of the most convenient and useful articles of garage equipment on the market. Note particularly the unobstructed span under the car, allowing ample room for two or more mechanics to work with absolute freedom.

OCCUPIES SMALL AREA

The peculiar design of the Hoist permits it to be operated in very cramped quarters. It can be run into position over a car in a crowded shop without requiring more than 12 to 14 in. space on either side of the car. Contrast this with the space required to transport the ordinary type of crane sometimes employed for work of this kind.

GREAT RANGE OF APPLICATION

There is no work which can be performed by the ordinary block-and-tackle or crane which cannot be performed to better advantage by the Weaver Auto Hoist. This Hoist can also be adapted to many conditions absolutely impossible to meet with the equipment mentioned above.

TELESCOPING FRAME

The frame of the Weaver Auto Hoist is designed so as to permit the height of the arch to be increased approximately 12 in. allowing the uprights to be raised to the desired height in the braces on either side, by means of the chain hoist. This increased height enables the Hoist to raise the rear end of a Limousine or a Touring Car with the top up, for removing the rear system.

SINGLE SUSPENSION

One Chain of the Hoist may be carried over the pulley in the center of the frame for performing work which can be handled to better advantage by a single suspension than by a double suspension from each corner of the frame.

SAFETY

In designing this Hoist we have taken particular pains to provide a very great margin of safety. The all-steel construction throughout is much heavier and stronger than is absolutely necessary to enable it to satisfactorily perform the work demanded of it in the ordinary garage.

Each Chain, before being mounted in the Hoist, is subjected to an individual test.

The hoisting mechanism is operated by worm drive which is absolutely safe and positive. There are no gears nor ratchets to slip or break and allow the load to fall.

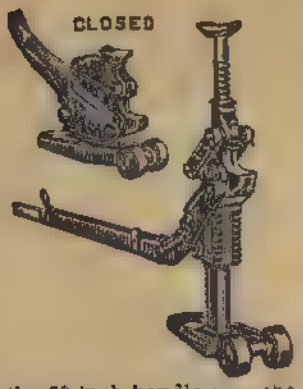
CONSTRUCTION

Weaver Auto Hoist is carried upon Four Ball and Roller Bearing Casters 5 in. in Diameter which permit it to be transported with perfect ease. The construction throughout is of Steel, giving the greatest possible strength in comparison with its weight.

Ea ch

Weaver Auto Hoist—Height 8 ft. to 9 ft.; Shipping Weight About 500 Lbs. $125.00

GARAGE JACKS
RANDALL



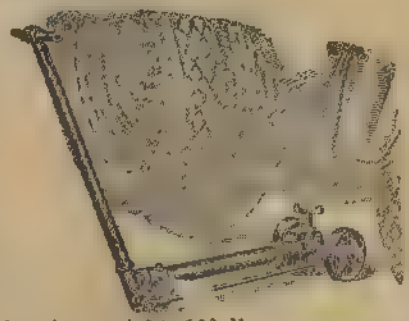
A heavy tool made to stand up under the continuous knocks of the garage and service station, and to meet the demand for a powerful, substantially built, quick acting device capable of doing heavy work efficiently and, well. Leverage of handle 60 inches. Capacity 2000 to 3000 lbs. Lowest lift main jack, 10½ inches; highest lift, 24½ inches; lowest lift to extension, 4½ inches; highest lift, 15 inches.

Action

One upward motion lifts the swivel head or housing into proper position. One downward sweep of the 60-inch handle lifts the car instantly. Releasing the tripping latch permits of lowering the load. Upward kick on ball pawl drops housing and the jack can be withdrawn.

No. A-6110 .....**Each $25.00**

NEW-WAY
WEAVER



A strong, compact, easily operated, quick actioned lifting and transporting jack. Length of frame and wheels over all is only 40 inches. The great distinguishing feature of this jack is the pivoting wheels that are guided and controlled by the handle. The enormous leverage of this jack enables one man to lift 5000 lbs with perfect ease. Capacity, 5000 lbs; maximum lift, 19 inches; shipping weight, 100 lbs.

F. o. b. factory.....**Each $54.00**

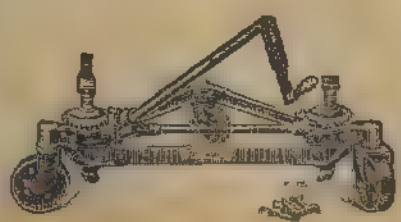
AUTO TWIN
WEAVER

Provides the most efficient and practical means of handling complete or dismantled automobiles in the garage, or repair shop. With this one man can readily manipulate a car in any desired manner. Designed to take either front or rear axle of the car even though the latter be equipped with truss rods. 34 inches between wheels; lifting leverage, 400 to 1; capacity, 4000 lbs; shipping weight, 50 lbs.

F. o. b. factory .....**Each $24 00**

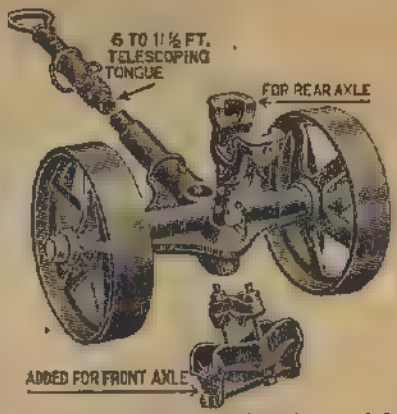
EXTRA HEAVY AUTO TWIN
WEAVER

Identical in principle with the small car size auto twin jack, but has twice the strength and capacity. Extra large 6½-inch wheels with roller bearings enable heavy loads to be transported over comparatively rough floors. Capacity 8000 lbs; shipping weight, 110 lbs.



F. o. b. factory.....**Each $41.25**

AUTO AMBULANCE
WEAVER



Invaluable for transporting disabled automobiles to the repair shop. Can be quickly and securely attached to either the front or rear axle of any car. The height of the standard may be adjusted as conditions demand and the length of the telescoping tongue can be varied at will from 6 to 11½ feet. Equipped with cast steel wheels 14 inches in diameter with 3-inch tires. Telescoping tongue is of double strength steel tubing and adjusts every 6 inches to 11½ feet. Shipping weight, 140 lbs.

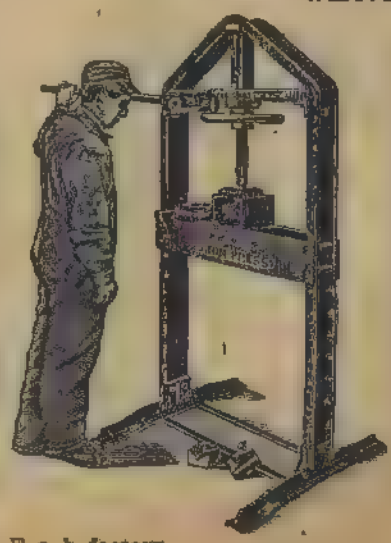
F. o. b. factory.....**Each $57.00**

TOWING DOLLY
KIMKIN

The large annular ball bearings on which it rolls, combined with its rugged construction, make an assembly which will tow the lightest touring car or the heaviest truck with ease and safety. The material and construction of the Kimkin dolly make it practically indestructible. Ball bearing wheels, heavy cast brass hub caps and grease retainers. It is equipped with 15x3½-inch Goodrich solid tires which make for easy riding over rough roads.

Net weight, lbs..... 275
Kimkin Dolly .....**Each $150.00**

TWENTY-TON PRESS
WEAVER



The design of the leverage mechanism supplies a leverage of 3000 to 1, which enables a pressure of 20 tons to be secured with very little effort. The bolster which carries the plate can be set at any desired height and will permit work of enormous size to be placed in the press when set at the bottom of the frame. The width between frame uprights is 32 inches. The frame is of one piece of heavy 5-inch channel steel, hand wheel is 15 inches in diameter, carried upon ball bearings. Screw is 2 inches in diameter and has a range of movement of 9 inches. The screw does not revolve. Floor space, 36 by 36 inches, height 74 inches. Shipping weight, 440 lbs.

F. o. b. factory.....**Each $135.00**

CONTINENTAL MOTOR STAND

A universal stand. Will handle Ford motors, three-point and four-point suspension motors, in fact any kind of passenger car, truck or tractor motor. The motor is placed in the stand the same way it is fitted in the car, assuming the natural position. All the necessary bolts and clamps to fasten the motor to the stand are furnished as part of the complete equipment. A Ford attachment and an attachment for holding three-point suspension motors are also furnished.

The stand is provided with strong double-wheel casters, and can be readily turned to any position to get the best light on such parts as need attention.

The Continental is the only stand on the market today in which you can fasten a complete Ford unit power plant direct to the stand and tear down or rebuild it without changing the stand. It is adjustable in height from 32 inches to 37 inches; in width, from nothing to 30 inches, and occupies a floor space of 29x36 inches when fully extended. Shipping weight, 290 lbs.

No. 14C27—Stand complete $85.00
No. 14C28—Stand less Ford attachment..... 76 00
No. 14C29—Stand for Fords only..... 77.25

CONTINENTAL REAR AXLE STAND

This stand is universal and will handle any and all types of axles both front and rear. Every shop that is doing repair work will find that one of these stands will pay for itself in a very short time and labor and time saved and in better workmanship. The stand is heavily constructed, is 34 inches in height and takes up a floor space of 12x22 inches. The grease pan is of heavy cast iron and is easily cleaned. The chain vise will take care of all sizes and types of axles, and being adjustable conforms to the shape of the housing. The support opposite the vise locks in position when in use and when separating a semi-floating axle it may be unlocked and drops down so as to allow one housing to be readily removed. Shipped knocked down, crated flat. Shipping weight, 180 lbs.

No. 14C32 ..... Each $52.75

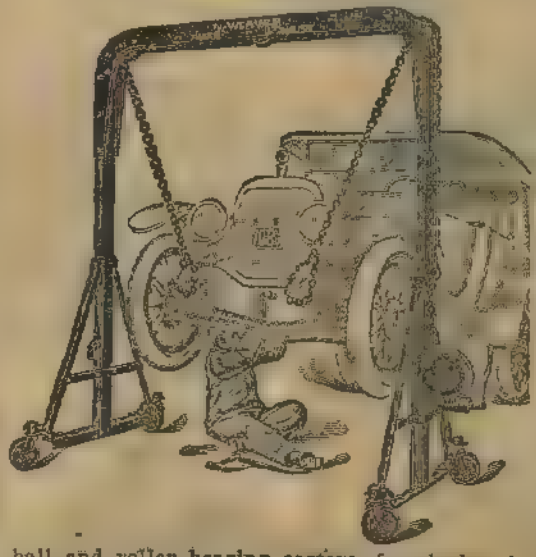
CONTINENTAL FORD ENGINE STAND

The only stand in which you can place a complete Ford unit power plant, and tear it down to the stripped cylinder block and rebuild it without having to change its position on the stand. In fact, it is the only stand on the market that will handle the complete Ford power plant. After the complete motor is placed in the Continental Ford Engine it can be turned to any position and firmly locked. It is of heavy construction; many parts are built of steel. Every stand is portable, malleable casters being used. The height is 34 inches, which is correct for efficient wo[illegible] Shipped knocked down, carried flat. Shipping weight, 140 lbs.

No. 14C30 ..... Each $45.75

AUTO HOIST

Single or Double Suspension, Safety Worm Hoist, Ball and Roller Bearing Casters.



The frame of this hoist is designed so as to permit the height of the arch to be increased approximately twelve inches. This increased height enables the hoist to raise the rear end of a limousine or a touring car with the top up. The hoisting mechanism is operated by worm drive, which is absolutely safe and positive. The hoist is carried upon four ball and roller bearing casters, five inches in diameter, which permits it to be removed with perfect ease. The frame is of 5-inch channel steel. Height 8 to 9 feet. Capacity 3000 lbs. from the center 1500 lbs.

Shipping weight, lbs..... 575
Each—F. o. b. factory..... $125.00

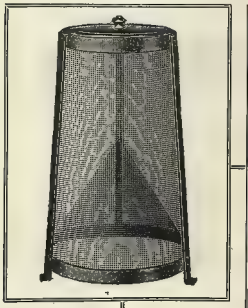
THE
Higher Averages
AND
Longer Runs
that are made with the

Western
"Field" Patented Steel-Locked **Shell**

bespeak its Quality and account for the Year-Round Demand which it enjoys.

There is no closed season on clay pigeons; there is no dull season in the "Gun Department" where this famous shell is carried.

WESTERN CARTRIDGE COMPANY, EAST ALTON, ILLINOIS



"Perfect" Fly Traps

With milk, sugar and food products at such high prices a bitter war will be waged on flies this season.

It is cheaper to catch flies in The "Perfect" Traps than to pay for the loss they are sure to cause if allowed to roam.

Sell the traps that are noted for their record catches and which are sanitary as well as easy to set and clean.

Your Jobber will supply you.

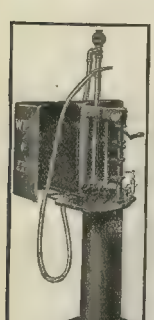
Ludlow-Saylor Wire Co.

St. Louis Mo.

5236

Kelley-How-Thomson Co. of Duluth

GASOLINE STORAGE OUTFITS



Open

WESTERN ROADWAY

Pumps and Tanks are Tested, Inspected and Labeled by the National Board of Fire Underwriters

Cabinet—The Cabinet Encasing Pump is Built of $\frac{5}{16}$ inch Iron; the Doors Overlap, making it Weather Proof; Doors are Fitted with Best Corbin Six-Tumbler Lock; a Small Door at Bottom of Pedestal Gives Access to Pipe Union.

Pump—Is of our Long Distance Type, Adjusted to Measure Gallons, Half-Gallons, Quarts or Pints at a Stroke; is Built Entirely of Metal with Cylinders, Valves, Plunger Rod and Stuffing Box of Brass; Cut Steel Gears; Balance of Pump is of Heavy Cast and Wrought Iron; Requires but Two and One-half Turns of the Handle to Discharge a Gallon, Giving Pumping Capacity of 13 Gallons per Minute.

Gallon Meter—Keeps an Accurate Check on All Gasoline drawn up to 9999 Gallons, at which point it reverts to 0000, making it a Continuous Meter. Every Tenth of a Gallon is Shown in Red Figures, so Value of Oil may be computed in 10ths if sold in small quantities.

Gravity Filter—Is Attached Below Pump Cylinder and made an integral part of Pump. It Strains the Gasoline from Water and other Impurities, which Gravitate to Settling Chamber and is Drawn Off Through Auxiliary Pump which is Attached to Pump Plate. This Pump is Securely Locked when not in use.

Discharge Register—This Device Automatically Tallies Every Gallon Pumped from 0 to 10 Gallons and is Reversible from Any Point.

Independent Discharge Nozzles—Pump is Fitted with Discharge Openings on Either Side, One for Attaching Hose, the Other for Filling Cans, the Discharge Openings being Entirely Independent of Each Other

With Indicator Adding

Hose Draining Valve—The 1 inch Discharge Pipe Extends 24 inches Above Pump and Terminates in a Hose Draining Valve that Automatically Shuts Off the Supply and Allows the Hose to Drain Out Clean.

Hose and Filling Nozzle Each Outfit comes Equipped with 5 ft. of 1 inch Steel Lined Hose and Open Type Filling Nozzle with Strainer. Filling Nozzle End of Hose is Locked in Cabinet when Not in Use.

Automatic Door Stop—Holds Door Rigid While Operating Pump.

Removable Pump Handle—Handle Can be Slipped Off and Carried in the Building, Making Pump Fool and Meddler Proof.

Quantity Stops—Are Located in Front on Pump Standard; to Change Measurements, it is but Necessary to Push in the Nickeled Disc Stamped with the Quantity Desired, Give Grip Stroke of the Handle and the Exact Amount is Obtained.

Finish Pump and Cabinet are Highly Finished in Vermilion Enamel with Gold Lettering and Nickel Trimming.

Tanks—Are Built in Any Capacity of Either 12 or 14 Gauge Galvanized Steel, Riveted and Soldered Throughout.

COMPLETE OUTFITS

Consisting of Pump and Tank, Complete with Fittings, but No Pipe

With 12 Gauge Tank

Nos.	Capacity		Weight, Lbs.	Each
	Bbls.	Gals.		
49A-2	2	126	650	$225.00
49A-3	3	170	720	240.00
49A-4	4	230	790	255.00
49A-5	5	280	860	270.00
49A-6	6	335	930	285.00
49A-7	7	390	1000	300.00
49A-8	8	445	1070	315.00
49A-9	9	500	1140	330.00
49A-10	10	550	1210	345.00

With 14 Gauge Tank

Nos.	Capacity		Weight, Lbs.	Each
	Bbls.	Gals.		
49B-2	2	126	610	$214.50
49B-3	3	170	670	226.00
49B-4	4	230	730	238.00
49B-5	5	280	790	250.00
49B-6	6	335	850	262.00
49B-7	7	390	910	274.00
49B-8	8	445	970	286.00
49B-9	9	500	1030	298.00
49B-10	10	550	1100	310.00

WITH ELECTRIC LAMP

No.		Each
49E	When so Ordered Pump is Equipped with Electric Lamp Entire Cabinet is Wired Ready for Connecting to Local Circuit	$25.00

WRENCHES

DROP FORGED

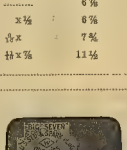
The Wrench Sets shown on this page and on the following pages are particularly adapted for the automobilist, the garage and the machine shop. Each wrench is fully described with the idea of making it easy to make the right selection.

Finished Versus Semi-Finished Wrenches—The manufacturer of Drop Forged Wrenches informs us that the only difference between the finished and semi-finished wrenches is that the finished wrench has the mottled polished finish. In all other particulars, such as case hardening, accuracy and utility, the semi-finished wrench is equal to the finished.

No. 4 Williams Set—"The Big Six"—15° Angle

Fitting U. S. Std Nuts ¼ to ¾ in. inclusive; U S Std. Cap Screw Heads ¼ to 1 in. inclusive, S. A. E. Nuts and Cap Screw Heads ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾ and ⅞ in.; A. L. A. M. Nuts and Cap Screw Heads 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16 and ⅞ in.

No.	Opening, Size, In.	Fits U. S. Std. Nuts.	Fits U. S. Std. Cap Screws.	Fits S. A. E. Nuts and Cap Screw Heads.	Fits A.L.A.M. Nuts and Cap Screw Heads.	Extreme Length.	Thickness Head.	Each, Unfinished.	Each, Semi-Finished.	Each, Finished	No.
725	5/16 x ½	x¼	¼ x 5/16	½ x 5/16	x 5/16	4⅝	5/32	$0.17	$0.25	$0.38	725
27C	⅜ x 11/16	x⅜	⅜ x	⅜ x	⅜ x 7/16	5⅝	7/32	.21	.31	.46	27C
28	11/16 x 11/16	⅜ x 7/16	.....	.....	.....	6⅜	11/32	.25	.37	.56	28
729	⅝ x ⅝	.....	7/16 x ½	7/16 x ½	x ½	6⅞	11/32	.25	.37	.56	729
34	⅞ x 1 7/16	½ x ⅝	⅝ x	7/16 x ⅝	7/16 x	7⅝	½	.46	.68	1.03	34
736	1x1 ¼	x⅝	⅝ x1	11/16 x ⅝	11/16 x ⅝	11½	5/16	.66	.96	1.40	736
Set No. 4—Wrenches Only							Per Set,	$2.00	2.94	4.44	
Set No. 4—In Canvas Roll							" "	2.45	3.39	4.89	



No. 7 Williams Set—"Big Seven"—15° Angle

Has same capacity as the No. 4, with the additional feature of having the No. 993 Spark Plug Wrench which fits ½ in. Spark Pluga.

No	Opening, Size, In	Fits U. S. Std Nuts	Fits U. S. Std. Cap Screws	Fits S. A. E. Nuts and Cap Screw Heads	Fits A.L.A.M Nuts and Cap Screw Heads.	Extreme Length	Thickness Head	Each, Unfinished	Each, Semi-Finished.	Each, Finished	No
735	5/16 x ½	x¼	¼ x 5/16	¼ x 5/16	x 5/16	4⅝	5/32	$0.17	$0.25	$0.38	725
27C	⅜ x 11/16	x⅜	⅜ x	⅜ x	⅜ x 7/16	5⅝	7/32	.21	.31	.46	27C
28	11/16 x 11/16	⅜ x 7/16	.....	.....	.....	6⅜	11/32	.25	.37	.56	28
729	⅝ x ⅝	.....	7/16 x ½	7/16 x ½	x ½	6⅞	11/32	.25	.37	.56	729
34	⅞ x 1 7/16	½ x ⅝	⅝ x	7/16 x ⅝	7/16 x	7⅝	½	.46	.68	1.03	34
736	1x1 ¼	x⅝	⅝ x1	11/16 x ⅝	11/16 x ⅝	11½	5/16	.66	.96	1.40	736
993*	7/16 x ⅝	x½	⅝ x ⅝	⅝ x 7/16	⅝ x 7/16	8	11/32 x ⅜	.40	.58	.85	993

*No. 993 Fits ½ -in. Spark Plug.

Set No. 7—Wrenches Only	Per Set,	$2.40	3.52	5.29
Set No. 7—In Canvas Roll	" "	2.85	3.97	5.74

All wrenches shown on this page stocked in Semi-Finished and Finished only. Unfinished can be furnished from factory.
All sets furnished in Rolls unless otherwise specified.
Semi-Finished Wrenches furnished unless otherwise specified.

SEATTLE HARDWARE COMPANY

WRENCHES

DROP FORGED

Nos. 5-S and 42-S.

No. 2-S.

No. 5-S—S. A. E. Williams Set—15° Angle

Fitting S. A. E. Nuts and Cap Screw Heads ¼ to ⅞ in. inclusive; A. L. A. M. Nuts and Cap Screw Heads ⅛, ⅜, ½, ⅝, ⅝, ⅔ and ⅞ in.; U. S. Std. Nuts ¼, ½, ⅝ and ¾ in.; U. S. Std. Cap Screw Heads ¾ to 1 in. inclusive.

No.	Opening	Fits U. S. Std. Nuts	Fits U. S. Std. Cap Screw	Fits S. A. E. Nuts and Cap Screw Heads	Fits A. L. A. M. Nuts and Cap Screw Heads	Extreme Length.	Thickness Head.	Each, Unfinished.	Each, Semi-Finished.	Each, Finished.	No.
725	⅛ x ½	x ¼	¼ x ⅛	¼ x ⅛	¼ x ⅛	4 ⅝	2/32	$0.17	$0.25	$0.38	725
727	⅛ x ⅝	...	⅜ x ⅛	⅜ x ⅛	⅜ x	5 ⅜	1/16	.21	.31	.46	727
731A	⅜ x ⅜	x ½	½ x ⅜	½ x ⅛	½ x ⅛	7 ⅝	1/8	.30	.45	.68	731A
33C	1/8 x 1	...	x ⅜	⅝ x 1/8	⅝ x 1/8	8 ⅜	1/16	.37	.55	.85	33C
37	1 1/16 x 1 ¼	⅝ x ⅜	x 1	⅝ x ⅜	x ⅜	11 ½	1/8	.66	.96	1.40	37
No. 5-S Set—Wrenches Only								$1.71	2.52	3.77	
No. 5-S Set—In Canvas Roll								2.16	2.97	4.22	

No. 42-S Williams Thin Auto Wrench Set

No.	Openings Milled.	For S.A.E. Std'ard Nuts and Cap Screws	For U. S. Standard Nuts.	For Cap Cap Screws.	Extreme Length.	Thickness Heads.	Unfinished.	Semi-Finished.	Finished.	No.
623D	⅛ x ½	¼ x 1/8	¼	¼ x ⅛	4 ⅝	9/64 x 1/8	$0.17	$0.26	$0.38	623D
626S	⅛ x ⅝	⅜ x 1/8	.....	⅜ x 1/8	5 ½	1/8 x 1/8	.22	.33	.48	626S
629E	⅜ x ⅜	½ x 1/8	⅛	½ x ⅜	6 ⅛	⅛ x ¼	.28	.40	.60	629E
632X	⅜ x 1/2	⅝ x 1/8	.....	⅝	8 ⅛	⅛ x ⅛	.40	.56	.80	632X
637	1 1/8 x 1 ⅛	⅝ x ⅜	⅝ x ⅜	1	10 ⅜	1/8 x ⅜	.60	.84	1.16	637
No. 42-S Set—Wrenches Only							$1.67	2.37	3.41	
No. 42-S Set—In Canvas Roll							2.12	2.82	3.86	

No. 2-S—S. A. E. Williams Set—Light "S" Wrenches—22½° Angle

This Set has the same capacity as the No. 5-S Set, the difference being in the style of wrenches

No.	Opening.	Fits U. S. Std. Nuts	Fits U. S. Std. Cap Screw	Fits S. A. E. Nuts and Cap Screw Heads.	Fits A. L. A. M. Nuts and Cap Screw Heads	Extreme Length.	Thickness Head.	Each, Unfinished.	Each, Semi-Finished	Each, Finished	No.
677S	1/8 x ½	x ¼	¼ x 1/8	¼ x 1/8	x 1/8	7 ¼	1/8	$0.23	$0.34	$0.47	677S
679S	1/8 x ⅝	.....	⅜ x 1/8	⅜ x 1/8	⅜ x	8 ¼	1/8	.29	.43	.58	679S
681A	⅜ x ⅜	x ½	½ x ⅜	½ x 1/8	½ x 1/8	9 ¼	1/8	.38	.55	.72	681A
683A	1/8 x 1	.....	x ⅝	⅝ x 1/8	⅝ x 1/8	10 ⅝	1/8	.50	.70	.90	683A
685C	1 1/8 x 1 ⅛	⅝ x ⅜	x 1	⅝ x ⅜	x ⅝	12	1/8	.70	1.00	1.30	685C
No. 2-S Set—Wrenches Only								$2.10	3.02	3.97	
No. 2-S Set—In Canvas Roll								2.55	3.47	4.42	

No. 3 Williams General Service Set—Light "S" Wrenches—22½° Angle

Fitting U. S. Standard Nuts ¼, ⅜, ½ and ¾ in.; U. S. Standard Cap Screw Heads ⅜ to 1 in inclusive; S. A. E. Nuts and Cap Screw Heads ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾ and ⅞ in.; A. L. A. M. Nuts and Cap Screw Heads ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾ and ⅞ in.

No.	Opening	Fits U. S. Std. Nuts	Fits U. S. Std. Cap Screw.	Fits S. A. E Nuts and Cap Screw Heads.	Fits A. L. A. M Nuts and Cap Screw Heads.	Extreme Length.	Thickness Head.	Each, Unfinished.	Each, Semi-Finished.	Each, Finished.	No.
675B	⅜ x 1/2	.....	⅜ x ¼	x ¼	x ¼	6 ¼	¼	$0.13	$0.27	$0.38	675B
677B	½ x 1/2	½ x ⅜	1/2 x ⅜	5/16 x ⅜	5/16 x ⅜	7 ¼	2/8	.23	.34	.47	677B
679	⅝ x 1/2	x ⅜	5/16 x	7/16 x	x 7/16	8 ¼	5/16	.29	.43	58	679
681B	⅝ x 1/2	.....	½ x 5/16	½ x	½ x	9 ¼	⅜	.38	55	72	681B
683B	⅝ x1	½ x	⅝ x ⅜	11/16 x 5/16	11/16 x 1/2	10 ⅝	7/16	50	70	90	683B
685B	1 1/16 x1 1/4	x ⅝	⅝ x1	x ⅝	⅝ x ⅜	12	½	70	1 00	1 30	685B
No. 3 Set—Wrenches Only								$3.28	3.29	4 35	
No. 3 Set—In Canvas Roll								3.73	3.74	4.80	

All wrenches shown on this page stocked in Semi-Finished and Finished only. Unfinished can be furnished from factory

All sets furnished in Rolls unless otherwise specified.

Semi Finished Wrenches furnished unless otherwise specified.

CLEAVERS AND CHOPPERS

WM. BEATTY & SONS

Heavy Steel Blade. Varnished Hickory Handle.

ORIGINAL BUTCHER

Cleavers

Choppers

Nos.	8	10	11	12	13	14	15
Size, Nos.	00	0	1	2	3	4	5
Cut, Ins..	6	7	8	9	10	11	12
Wt. Doz., Abt Lbs	16	24	30	37½	45	54	61
Per Doz..	$30 00	33 00	36 00	40 00	44 00	48 00	52 00
	$42.00	46.20	50.40	56.00	61.60	67.20	72.80

Nos.	28	29	30	31	32
Size Nos	000	00	0	1	2
Cut Ins	6	7	8	9	10
Wt., Doz., Abt Lbs..	14½	18	24	27	33
Per Dozen	$26 00	29 00	32 00	36 00	40 00
	$41 60	46.40	51.20	57.60	64.00

NEW YORK PATTERN. FLAT HANDLE RIVETED

Market Cleavers

Nos.	037	038	039	040
Cut Ins	7	8	9	10
Length Handle, Ins	6	7	8	9
Per Dozen	$35 00	38 00	42.00	46 00
	$56.00	60 80	67.20	73.60

Butcher's Choppers

Nos.	047	048	049	050
Cut, Ins..	7	8	9	10
Length Handle, Ins.	8	9	10	10
Per Dozen	$49.00	54.40	60.80	67.20

Half dozen in a crate

FAMILY CLEAVERS

CLYDE

Carefully Tempered and Ground to a Sharp Edge, Full Polished Tang Extends Through Handle. Solid Cocobola Handle, with Three Large Head Brass Telescope Rivets

Hand Forged From a Special Grade of Cleaver Steel, Thickness at Back Tapering From ¼ to ⅜ Inch Length of Blade, 8 Inches Width, Tapering From 3 Inches at Front to 2½ Inches at Handle

Per Dozen

No. 1044—Weight, per dozen, about 16 pounds $14.30

Hand Forged From Special Grade Steel, ¼ Inch Thick at Back Length of Blade, 8 Inches, Width, Tapering From 2 Inches at Front to 1½ Inch at Handle.

Per Dozen

No. 1025—Weight, per dozen, about 14 pounds $8.70

Made From 14 Gauge Special Grade Steel Blade Ground with Bevel Edge and Full Polished Solid Cocobola Handle Two Large Head Brass Telescope Rivets Width, Tapering From 2¼ Inches at Front to 2 Inches at Handle. Length of Blade, 6 Inches.

Per Dozen

No. 1077—Weight, per dozen, about 6 pounds . . $6.40

Half dozen in a box.

HANDLED SINGLE BIT AXES

WM. PENN

NEW GUN METAL FINISH

In the Manufacture of these Axes, the Very Finest Quality of High Carbon Cuticle Axe Bit Steel is Used. Guaranteed Against Flaws in the Steel or Softness. Accurately and Uniformly Punched Eyes, Each Axe Attractively Etched in Deep White Letters. Wrapped in Strong Waterproof Paper Bearing Label and Giving Weight.

PHILADELPHIA JERSEY PATTERN

Bent Oval Handles No. 1

Weights, Assorted, Lbs	2 to 2½	2½ to 3	3 to 3½	3½ to 4½	4 to 5
Length Handles	32	32	32	34	34
Per Dozen	$39.00	39.60	39.60	39.50	40.80

One dozen in a box, handles burlapped

ROCKAWAY PATTERN

Bent Oval Handles No. 1

Weights, Heads, Assorted, Lbs	3½ to 4
Length of Handles	32
Per Dozen	$39.50

One dozen in a box, handles burlapped

If It's Automobile Accessories

We Have It

Large Line shown in our 350 Page Automobile Accessory Catalog

HANDLED SINGLE BIT AXES

BLUE JEANS

The Famous Blue Jeans—Manufactured from High Carbon Axe Steel Guaranteed Against Flaws. Accurately Punched Eye. Beautiful Light Blue Painted Body. Polished Bit and Poll. Each Axe Bears an Attractive Blue Jeans White and Black Label

SOUTHERN KENTUCKY PATTERN

Bent Oval Handles No. 1

Weights, Heads, Assorted, Lbs		
Length of Handles	4 to 5	4½ to 6
Per Dozen	36	36
	$38.00	**38.50**

One dozen in a box, handles burlapped

BALTIMORE JERSEY PATTERN

Bent Oval Handles No. 1

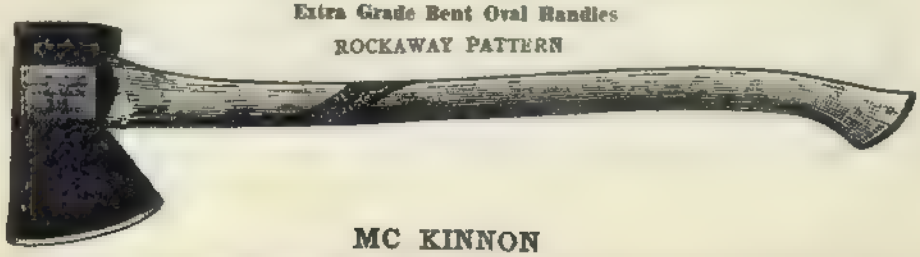
Weights, Heads, Assorted, Lbs			
Length of Handles	3½ to 4½	4 to 5	4½ to 5½
Per Dozen	34	36	36
	$37.50	**38.00**	**38.50**

One dozen in a box, handles burlapped.

PAINTED BLACK BODY AND POLL. POLISHED BIT.

Extra Grade Bent Oval Handles

ROCKAWAY PATTERN



MC KINNON

Made from the Best Quality of Raw Materials, Thoroughly Hammered to Produce Keenest Possible Cutting Qualities Steel Inserts in Heads or Poll to Form Bits. Ground to Cutting Edge Before Leaving Factory Therefore Ready for Immediate Use. Guaranteed Against All Inherent Defects. Each Axe Bears an Attractive Label. Very Carefully Handled by Experienced Workmen with Extra Quality, Selected Hickory Handles

Weights, Heads, Assorted,	
Length of Handles	3½ to 4½
Per Dozen	36
	$40.00

E-Z Ball Washer

HIGH SPEED BALL BEARING

In the construction of the "E-Z" Ball Bearing High Speed Washing Machine, we have embodied every possible convenience and advantage that mechanical ingenuity and skill can produce in a high-class washing machine.

During our forty years' experience in the manufacture of highest quality family sewing machines, with which the whole world is now familiar, we have established an enviable reputation. This same skill and ingenuity this invaluable experience of two score years, has enabled us to produce the "E-Z" Washer a machine that stands at the head of all strictly first-class, high speed washers

All metal parts are finished with the electro galvanizing process—it is an attractive finish that will not wear and cannot rust

The "E-Z" Washing Machine runs so easily that a mere child can operate it

The "E-Z" Washing Machine is guaranteed against defective workmanship and material for a period of five years.

The tub is strongly built of well finished, select material—with reasonable care it will last for years.

The ball bearing is a simple and most effective device. It is absolutely the easiest running bearing that can be made, and is so constructed that it will wear for years without oiling or adjustment.

The compound lever construction in connection with the Walking Beam, and the exclusive ball bearing gives the "E-Z" such a decided advantage that it requires but one-half the labor to operate it that is necessary with other makes

This style, namely the high speed washer with balance wheel, has proved to be the most practical and easiest running washing machine devised The improvements we have embodied in the "E-Z" Washer, place it in the van of machines of this particular type

Capacity—Standard family size washing, six sheets or their equivalent in other clothes. A wringer box is provided so any hand wringer can be attached to the tub. Shipping weight about 110 lbs. Shipped from Illinois Factory

B-106 E-Z Washer **$17.95**

"Wonder" Power Washing Machine

FOR POWER OR HAND

ALL GEARS ENCLOSED

FULLY GUARANTEED FOR FIVE YEARS

Superiority in construction, operation, workmanship and finish is what we claim for our "Wonder" Power, or hand, Washing Machine. **FINISH.** The tub is made of the very best quality of selected Cypress—"the wood everlasting." Cypress will last longer and give better satisfaction in a washing machine than any other wood. The tub is finished nicely with legs being well braced to prevent breakage. It is especially heavily reinforced at top, making it impossible to warp Can be used with power or by hand. The handle is easily reached and allows operator to work machine by hand while standing or sitting. The machine is beautifully finished, and fully guaranteed for five years. Shipping weight about 95 pounds.

Carefully crated and shipped direct to you from Iowa Factory.

B-2316—"Wonder" Power Washing Machine.....

FOR ADDITIONAL WASHING MACHINES SEE PAGE 123.

E-Z Vacuum Washer

The E-Z High Speed Vacuum Washer embodies all of the features and improvements necessary in a modern washer of the highest type. These are—strength and simplicity of construction, extreme ease of operation, durability, good appearance and excellent finish. The simple, compact mechanism is attached to the cover and is so evenly balanced that the cover may be opened and closed with minimum effort All metal parts have rust-proof, electro galvanized finish, which will last for years.

The Vacuum Cups. The clothes are thoroughly cleansed by the three large vacuum cups, which force the hot suds THROUGH the clothes, while by means of an ingenious indexing device the position of the cups is changed at every stroke, so that all the clothes are thoroughly washed. The finest and tiniest articles can be washed without damage, as the cups are perfectly smooth and the clothes cannot catch on them and be torn

The Tub is made of the very best quality of selected Southern cypress— the wood everlasting." Cypress will last longer and give better satisfaction in a washing machine than any other wood The tub is finished nicely with good quality varnish and is very strong in construction, the continuous legs being well braced to prevent breakage.

Ease of Operation. This machine runs so easily that it can be operated without extra effort by a child of eight or nine years of age. When loaded it runs as easily as do most machines when empty

Shipping weight about 110 lbs. Shipped from Illinois Factory.

B-107 E-Z Vacuum Washer..... **$18.50**

VACUUM POWER WASHER

With Swinging Wringer

For Engine or Electricity

Our Vacuum Power Washer is constructed of the very best of materials and is positively guaranteed to wash any and all clothes as clean as any washer on the market regardless of price. It can be operated by gasoline engine or motor. It is a machine which pleases every careful housewife. It washes the finest laces, lace curtains, silk shirts, shirt waists, as well as all heavier and all colored clothes Many are the days and hours you will rejoice having selected this pattern. The machine is well built, strong and durable and operated exclusively by gears. By raising the lid the washer stops and by lowering it, it starts.

The dome shaped vacuum cup 10¾ inches in diameter, made from one-piece galvanized steel with an extra air chamber soldered inside, makes about 95 strokes, each 4 inches long, per minute. This draws and forces the dirt out of the clothes without wearing or tearing them

Our machines possess every practical feature that the most exacting and careful purchaser demands, including a reversible wringer, special feature for stopping the machine, extra sliding rack and an adjustable height platform. This machine can be furnished with a 1-3 H. P. motor to be used with electricity. Note prices. They are guaranteed to perform the same service as machines selling for twice the price, and will out last many similar machines of their kind. Shipping weight 225 pounds. Shipped direct to you from Illinois factory.

B-8372—Vacuum Power Washer, complete..... **$52.50**

B-8373—Vacuum Power Washer, complete with 1-3 H. P. motor, cord and plug **$7.00**

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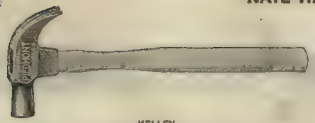
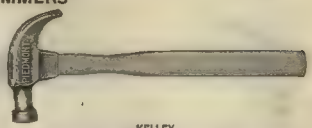
NAIL HAMMERS



KELLEY
Adze Eye, Curved Claw; Plain Face; Polished; Hickory Handles

Nos.	1½K	2K
Size	1½	2
Weight Each, Oz.	16	13
Per Dozen	$18.00	18.00

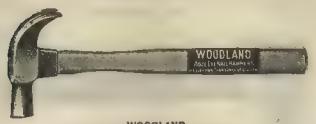
Half-Dozen in a Box



KELLEY
Adze Eye, Curved Claw; Bell Face; Polished; Hickory Handles

Nos.	11½K	12K
Size	1½	2
Weight Each, Oz.	16	121
Per Dozen	$18.00	18.00

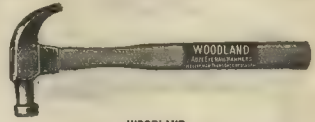
Half-Dozen in a Box



WOODLAND
Adze Eye, Curved Claw, Plain Face
Finely Polished; Hickory Handles

No.	11½W
Size	1½
Weight Each, Oz	16
Per Dozen	$10 50

Half-Dozen in a Box



WOODLAND
Adze Eye, Curved Claw, Bell Face
Finely Polished; Hickory Handles

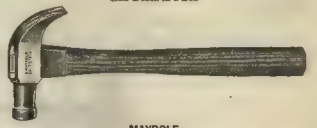
Nos.	11½W	12W	13W
Size	1½	2	3
Weight Each, Oz.	16	13	7
Per Dozen	$10.50	10.30	10.10

Half-Dozen in a Box

MAYDOLE
Adze Eye, Curved Claw; Plain Face, Full Polished; Varnished Hickory Handles

Nos.	1	1½	2
Size	1	1½	2
Weight Each, Oz.	20	16	13
Per Dozen	$25 60	23.40	21.95

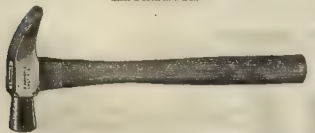
Half-Dozen in a Box



MAYDOLE
Adze Eye, Curved Claw; Bell Face, Full Polished; Varnished Hickory Handles

Nos.	11	11½	12	12½	13	14
Size	1	1½	2	2½	3	4
Weight Each, Oz.	19	16	12	10	7	5
Per Dozen	$25 60	23.40	21.95	20 50	19 50	18 50

Half-Dozen in a Box



MAYDOLE
Adze Eye, Ripping or Straight Claw; Plain Face; Full Polished; Varnished Hickory Handles

Nos.	701	701½
Size	1	1½
Weight Each, Oz.	20	16
Per Dozen	$25.60	23.40

Half-Dozen in a Box

MAYDOLE
Adze Eye, Ripping or Straight Claw; Bell Face; Full Polished; Varnished Hickory Handles

Nos.	711	711½	712
Size	1	1½	2
Weight Each, Oz.	19	16	12
Per Dozen	$25.60	23.40	21.95

Half-Dozen in a Box

NAIL HAMMERS

STANLEY

Adze Eye, Curved Claw; Bell Face, Round Neck, Round Poll, Polished, Hickory Handles

Nos.	12A	12B	12C	12D
Size	21/2	2	1½	1
Weight Each, Oz.	10	13	16	20
Per Dozen	$23.00	23 50	25.00	26 50

One-third Dozen in a Box

STANLEY

Adze Eye, Ripping or Straight Claw; Bell Face, Round Neck and Poll, Polished, Hickory Handles

Nos.	22C	22D
Size	1¾	1
Weight Each, Oz.	16	20
Per Dozen	$25.00	26.50

One-third Dozen in a Box

LADIES' PRIDE

Adze Eye, Curved Claw; Plain Face; Nickel Plated Cast Iron; Varnished Handles

No.	4LP
Size	4
Weight Each, Oz.	5
Per Dozen	$3.50

Half-Dozen in a Box

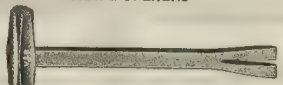
BLACK PRINCE

Adze Eye, Curved Claw: Bell Face; Octagon Neck and Poll, Full Nickel Plated, Cast Iron; Black Finished Handles

No.	11BP
Size	1½
Weight Each, Oz.	16
Per Dozen	$3 50

Half-Dozen in a Box

CRATE OPENERS

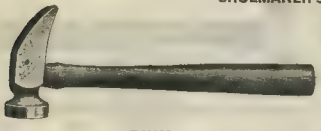


Used by Commission and Produce Merchants; In Wholesale and Retail Trade

Per Dozen

No. 13—Full Polished; Forged Steel, One Piece Head and Handle; Octagon Head, Checkered Face; Length Overall, 9 in $17 00
Weight per Dozen about 11 Lbs.

SHOEMAKER'S HAMMERS



ELMORE

Per Dozen

No. 501—Highest Grade Drop Forged Crucible Steel Head, Hardwood Handle; Length Overall, 10 in.; Weight of Head, 12 Oz. $11.00
Half-Dozen in a Cardboard Box

COMMON

Per Dozen

No. 1—Cast Steel, Polished; Plain Hardwood Handle; Weight without Handle, 12 Oz. $3.00
Half-Dozen in a Cardboard Box

WOOD BENCH PLANES

Selected and seasoned beechwood. Plain finish. Double cutter, forged from crucible steel, oil tempered, full polished and sharpened

SMOOTH WITHOUT HANDLE

Length, inch				8
Size of cutters, assorted, inch				2 2⅛ 2¼
Weight each about, lbs				2
Each				$3.25

JACK

Length, inch				16
Size of cutters, assorted, inch				1¾ 2 2⅛ 2¼
Weight each about, lbs				4¼
Each				$4 00

FORE

Length, inch				22
Size of cutters, assorted, inch				2¼ 2⅜ 2½ 2⅝
Weight each, about, lbs				5½
Each				$6.00

JOINTER

Length, inch				26
Size of cutters, assorted, inch				2½ 2⅝
Weight each about, lbs				8
Each				$7 50

SHIP SMOOTH

Length, inch				9
Size of cutters, assorted, inch				1¾ 2 2⅛ 2¼
Weight each about, lbs				2¼
Each				$3.50

SHIP JACK AND FORE

	Ship Jack	Ship Fore
Length, inch	16	22
Size of cutters, assorted, inch	1¾ 2 2⅛ 2¼	2⅜ 2⅝
Weight each about, lbs	4	5
Each	$5.50	6 75

One in paper package

FANCY WOOD PLANES

SKEW RABBET

For rabbeting all kinds of work to secure a tight joint

No. 116—Length, 9½ inches.							
Size, inch	½	⅝	¾	⅞	1	1¼	1½
Wt. ea., lbs	½	¾	⅞	1	1⅛	1⅜	1½
Each	$2.00	2.00	2.00	2.00	2.00	2 25	2.50

RABBET WITH SIDE HANDLE

Jack rabbet with side handle and two spur cutters.

No. 119½—Length, 16 inches.					
Size inch	1	1¼	1½	1¾	2
Weight each, lbs	2¼	2⅜	2⅝	3⅛	3½
Each	$5.25	5.25	5.25	5.25	5.25

All above, one in a paper package.

PLANE IRONS

FOR BLOCK AND RABBET PLANES

In Ordering Specify Number of Plane

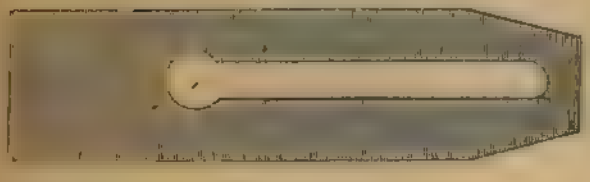
Stillson planes, Nos	S 9½	.....	.....	S 60	.....	S 102	S 103	S 110	.....
Stanley planes Nos.	.....	.....	.....	.....	.....	102	103	110	.....
Baileys planes Nos.	9½	10	10½	60	62	.....	.....	.....	140
Width Stanley and Bailey, inch	1⅝	2⅛	2⅛	1½	2	1¾	1¾	1⅝	1¾
Weight per dozen, lbs	2½	6	6	1¼	4	1¼	1¼	1¾	1¼
Per dozen	$6 00	10 80	10 80	6 00	15.00	3.50	3.50	5 00	7 50

No. 9½ plane iron will also fit Nos. 9¾, 15, 15¼, 16, 17 18, 19, 65, 65½, 120, 131 and 220.
No. 60 plane iron will also fit No. 60½ and 203.
No. 110 plane iron will also fit No. 180.

FOR ADJUSTABLE IRON OR WOOD PLANES

In ordering, specify for iron or wood planes.

SINGLE



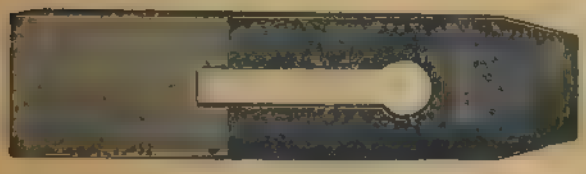
DOUBLE

Single—Width, inch	.....	1¼	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Weight per dozen, lbs	.....	1¼	2	2¼	2¾	3⅛	3½	4	4⅞
Stillson	Each	.75	.80	.80	.85	90	1 00	1 00	
Stanley	"	$0.65	.75	.80	.80	.85	.90	1.00	1.00
Double—Width, inch	.....	1¼	1⅝	1¾	2	2⅛	2¼	2⅜	2⅝
Weight per dozen, lbs	.....	2½	3¼	4½	5¼	6¼	7	7½	8
Stillson	Each	.....	.....	$1 35	1 35	1 50	2 00	2 25	.....
Stanley	"	1.20	1.30	1.35	1.35	1.50	2.20	2.25	2.60

FOR WOOD BENCH PLANES

GROUND SHARP

BUCKS SINGLE



BUCKS DOUBLE

Single—Width, inch	.....	1½	1⅝	1¾	1⅞	2	2⅛	2¼	2⅜	2½	2⅝
Weight per dozen, lbs	.....	4¾	5	5¼	5½	6	6⅝	6¾	7¼	8½	12
Bucks	Per dozen	$4.40	4.50	4.60	5.00	5.30	5.50	6.30	7 00	7.40	8.30

Double—Width, inch	.....	1	1¼	1⅜	1½	1⅝	1¾	1⅞	2	2⅛	2¼	2⅜	2½	2⅝
Weight per dozen, lbs	.....	5	6	6¾	7	7¼	7⅝	8½	9½	10	11	12	12¾	13½
Bucks	Per dozen	$8.40	8.40	8.40	8.50	8.50	8.80	9.40	9.70	10.10	11.10	12 20	13.00	14 20

Bucks single, one dozen; balance, one-half dozen in box

COFFEE MILLS

UNIVERSAL, FOR TABLE

No 0014

Black Enameled Finish. Nicely Decorated Chilled Grinders. Open Hopper. Patent Adjusting Device Grinds Coarse or Fine as Desired. Cast Crank with Plain Wood Handles. Height, 11¼ Ins. Capacity, 4 Ozs. Grinds 6 Ozs. Per Minute. Weight, Per Dozen, About 6Z Lbs.

Clamps to Table

	Per Dozen
No. 0014	**$22.00**

Half dozen in a case

ENTERPRISE

No 0

No. 480

Cast Iron, Painted Black, Red and Gold Striped Hardened Cast Iron Grinders. Plain Bearings. Thumb Nut Adjustment.

Clamps to Table

Ht., 11¼ Ins. Capacity of Hopper, 4 Ozs. Granulates 6 Ozs. Per Min. Wt., Each, 6 Lbs.	Ht., 21 Ins. Capacity of Hopper, 1 Lb. Granulates ½ Lb. Per Min. Wt., Each, 19½ Lbs.
Each	Each
No. 0 . **$2.25** **$2.75**	**No. 480** **$8.75** **$11.25**
One dozen in a case.	Quarter dozen in a case

WITH BASE

Open

Height, 12½ Ins. Hopper, 3½ x 4 Ins. Hardwood Base, 6 x 6½ Ins. With Slide Cover and Drawer. Wt., Each, 10 Lbs. Capacity of Hopper, 4 Ozs. Granulates 6 Ozs. of Coffee Per Minute.

	Each
No. 1	**$3.60** **$4.80**
12 in a case	Wt., per case, 135 lbs.

WALL PATTERN

Mounted on Varnished Hardwood Board. Cast Crank with Plain Handle. Front Adjusting Screw. Hardened Cast Grinders.

Parker Eagle

Stamped Steel Hopper with Drop Cover. Japanned Cast Iron Body. Width of Hopper, 5 Ins. Depth of Hopper, 3½ Ins. Size of Back, 5 x 8 Ins. Wt., Per Doz., Abt. 40 Lbs.

	Per Dozen
No. 50	**$13.20**

No 50

Parker

Coppered, Cast Iron Body and Hopper, with Drop Cover

Nos.	**350**
Width Hopper, Ins. . . .	5
Depth Hopper, Ins. . .	2½
Size Back, Ins. . .	6x8
Wt., Per Doz., Lbs.	41
Per Dozen.	**$18.00**

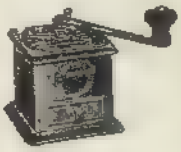
Half dozen in a case.

Nos 350 and 360

BOX

Universal

Sheet Steel Body, with Metal Drawer. Reinforced Top. Beaded Bottom. Black Enamel Finish, Handsomely Ornamented. Sunken Hopper with Spring Lift Cover, Side Grip Handle. Steel Crank with Enameled Wood Knob. Patent Adjusting Device, Grinds as Fine or as Coarse as Wanted. Grinders are Warranted Equal to Steel. Patent Adjusting Screw at Top of Crank.



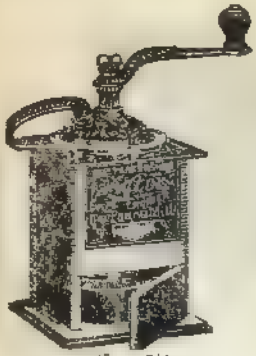
Holds ½ Lb. of Coffee. Box, 4½ Ins. High, 4 Ins. Square	Holds 1 Lb. of Coffee. Box, 7½ Ins. High 5 Ins. Square
Per Dozen	Per Dozen
No. 109— Wt., Per Doz., 24 Lbs. . . **$24.50**	**No. 110**—Wt., Per Doz., 36 Lbs. . . **$30.50**

Half dozen in a case

Headquarters for Bicycles and Sundries

See Separate Catalog

BOX COFFEE MILLS



No. 541

PARKER VICTOR

Holds 1 Lb. of Coffee. Rapid Grinder with Hinged Door and Metal Cup. Height of Box, 8 Ins. Base 5 x 5 Ins. Varnished Hardwood Box. Dovetailed, Rounded Corners. Bronzed Iron Top, Slide Cover, Crank and Grip Handle. Sunken Hopper. Adjustable Hardwood Cast Iron Grinders. Weight, Per Dozen, About 90 Lbs.

	Per Dozen
No. 541	**$29.00**

PARKER UNION

Black Walnut Look' Cornered Varnished Box' with Wood Drawer. Chilled Iron Double Grinders. Japanned Iron Raised Hopper. Cast Crank with Enameled Wood Knob. Two Adjustment Nuts on Top of Box. Iron Hopper. Size, of Box, 6½ x 5 x 4½ Ins.

	Per Dozen
No. 25	**$27.00**
Wt., Per Doz., Abt. 76 Lbs.	

No. 25

Nos. 430, 431

PARKER NATIONAL

Varnished Hardwood Box. Dovetailed Corners. Bronzed and Lacquered Metal Top, Side Handle and Crank. Sunken Hopper with Slide Cover. Adjustable Hardened Cast Grinders. Top Adjustment Nut. Wood Drawer.

Nos.	**430**	**431**
Size Box, Ins.	4¼x4¼x4¼	5x5x4¼
Wt., Per Doz., About Lbs	54	66
Per Dozen	**$22.40**	**24.00**

Half dozen in a case

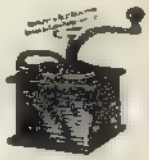
SUN MANUFACTURING CO'S.

Made of Poplar, Finely Varnished. Brown Enamel Finish. Wood Bottom Drawer, Rounded Tin Sides. Set Screw Adjustment on Crank that can be Set to Grind from Very Fine to Very Coarse. Solid Chilled Iron Grinders.

No. 1080

Holds 1 Lb. Air Tight Castings. Depth, 6¾ Ins. Width, 6¾ Ins. Height 7¾ Ins. Weight, Per Dozen, About 45 Lbs.

	Per Dozen
No. 1080	**$15.00**



Cast Iron Swinging Cover. Sunken Hopper, Holding ½ Lb. of Roasted Coffee.

Depth, 6 Ins. Width, 6 Ins. Height, 5 Ins. Weight, Per Dozen About 41 Lbs.

	Per Dozen
No. 1010	**$17.20**

Depth, 7 Ins. Width, 6¾ Ins. Height, 5 Ins. Weight, Per Dozen, About 42 Lbs.

	Per Dozen
No. 1087	**$18.00**

Raised Iron Hopper, Holding ½ Lb. of Roasted Coffee. Lock Nut Adjustment Above Crank for Grinding Fine or Coarse. Castings Black Japanned. Wood Bottom Drawer, with Lock Cornered Wood Sides.

No. 1088

Depth, 6 Ins. Width, 6 Ins. Height, 3¾ Ins.

Weight, Per Dozen, About 36 Lbs.

	Per Dozen
No. 1088	**$12.00**

Half dozen in a box.

Large and Complete Stock of Automobile Accessories—Write for Separate Catalog.

WOOD SCREW GAUGES

WOOD SCREW GAUGE EQUIVALENT. Illustrations full size.

Gauge No.	0	1	2	3	4	5	6	7	8	9	10	11
Decimal equivalent	.058	.071	.084	.097	.111	.124	.137	.150	.163	.176	.189	.203
Nearest fraction of inch	1/16	5/64	3/32	7/64	7/64	⅛	9/64	5/32	5/32	11/64	3/16	13/64
Gauge No.	12	13	14	15	16	17	18	20	22	24	26	28	30
Decimal equivalent	.216	.229	.242	.255	.268	.282	.295	.321	.347	.374	.400	.426	.453
Nearest fraction of inch	7/32	15/64	15/64	¼	17/64	9/32	19/64	21/64	11/32	⅜	13/32	27/64	29/64

REVOLVING SCREW AND BOLT CASES

SCREW

Nos.	*1	*2	*3
Height, inch	33	36	39
Width, inch	21	21	24
Number of drawers	72	80	88
Weight each, lbs.	80	85	90
Each	$50 00	56 50	62.00

No. 1 holds screws, sizes ½-inch No. 3 to 3-inch No. 22
No. 2 holds screws, sizes ⅝-inch No. 2 to 3-inch No. 22
No. 3 holds screws, sizes ¼-inch No. 1 to 3-inch No. 22
*Factory shipment only.

Each drawer holds a gross of screws of the size and number indicated on the front.

The drawers are all provided with stops, to prevent their removal from case. Prices are for shipments from eastern factories.

BOLT

Nos.	*1	*2
Height, inch	60	65
Width, inch	30	30
Number of drawers	98	104
Holds tire bolts, inch	⅞x1½ to⅞x3	⅞x1½ to⅞x3
Holds carriage bolts, inch	¼x1½ to½x12	¼x1½ to½x12
Weight each, lbs.	250	300
Each	$102.00	110.50

The No. 2 case has, in addition to sizes specified above, drawers for ⅞x7½, 8½, 9½ and ½x7½, 8½, 9½ inches.

Each drawer holds a package of bolts of the size indicated on the front.

WOOD SCREWS

ROUND HEAD IRON, BLUED

Per gross.

Length, inch	Gauge numbers.															
¼	0 $0.72	1 .72	2 .72	3 .72	4 .72											
⅜	0 $0.72	1 .72	2 .72	3 .72	4 .72	5 .75	6 .78	7 .82	8 .88	.94						
½	1 $0.72	2 .72	3 .72	4 .75	5 .78	6 .80	7 .84	8 .90	9 .96	10 1.05	11 1.10	12 1.20				
⅝	1 $0.72	2 .72	3 .72	4 .75	5 .78	6 .82	7 .86	8 .92	9 .98	10 1.07	11 1.12	12 1.20				
¾	2 $0.72	3 .75	4 .78	5 .82	6 .85	7 .90	8 .95	9 1.00	10 1.10	11 1.15	12 1.25	13 1.35	14 1.50	15 1.65	16 1.80	
⅞	2 $0.74	3 .78	4 .82	5 .85	6 .90	7 .94	8 1.00	9 1.05	10 1.15	11 1.25	12 1.35	13 1.45	14 1.55	15 1.75	16 2.00	
1	3 $0.80	4 .84	5 .87	6 .92	7 .98	8 1.05	9 1.10	10 1.20	11 1.30	12 1.40	13 1.60	14 1.70	15 2.00	16 2.50	17 2.70	18 2.50
1¼	4 $0.92	5 .98	6 1.05	7 1.10	8 1.15	9 1.20	10 1.30	11 1.40	12 1.55	13 1.70	14 1.90	15 2.15	16 2.50	17 2.75	18 3.30	20 4 00
1½	5 $1.10	6 1.15	7 1.20	8 1.30	9 1.35	10 1.40	11 1.50	12 1.65	13 1.80	14 2.00	15 2.35	16 2.80	17 3.20	18 3.80	20 4.30	22 5.10
1¾	6 $1 35	7 1.45	8 1.50	9 1.55	10 1.60	11 1.70	12 1.80	13 2.00	14 2.25	15 2.60	16 2.90	17 3.50	18 4.00	20 4.50	22 5.20	24 6.00
2	6 $1.50	7 1.55	8 1.60	9 1.65	10 1.75	11 1.85	12 2.00	13 2 20	14 2 45	15 2.75	16 3.10	17 3.70	18 4 20	20 4 80	22 5.50	24 6.40
2¼	8 $1.75	9 1.85	10 1.95	11 2.05	12 2.20	13 2.35	14 2.65	15 3.10	16 3.50	17 3.85	18 4.55	20 5.30	22 6.10	24 6.90		
2½	8 $2.20	9 2.30	10 2.40	11 2.50	12 2.60	13 2.70	14 2.90	15 3 30	16 3.65	17 4 20	18 4.70	20 5.80	22 6.70	24 7.50		
2¾	10 $2.90	11 3.00	12 3.10	13 3.20	14 3.30	15 3.60	16 3.90	17 4.50	18 5.00	20 6.10	22 7.20	24 8.50				
3	8 $3.05	10 3.15	11 3.20	12 3 30	13 3.40	14 3.50	15 3.80	16 4.20	17 4.80	18 5.50	20 6.50	22 7.50	24 8.70	26 10.50		
3½	10 $4.10	11 4.20	12 4.30	13 4.40	14 4.50	15 4.75	16 4.95	17 5.40	18 6 15	20 7.30	22 8.70	24 10-20	26 12.00			

For cuts showing gauge numbers of screws, see page 618.

One gross in box

ROUND HEAD GALVANIZED SHEET METAL SCREWS

Nos.	7	10	14
Size, inch	⅛x½	⅛x¾	¼x⅜
Each	$1.20	1.80	2.40

PLATFORM WOOD TOY ANIMALS

Red platforms, dapple dutch horses, red trim harness, high luster varnish finished.

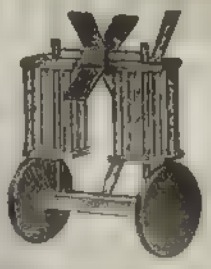
Horse with Boy Rider — 8x8½, steel disc wheels
[illegible] box Doz $2.15

Galloping Horse—22x9, large horse with boy rider attachment to rear wheels gives natural galloping [illegible] boys seat, steel wheels
[illegible] pkg Doz $4.40

Platform See Saw 10x[illegible] boys and girls alternate [illegible]
[illegible] box Temp Out

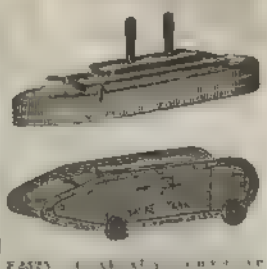
ALL BIG SELLERS

WHIRLIGIG NOVELTY PUSH TOY



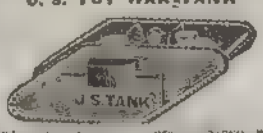
F2848 [illegible] mounted with [illegible] wheels with rubber tires
[illegible] Doz $4.50

"YANKEE" CONVERTIBLE TANK



F2827 [illegible] wheels, steering gear, [illegible] wood wheels
[illegible] Doz $4.25

U. S. TOY WAR TANK



F2[illegible] [illegible] wood wheels, all [illegible] [illegible] rubber tires, [illegible] rubber tires, [illegible] rubber tires,

DOLL FURNITURE

A complete showing including everything that sells in the line of doll furniture. We have eliminated the slow moving numbers and show only merchandise that is chosen after careful consideration. Each piece is strongly made and finished in a superior manner, thus assuring you of having dependable goods. Show them in your toy department.

GILT WIRE DOLL BED

F3850 [illegible] wire and pillow, [illegible] flowered paper folds flat, each in box. ½ doz. in pkg. Doz. $4.35

COLLAPSIBLE GILT METAL DOLL BEDS

Heavy wire full trim, flowered lawn mattress and lace trim pillows stuffed with excelsior, comes flat, easily set up. Each in box.

F3851—14x9½x8. ½ doz. in pkg. Doz. $8.90

F3852—16x11x9½. ½ doz. in pkg. Each $1.05

F3853—18x11x10½. ½ doz. in pkg. Each $1.25

CANOPY DOLL BED

STAR VALUE

F3855 [illegible] wire, flowered [illegible] canopy stuffed, has lace to match, pillows [illegible] comes flat, can be easily [illegible] box. Each $2.25

EXTRA HIGH GRADE WOOD DOLL BEDS

Made by Ferguson Bros. Finish and design unequaled. Each bed complete with brass casters, box spring, pillows and mattress covered in attractive floral patterns of art ticking. All beds packed K. D., easily set up. Each in carton.

Size 23x12x13½—
F3884—Mahogany finish } Each
F3890—White enameled } $1.90

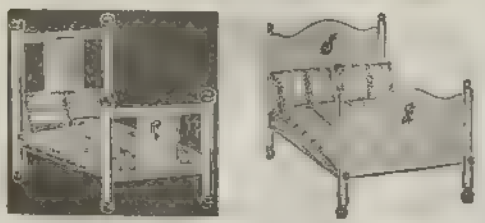
Size 26x14x[illegible]
F3[illegible] Mahogany finish } Each
F3[illegible] White enameled } $2.50

Size 26x14x[illegible]
F3[illegible] Mahogany finish
Each, $3.00

Size 28x18x16—
F3[illegible] White enameled tubing
Each $3.75

Size 28x18x16—
F3[illegible] [illegible] colored [illegible]
Each $4.75

WHITE ENAMELED WOOD DOLL BEDS



"Popular"—Floral decorated panels, flowered muslin covered [illegible] and pillow cases, excelsior filled, extra heavy smooth finished wood posts and cross dowels, large gilt knobs, wood [illegible] spring case. 1 in box.

F3886—14x6x13½ Each, $2.20
F3887—16x10½x11½ 2.75

"Attractive"—Panel and pointed [illegible] design, flowered lawn covered mattress, 2 pillows, heavy smooth finished white enameled wood frame and posts, fitted with casters. 1 in box.

F3900—23x12x13. Each, $2.50

WHITE ENAMELED WOOD DOLL CRIB

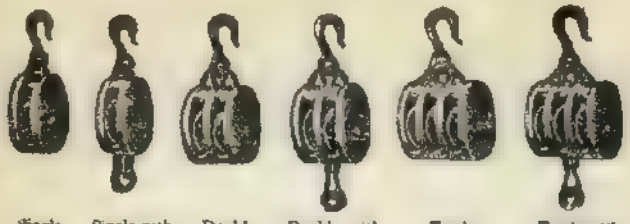
F[illegible] [illegible] with [illegible] and [illegible] complete with mattress and pillows [illegible] box. Each $7.25

THE DOLL A BYE

An automatic doll bunter

F[illegible] [illegible] [illegible] [

WOOD TACKLE BLOCKS



Single with Hook | Single with Hook and Becket | Double with Hook | Double with Hook and Becket | Triple with Hook | Triple with Hook and Becket

We Cannot Furnish Entire Orders with Beckets, Except at an Extra Charge of XU%, but We will Furnish One-half of All Orders with Beckets without Extra Charge. All Shipments F. O. B. Phila., No Freight Allowance.

IRON SHEAVES. IRON STRAPPED. IRON BUSHED

With or Without Beckets.

PLAIN BUSHED

Single.

Shell, Ins.	3	4	5	6	7	8	9	10	12
Sheave, Ins.	1¼	2¼	3	3½	4½	5	5½	6½	8
Rope, Ins..	½	½	½	½	½	1	1	1¼	1½
Each .	$ 70	.85	.90	1 10	1.30	1 65	1 85	2.75	4.45
	$1.05	1.35	1.50	1.70	1.90	2.40	2.70	4.30	7.50

Double.

Shell, Ins	3	4	5	6	7	8	9	10	12
Sheave, Ins	1¼	2¼	3	3½	4½	5	5½	6½	8
Rope, Ins.	½	½	½	½	½	1	1	1¼	1½
Each..	$1.30	1.60	1.75	2 00	2 40	2.85	3.40	4.50	7.50
	$1.80	2.00	2.70	3.10	3.50	4.00	4.80	6.25	13.70

Triple

Shell, Ins.	4	5	6	7	8	9	10
Sheave, Ins	2¼	3	3½	4½	5	5½	6½
Rope, Ins..	½	½	½	1	1	1	1½
Each	$2 16	2.25	2 90	3.50	4.25	4.75	6.25
	$3.10	3.50	3.55	5.25	6.00	6.70	9.50

ROLLER BUSHED

Single.

Shell, Ins	3	4	5	6	7	8	9	10
Sheave, Ins.	1¼	2¼	3	3½	4½	5	5½	6½
Rope, Ins..	½	½	½	½	½	1	1	1¼
Each ..	$1.10	1 20	1 25	1 50	1.70	2 25	2 50	3 50
	$1.60	1.75	2.00	2.40	2.70	3.35	3.90	5.35

Double.

Shell, Ins.	3	4	5	6	7	8	9	10
Sheave, Ins	1¼	2¼	3	3½	4½	5	5½	6½
Rope, Ins..	½	½	½	½	½	1	1	1¼
Each	$2.00	2.25	2.35	2.85	3.35	4 15	4.70	6.00
	$2.95	3.30	3.75	4.55	5.15	5.90	6.70	9.10

Triple.

Shell, Ins....	3	4	5	6	7	8	9	10
Sheave, Ins.	1¼	2¼	3	3½	4½	5	5½	6½
Rope, Ins..	½	½	½	½	½	1	1	1¼
Each...	$2.90	3 25	3.50	4 40	5.00	6 00	7.25	8.50
	4.15	4.80	5.35	6.70	7.75	8.50	10.15	12.80

Note.—Orders should specify whether with or without Beckets. If not specified blocks without Beckets will be sent For entire Orders with Beckets an Additional Charge will be made. Assorted orders should be as follows All single blocks with Beckets; one-half double Blocks with Beckets; one-third triple blocks with Beckets

Loose.

WOOD SNATCH BLOCKS

IRON SHEAVES. IRON STRAPPED. IRON BUSHED

Length of Shell, Inches.....	6	8	10	12
Diameter of Sheave, Inches....	3	4½	5½	6½
Diameter of Rope, Inches.....	½	1	1½	1½
Each	$4.00	5.75	8 50	10.00
	$5.90	8.00	12.90	14.35

Loose.

STEEL SNATCH BLOCKS

Nos.	200	202	204	206
Length Shell, Inches	7	8	10	12
Diameter Sheave, Inches	3½	4	5½	7
Diameter Rope, Inches	½ to ½	1 to 1½	1½ to 1½	1½ to 1½
Each	$5 50	7.00	9.00	11 50
	06.70	8.35	12.10	15.20

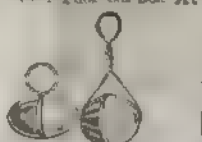
Loose.

ZYLONITE RATTLES

P4473—3 styles, average 5½ in., round and egg shapes, suspended through center and ab ends, perforated rolls fill with solid and cut to imitate pink, blue and white Asstd. colors in box ... Doz 43c
Than $1.20

P4474—3 styles, aver. 6 in., large rattle, ball, barrel and fancy shapes, loose twisted celluloid handle, solid and hollow, pink, blue and white Asstd. 1 doz. box Doz. 92c

P4475—Two ring rattle, average ... Doz 89c



P4466—2 styles, ... and 5 inches, also fancy barrel shape and ... rattle, ... with ... and ... Asstd. 1 dozen box Doz. $1.15

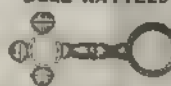
P4457—2 styles, Asstd. wheel rattles, aver. ... Doz 92c

P4481—4 styles, aver. 4½ to ... silver ... stars, with ... Doz. $2.25

P4482—Teething ring rattle with whistles, 2 styles, 5½ in. and 7½ in., ... Asstd. colors, pink, blue and white, on display card $2.25

P4467—5 styles, aver. 5½ in. ball ... Doz. $2.25

BELL RATTLES



P2461—5½ in. three ... nickel bells on wire ... Doz 92c

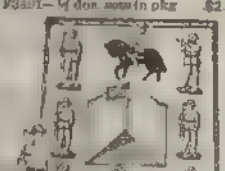
P2454—5½ in. four 1 in. double ... nickeled bells on heavy colored ... white ... Doz. $1.10

PEWTER SOLDIER SETS

Made of pewter tinted flesh, fac simile U. S. Regulars green base, folding canvas tents on cardboard, steel tents poles with flag. Each set plastic fastened to glazed card in box.

5 Pcs.—4 soldiers with ... tent with ... flag, wide ... P4491—½ doz. sets in pkg $2.15

10 Pcs.—Mounted officer, ... soldiers, ... with ... flag, ... American flag, ... sold ... tent with ... P4488—½ doz. sets in pkg Doz. sets $8.90



9 Pcs.—Mounted officer, 7 soldiers, tent with American flag Doz. sets P4489—½ doz sets in pkg $4.40

24 Pcs.—... mounted officers, ... dismounted, 18 soldiers, ... with flag P4490—1 set in pkg Set $1.35

13 Pcs.—Mounted officer, brass finish cannon, 8 soldiers, 13 in. pop gun, tent with American flag Doz. sets P3687—½ doz sets in pkg $8.75

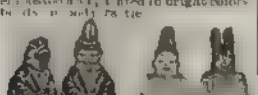
TOYS of every description are shown in this catalogue. A few minutes each day spent in looking over the toy pages will prove worth while

CELLULOID TOYS

Prepare for the biggest toy year you ever had. Celluloid toys are very durable and especially in demand for the smaller children. Here is a selection from which you can fill your needs at better than usual prices

"3-IN-1" CELLULOID TOY ASSORTMENTS

Heavy ... duck assd. figures ... tinted in bright colors, ... assorted, packed in bright ... box

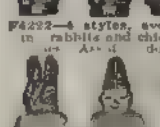


P4218—3 styles, 2x4, rabbit, chick and clown in eggshell. Asstd. ½ doz. in box ... Doz $2.15

P4220—Rolly polly egg, 3½ in., rabbit, chick and clown heads in printed egg. Asstd. ½ dz. in box Dz. $2.25

P4219—5 styles, aver. 4½ in. rabbit, chicken and ... assorted costumes. Asstd. dz. in box Dz. $2.25

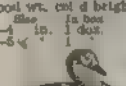
P4222—4 styles, aver. 5½ ... in. rabbits and chicks. ... Asstd. doz. in box ... Doz $4.50



P4221—Chick, rabbit ... and ... aver. ... in. Asstd. ½ doz. in box Doz $4.40

FLOATING CELLULOID TOYS

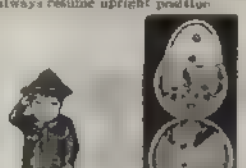
Fish—Good wt. colored bright red ... Size ... In box ... Doz
P3457—4 in. 1 doz. $0.42
P3460—6 ... 1 ... 2.00



Ducks—Good ... colored ... in colors. ... Doz
P4454—1 ... Doz $0.28
P4455—2 ... 43
P4456—3 ... 87
P4456—3 ... 1.25

CELLULOID ROLY POLIES

Weighted bottom. When pushed always resume upright position



P4491 P4492

Soldier Boy at Salute—3 in., hand painted features, khaki colored ... arm and head, white celluloid base. ... —1 doz. in box Doz. $2.25

Comical Clown—7 in., clear white, large ball body, and head with clown hat, hand painted costume, head ... sides from side to side. P4492—2 in pkg. (Each, $1.20 (Total $2.40)

CELLULOID FIGURE TOYS

P0468-32 P0468

Santa Claus—Bright red cos ... painted features

	In box	Doz.
P0458—4½ in.	1 doz.	$1.00
P0459—5½ "	1 "	2.15

Boys and Girls—Standing position, painted features, red and blue bright color costumes

	In box	
P0462—4½ in.	1 doz	Doz. $1.25

CELLULOID ANIMAL TOY ASSORTMENT

P4488—6 styles, 2½ in. well modeled ... Doz. $4.40

CELLULOID ANIMAL TOYS

6 Styles—Aver. 2½ to 5½ in., elephant, lion, camel, bear, cow and ... all with painted features. P4490—Asstd. 1 doz. in box Doz. 72c

Rabbit—4½ in., standing position, asstd. bright colors, painted features. P0443—1 doz. in box Doz. 53c

12 Styles—Aver. 3 to 4½ in., horses, ... ducks, horses, cows, ... etc. P4451—Asstd. 1 doz. in box Doz. $1.10

6 Styles—Aver. 3½ to 4 in., ducks, lions, bears, cows, tigers and horses. P4452—Asstd. 1 doz. in box Doz. $1.25

FLOATING ZYLONITE TOYS

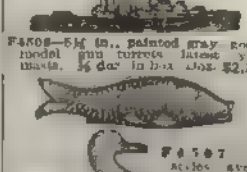
Natural colors, lifelike floating. For baby's bath, aquariums, etc.

P4503—3 styles, aver. 1½ in. swan, fish and ... duck. Asstd. ... doz. ... box Doz. 43c

P4504—3 styles, aver. ... in. swan, duck and fish. Asstd. 3 doz. in box Doz. 85c

P4501—4 styles, aver. 4 in. duck and fish. Asstd. ½ doz. in box Doz. $2.25

P4502—5½ in., painted gray ... model, ... turrets, latest ... masts. ½ doz. in box ... $2.20



P4507—4 styles, aver. 6 ... in. swan and fish ... paper ... box. Doz $4.10

ZYLONITE BALANCING PARROT

P4589—3½ in., white body, asstd. color head and tail, loaded, balances perfectly on edge of article. With place cards, 1 doz. in box Doz. 70c

FLOATING WAX DUCK SETS

For Bathtub and Playroom

Heavy wax, natural tinted yellow composition, tested to 100 degrees heat.

P2080—Two 2½ in. ducks, air brush color. Set of 2 in box. 2 doz. sets in pkg. (Total 90c) Doz. sets 45c

P2081—One 2½ in., three 1½ in. ducks, set of 4 in box. 1 doz. sets in pkg ... Doz. sets 95c

INFANTS' ZYLONITE ANIMAL TOYS

For Bathtub and Playroom

P4490—5 styles, aver. 2½x1½ standing position, sheep, cow, horse, donkey and pig. Asstd. 1 doz. in partition box ... Doz 89c

"KING OF THE HILL" SELF-STEERING SLEDS IN ALL THE POPULAR SIZES

Distributed exclusively by Butler Brothers

INFANTS' DECORATED FRENCH IVORY TOILET SETS

In White Enameled Wicker Baskets

Lined with plaited sateen in pink or blue. Exceptionally well finished and decorated

3 Pcs. In each basket: 4½ in. oval hand mirror in hair brush, 4½ in. comb, 2 3/4 x 4 in. powder box, 3 in. across, box enamel shape with rose sprays on box

F4446 PINK
F4447 BLUE
} Each 1 Doz

5 Pcs. In each basket: 4 in. oval back enamels hair brush, 4½ in. comb, 4½ x 4½ in. powder box, 3½ in. soap box, 3 in. across, dumb-bell shape, nail file, shoehorn and rose decor. on box

F4448 PINK
F4449 BLUE
} Each 1 Doz

INFANTS' CELLULOID PLAY SETS

High grade celluloid toys, attractive animal and comic designs. These play sets will prove very big sellers.

F4479

F4477

F4478

F4479—4 pcs., 5 in. doll, tinted features, jointed arms, ribbon bow, 6¼ in. barrel rattle with twisted handle, 4¾ in. sheep rattle. ½ doz. sets in pkg.
Doz. sets, **$9.25**

F4477—4 pcs., 5 in. doll, tinted features, jointed arms, 6¼ in. barrel rattle with twisted handle, 4¾ in. sheep rattle, 3¾ in. tinted swan, ribbon tied. 1 set in pkg.
Set, **$1.80**

F4478—4 pcs., 5 in. doll, tinted features, jointed arms, 6¼ in. barrel rattle with twisted handle, 4¾ in. sheep rattle, 3¾ in. tinted swan, ribbon tied. ½ doz. sets in pkg.
Doz. sets, **$1.25**

HIGH BOUNCING CELLULOID BALLS

Well made heavy stock, will not dent easily when bounced, each decor. with juvenile designs, blue & white and pink & white combinations. Packed in mottled paper covered boxes

F4440—2½ in. 1 doz. in box. Doz. **$2.20**

F4441—3½ in., 6 ass. in pkg. Doz. **$4.50**

NOVELTY CELLULOID FLOOR TOYS

Double disc wheels with round hubs, figure stands upright while toy is drawn along.

F4438—3 styles, full length 18 in., 4 in. roller on a long celluloid handle, ring grip, brass-gaited cords with swan shape wood toggle, assorted colors and decors with juvenile designs. Assrtd. ½ doz. in box.
Doz. **$8.65**

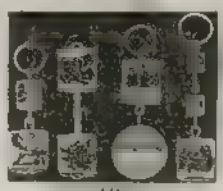
F4496—3 styles, heavy stock egg shape hand painted designs, 3½ in. long and 2¾ in. wide, 18 in. rope handle, 4 in. wheels, long or short axle. ½ doz. in pkg.
Doz. **$3.25**

F4496

INFANTS' DECORATED FRENCH IVORY RATTLES

NOTE: French Ivory is a trade term used for a composition of "Celluloid," "Pyralin" and "Viscaloid."

F4471



F4472

F4473

F4471—6 styles, assorted designs, bright colors, wood and composition, 6 in. long, 2 in. wide, ring handle for easy grasping. Assrtd.
Doz. **$2.25**

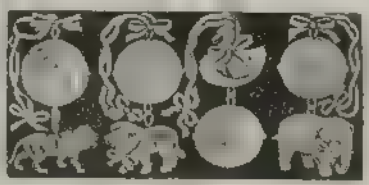
F4473—4 styles, over 6½ in. long, all with teething ring, bell and ball pendants, turning globe picture rattle with large teething handle. Assrtd.
1 Doz. Doz. **$4.35**

F4470—8 in. solid ring teethers, ring on end, ball heavy cork rattle at other end, 1 doz. in pkg. with large assortment of designs and colors. ½ doz. in box.
Doz. **$4.35**

INFANTS' DECORATED FRENCH IVORY CARRIAGE RATTLES

The following numbers are the latest creations, extremely attractive floral and figure designs, beautiful decorations for the carriage, carefully packed in fancy paper covered cardboard boxes.

F4485



F4486

F4487

F4485—4 in. diamond cut glass oval bells, nickel oval frame, baby head, wood cross strap. Colors: white, blue, pink. 1 doz. in box, ½ doz. in pkg.
Doz. **$4.35**

F4486—4 styles, 4½ in. swan body, fully assorted, 4 in. oval bell, nickel oval frame, baby head, wood toggle, blue sash, ribbon bow, each in box, ½ doz. in pkg.
Doz. **$4.35**

F4487—3½ in. heavy welded bell, baby face, 4 in. cross bar, 4 in. ring, 3 in. rings with 2 in. bow attached by celluloid snap, each in box, ½ doz. in pkg.
Doz. **$4.25**

TO SHELLER WHOLESALE TOY BUYERS FROM BETTER BROTHERS. Our [illegible] are always first-class [illegible] get the most for your money. [illegible] Please [illegible] If we do not [illegible] PRICES THAT ARE RIGHT

HAND PAINTED ZYLONITE RATTLE ASSORTMENT

12 big selling styles in a practical partitioned display box. Order an assortment now

F4476—12 styles, 6½ to 8½ in. water novelty shapes, well made, each with finest enamel hand decoration in six colors, 3 models blue birds, storks, chicks, infants, Baby, etc., one pink or blue model, 2 models red, 2 models green, 2 models red and combination pink, blue and white. Assrtd. 1 doz. in partitioned box.
Doz. **$2.20**

INFANTS' 3 PC. DECORATED FRENCH IVORY TOILET SET

A very attractive value priced low enough to allow you good profit

F4452—3 pcs., 4½ in. enamels' hair brush, [illegible] comb, 2 3/4 x 4 in. shape powder box with fancy cover, swan decor. ½ doz. sets in pkg.
Doz. sets, **$9.25**

HATCHETS

Prices on Request

C. HAMMOND AND SON

Forged with Swedish Iron Body. Best Tool Steel Welded on Head and **Inserted** for Cutting Edge, which is Superior to an Overlaid Bit. Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended. Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions. The Best and Toughest Hatchet that can be Produced and Give the Longest Wear to the User. Each Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

COPPER BRONZED FINISH

Polished Face and Bit

Extra Quality, Selected White Hickory Handles

SHINGLING

			Per Dozen
No. 10—Size 1.	3½ In. Cut	Wt., 1 Lb. 4 Ozs.	$
No. 11—Size 2.	3¾ In. Cut	Wt., 1 Lb. 8 Ozs.	
No. 12—Size 3.	4 In. Cut	Wt., 1 Lb. 12 Ozs.	

HALF

			Per Dozen
No. 30—Size 1.	3½ In. Cut	Wt., 1 Lb. 4 Ozs.	$
No. 31—Size 2.	3¾ In. Cut	Wt., 1 Lb. 8 Ozs.	
No. 32—Size 3.	3¾ In. Cut	Wt., 1 Lb. 12 Ozs.	
No. 33—Size 4.	4 In. Cut.	Wt., 2 Lbs.	

SINGLE BEVEL HALF

			Per Dozen
No. 300	Size 1.	3½ Inch Cut. Weight, 1 Lb. 4 Ozs.	$
No. 310	Size 2.	3¾ Inch Cut. Weight, 1 Lb. 8 Ozs.	

Half dozen in a cardboard box. Weights do not include handles

COPPER BRONZED FINISH

Polished Face and Bit

Extra Quality, Selected White Hickory Handles.

LATHING

Scored Head, Not Polished

			Per Dozen
No. 70—Size 1	2½ In. Cut.	Wt., 12 Ozs.	$
No. 71—Size 2	2¾ In. Cut.	Wt., 1 Lb.	

Half dozen in a cardboard box.

CLAW

			Per Dozen
No. 60—Size 1	3½ In. Cut	Wt., 1 Lb. 4 Ozs.	$
No. 61—Size 2.	3¾ In. Cut	Wt., 1 Lb. 8 Ozs.	
No. 62—Size 3.	4 In. Cut.	Wt., 1 Lb. 12 Ozs.	

Weights do not include handles.

GOLD BRONZED FINISH

Polished Face and Bit

Extra Quality, Selected White Hickory Handles

BROAD

			Per Dozen
No. 120—Size 1.	4 In. Cut.	Wt., 1 Lb. 6 Ozs.	$
No. 121—Size 2.	4½ In. Cut.	Wt., 1 Lb. 10 Ozs.	
No. 122—Size 3.	5 In. Cut.	Wt., 2 Lbs. 4 Ozs.	
No. 123—Size 4.	5½ In. Cut.	Wt., 2 Lbs. 10 Ozs.	
No. 124—Size 5.	6 In. Cut.	Wt., 3 Lbs.	
No. 125—Size 6.	6½ In. Cut.	Wt., 3 Lbs. 8 Ozs.	

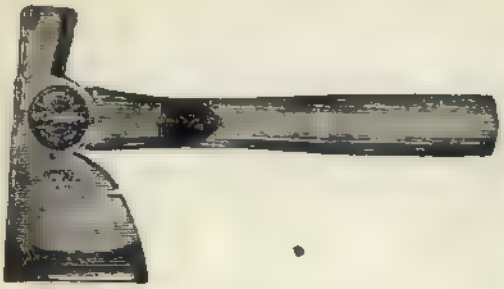
Third dozen in a cardboard box. Weights do not include handles.

Note.—Made in Single and Double Bevel. Single Bevel will always be shipped unless otherwise specified

HATCHETS

C. HAMMOND AND SON

Prices on Request



FULL POLISHED, MIRROR FINISH

Eyes Tipped Red

Extra Quality, Selected White Hickory Handles.

Forged with Soft Steel Body. Best Tool Steel Welded on Head and **Inserted** for Cutting Edge, which is Superior to an Overlaid Bit. Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended. Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions. The Best and Toughest Hatchet that Can Be Produced and Give the Longest Wear to the User. Each Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

HALF

		Per Dozen
No. 40—Size 1	3½ In. Cut. Wt., 1 Lb 4 Ozs.	.. $
No. 41—Size 2	3¾ In. Cut. Wt., 1 Lb 8 Ozs.	..
No. 42—Size 3.	3¾ In. Cut. Wt., 1 Lb. 12 Ozs.	.

Half dozen in a cardboard box.

OCTAGON NECK, ROUND POLL

Copper Bronzed Finish Body, Polished Poll, Face and Bit

Extra Quality, Selected White Hickory Handles.

Forged Swedish Iron Body. Best Tool Steel Welded on Head and **Inserted** for Cutting Edge, which is Superior to an Overlaid Bit. Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended. Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions. The Best and Toughest Hatchet that Can Be Produced and Give the Longest Wear to the User. Each Hatchet Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

HALF

		Per Dozen
No. 030—Size 1	3½ In Cut. Wt., 1 Lb 8 Ozs.	$
No. 031—Size 2.	3¾ In Cut. Wt., 1 Lb 12 Ozs.	
No. 032—Size 3.	4 In Cut. Wt., 2 Lbs	

Weights do not include handles.

FULL POLISHED, MIRROR FINISH

Adze Eye, Bell Poll

Extra Quality, Selected White Hickory Handles.

Forged from Best Refined Solid Crucible Steel. Head and Bit Carefully Hand Tempered to the Proper Degree of Hardness for the Use the Tool is Intended. Eye of Hatchet Head and Eye of Handle made to a Gauge Insuring a Perfect Fit. Standard Sizes and Dimensions. Each Hatchet Handle Bears an Attractive Black and White Shield Label Fully Describing Quality of Tool

SHINGLING

		Per Dozen
No. 26—Size 2	3½ In Cut. Wt., 1 Lb. 4 Ozs...	$

HALF

		Per Dozen
No. 45—Size 1.	3 In Cut. Wt., 1 Lb..	$
No. 46—Size 2.	3½ In. Cut. Wt., 1 Lb 4 Ozs. .	

Half dozen in a cardboard box. Weights do not include handles.

The Literary Digest

(Title Reg. U. S. Pat. Off.)

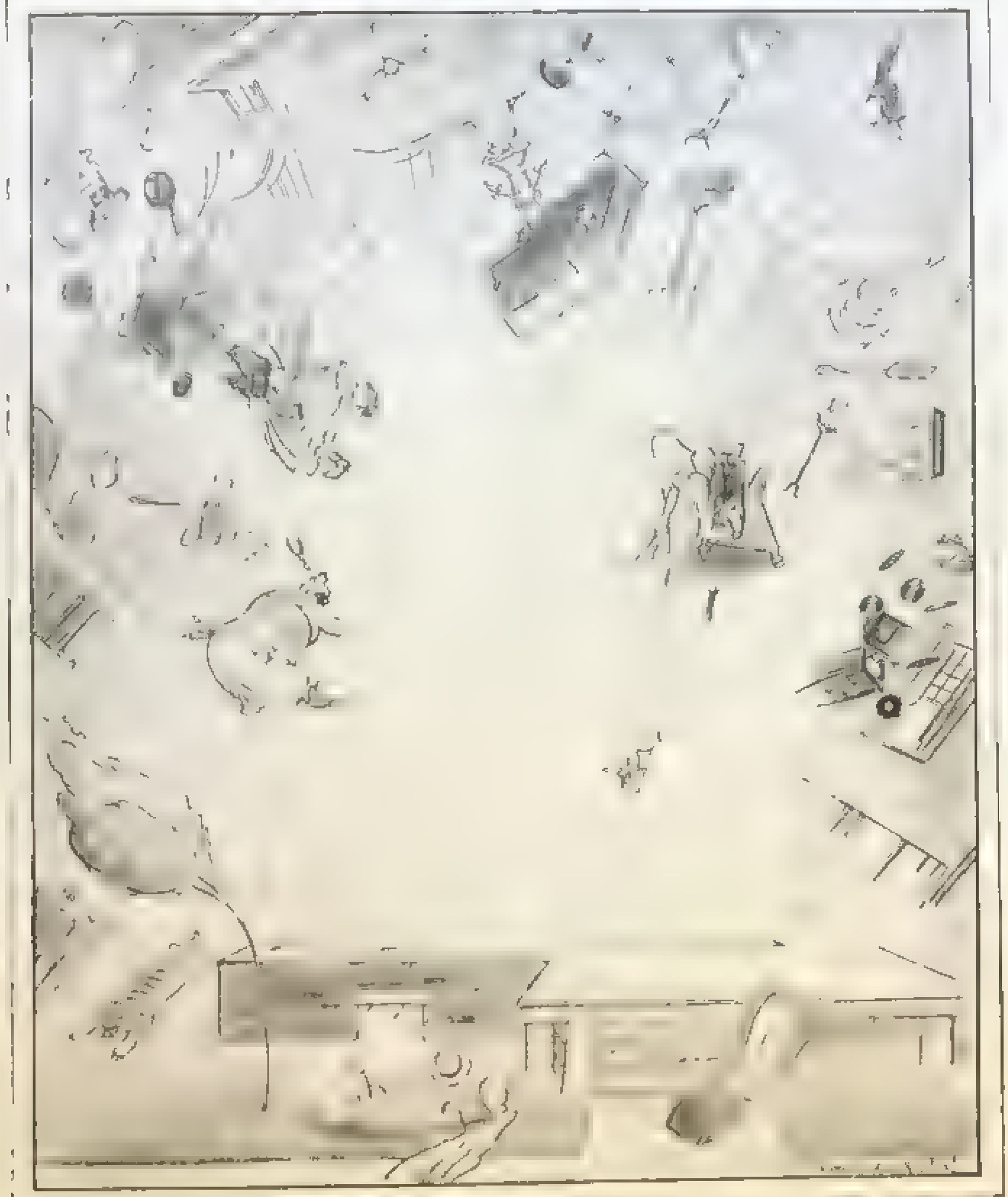
Joseph Cummings Chase 1920

New York FUNK & WAGNALLS COMPANY London

PUBLIC OPINION New York combined with The LITERARY DIGEST

Vol. 64, No. 11 Whole No. 1560 MARCH 13, 1920 Price 10 Cents

BRYAN'S D
OF BOTH PARTYS'
PLATFO



THE MOST BEAUTIFUL CAR IN AMERICA

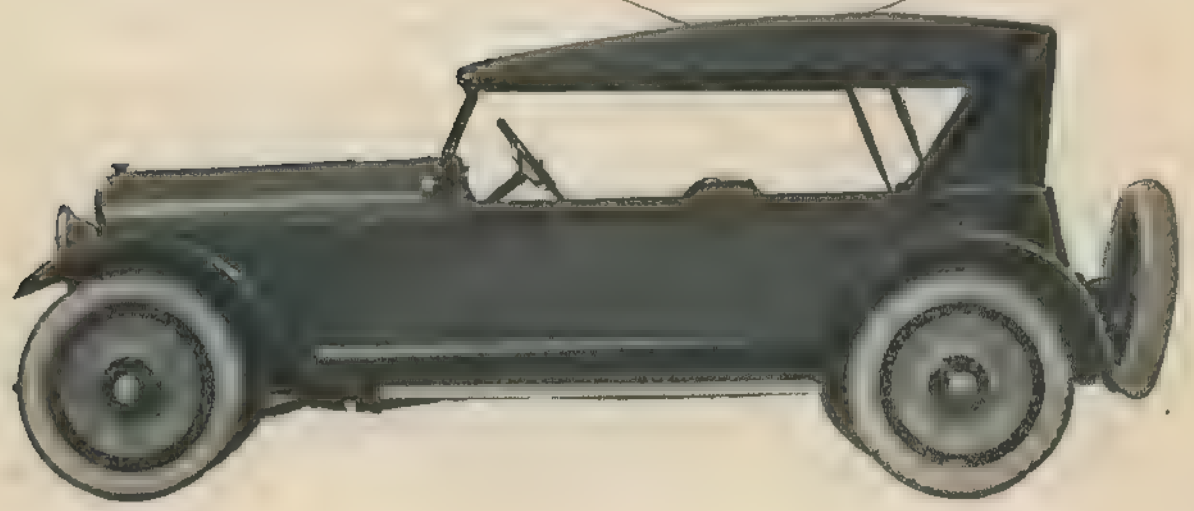
THE "Larchmont" Four Passenger Model has been called the ideal "Young Man's" Car, but it appears to have just as many friends among the older folks.

It is smart—there can be no question about that—but it is the smartness of good taste and refinement. It both looks and acts the part of a thoroughbred.

Please remember that the production schedule on this model is limited. Our dealer will be in much better position to meet your requirements in regard to delivery if you place your order now.

PAIGE-DETROIT MOTOR CAR CO. DETROIT

Manufacturers of Motor Cars and Motor Trucks



The P & H Excavator-Crane

AS A DRAGLINE

The P & H excavator-crane is a super standard dragline machine It has a 30-foot boom ½ yard dragline bucket with a 9,500 pound dragline pull,—an operating speed of 100 feet per minute and non-clogging corduroy traction.

AS A BACKFILLER

Equipped with a self acting scraper bucket an operator (not a licensed engineer) and one man can backfill large quantities of material in a day. Operating expense is low All steel construction and careful supervision reduce breakdowns to a minimum

AS A CRANE

Equipped with a hook or other grappling device the P and H instantly becomes a handy man on any job. It has ample power and does not require a licensed operator to run it.

AS A CLAM SHELL

For convenience and economy the P and H excavator crane equipped as a clam shell is in a class by itself For handling any loose material you have a machine that you will recognize at once as being efficient and economical

PAWLING & HARNISCHFEGER CO.
EST 1884
MILWAUKEE, WISCONSIN

Church St., New York
Stephen Gerard Bldg Philadelphia
Whitney Central Bldg., New Orleans, La
Fidelity Bldg Pittsburgh, Pa
Monadnock Block, Chicago, Ill
Portland, Ore., Yeon Bldg
Central Bldg Los Angeles
Monadnock Bldg., San Francisco
L. C. Smith Bldg Seattle, Wash.

P&H — excavators — back-fillers - tampers

THE BRIDGE THAT SPANS MIGHTY GAPS OF COMMERCE

WHEN that fragile thing, the bank check, is viewed not as an inanimate piece of paper, but as the link that brings together the buyer and the seller and sums up all the work between raw material and finished product, banking takes on a new meaning.

WHEN the check or draft becomes the medium uniting the wool grower of Montana or the cotton grower of Texas with manufacturers elsewhere in the country, and the manufacturer with the exporter to foreign lands, it is a vital and mighty instrument, capable of bringing the ends of the Earth together.

WE try to train our employees to see with the eyes of the imagination the significance of the thousands of checks that go through the bank each day and the important part these instruments play in the world trade. An employee who comprehends the scope of a great bank's business can meet the needs of customers intelligently and communicate to them the spirit of the institution.

THE PHILADELPHIA NATIONAL BANK

PHILADELPHIA, PA.

Pyrene

KILLS FIRE
SAVES LIFE

"This PYRENE Will Protect My New Car Against Fire"

"BEFORE you deliver my new car, I want this Pyrene installed, ready for instant action.

"Cars cost real money nowadays; and they are so hard to get that I won't take a chance of losing mine by fire.

"Besides, Pyrene saves me 15 per cent on my automobile fire insurance."

PYRENE MANUFACTURING CO., 52 Vanderbilt Av., New York
ATLANTA CHICAGO KANSAS CITY SAN FRANCISCO
Pyrene Manufacturing Co. of Canada, Ltd., Montreal, P. Q.

Sold by hardware and electrical supply dealers and garages

WHEAT

By Appointment
H.M. The Queen

Peville LTD

COURT DRESSMAKERS

LONDON
45 Hanover Square, W1

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8 Rue de la Michodière

Schoenhut Toys

Made in U.S.A. Since 1872

American Ingenuity and Invention

The All-Wood Doll

The Schoenhut ALL-WOOD Doll is the greatest of all the Schoenhut inventions—an American-made doll that has proved to be far superior in every way to any doll ever imported from foreign Dolldom. It is almost unbreakable being made entirely from wood, and fully jointed with patented steel spring hinges having double spring tension and swivel connections. The parts are held tightly together, yet the joints are so flexible that the doll can be placed in any position and will stay as placed. Having no elastic cord, this doll never requires restringing. It is painted with enamel oil colors that do not come off. These dolls come with the finest quality mohair wigs, or with hair carved on wooden heads and painted natural colors. Your little ones can never know the full joy and pride of doll possession until they own a Schoenhut All-Wood Doll. If your dealer cannot supply you, we shall be glad to do so direct from the factory. Send for illustrated doll booklet.

The Walkable Doll

Schoenhut's Walkable Doll (the latest addition). An All-Wood Doll that can be led by the hand and will walk like a real little tot. Ask your dealer to show you a Schoenhut All-Wood Walkable Doll.

Alphie Blocks

The Schoenhut Alphie Blocks are cute, chubby, attractive little creatures, each of which has a separate personality to endear itself to the children's mind. In shape the blocks present the semblance of human figures. They are handsomely lithographed on both sides—one side of the child, the other a happy little animal, each block a different design. A different letter of the alphabet appears on the front and back of each block, so arranged that a half set provides a complete alphabet. They are made of hardwood, 5" high, 2½" wide and about ¾" thick. Flat on the tops, bottoms and sides, they can be used in innumerable ways for building, spelling, ten pins, etc. Several rubber balls come with each set.

Toy Pianos

The Schoenhut Toy Piano has accurate notes. Real tunes can be played upon it. The keys are the same width as on grown-up pianos, so that the child learns to spread her fingers properly. Schoenhut toy pianos are sold in practically all toy dealers and music stores. There are 42 variations of sizes and styles, ranging in price from $1.00 to $40.00 each. They should not be ordered from the factory as it is not practical to ship them by parcel post.

Humpty-Dumpty Circus

Schoenhut's Humpty-Dumpty Circus Toys are universally acknowledged the most amusing unbreakable toys. Clowns, elephants, donkeys, horses and all other animals, animals and people can be made to do the very same tricks that are seen in the "big" circus. The figures are made of wood and wood, fully jointed with strong steel spring hinges. Start a circus with a few pieces and keep adding to it until your "greatest show on earth" is completed. Sold in sets from $1.00 to $20.00 according to the number of pieces. If your dealer cannot supply you, send us his name and we will mail you an illustrated catalog free.

Look for the Name "Schoenhut"

With Schoenhut Toys in all good stores, no mother need put in the hands of her child cheaply constructed toys that break a few days after Christmas. Every Schoenhut part that comes off is one that can be fixed so the child is growing the right. Every Schoenhut Toy means satisfaction to every child who owns one. Look for the name Schoenhut which appears on every genuine package.

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Philadelphia, U. S. A.

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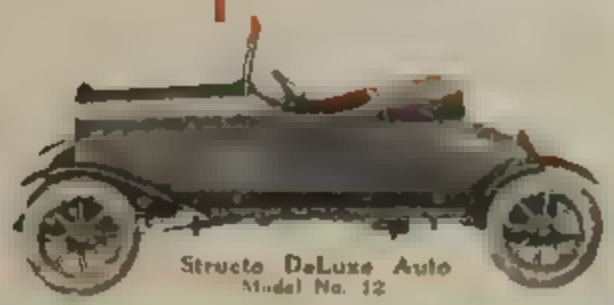

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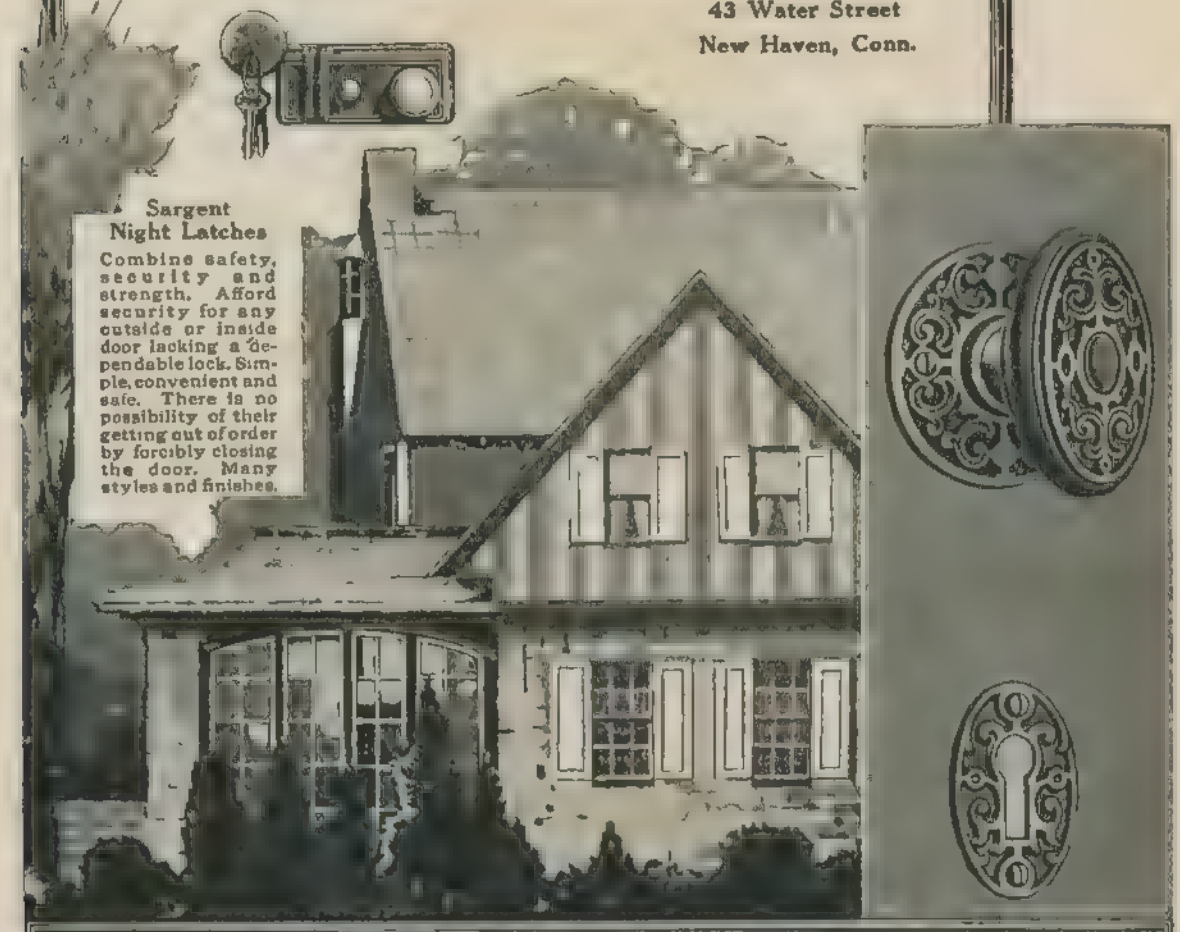

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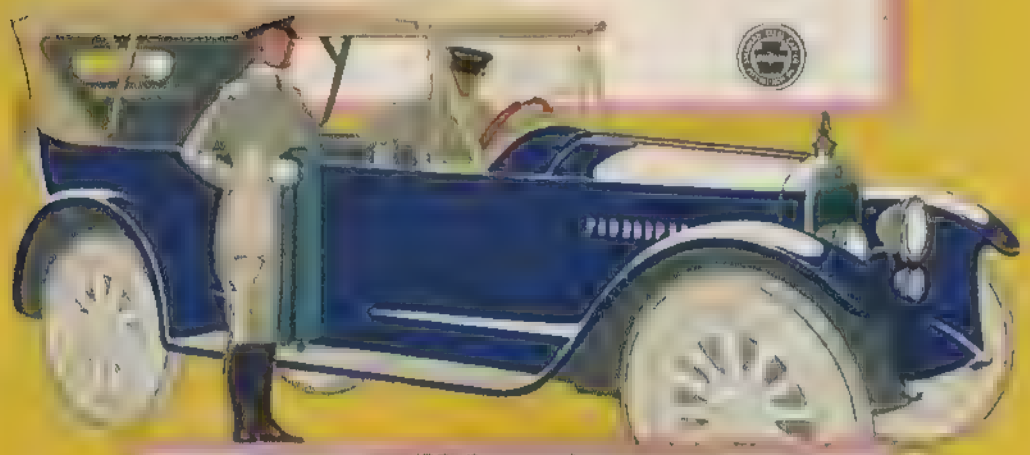
Well-balanced, powerful, and light, with perfect finish and appointments, the Standard Eight is a car which carries pride of ownership under any circumstance.



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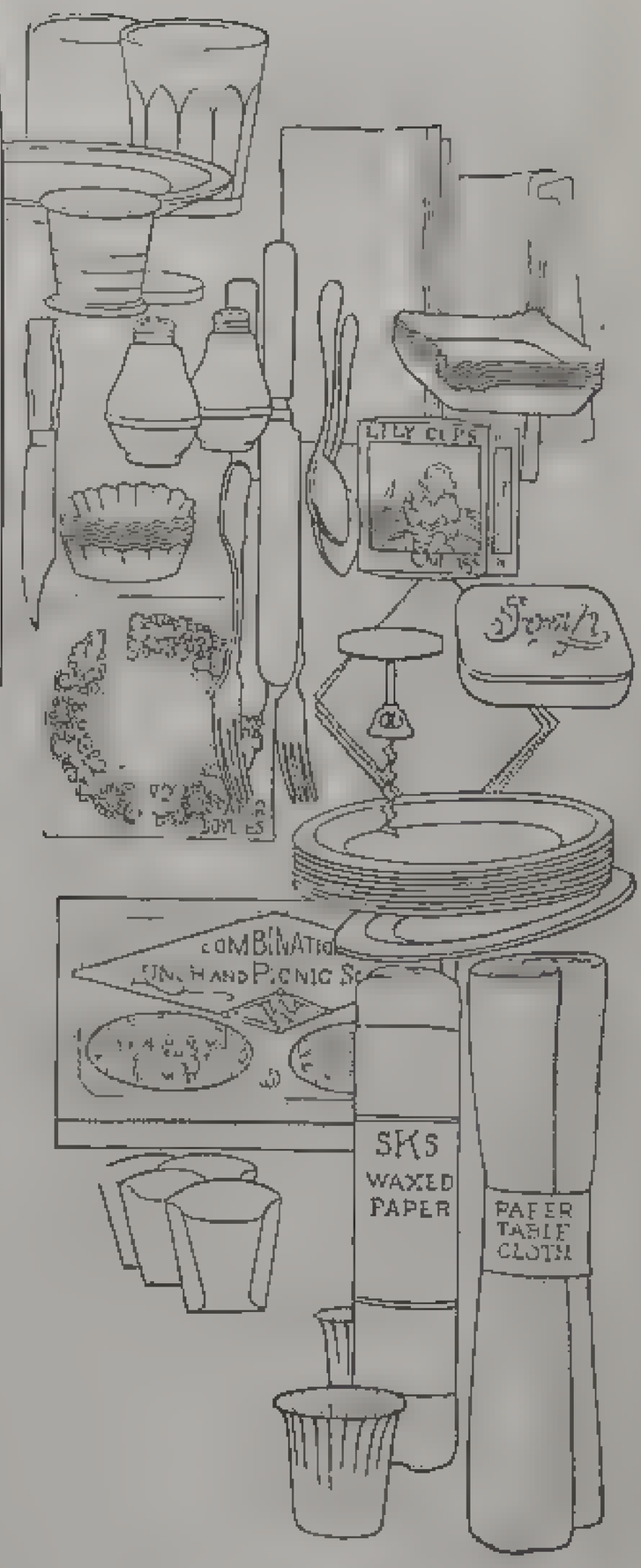

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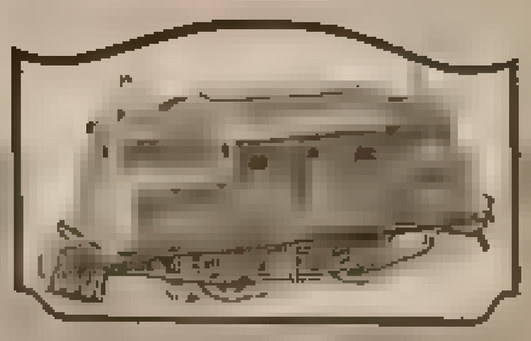

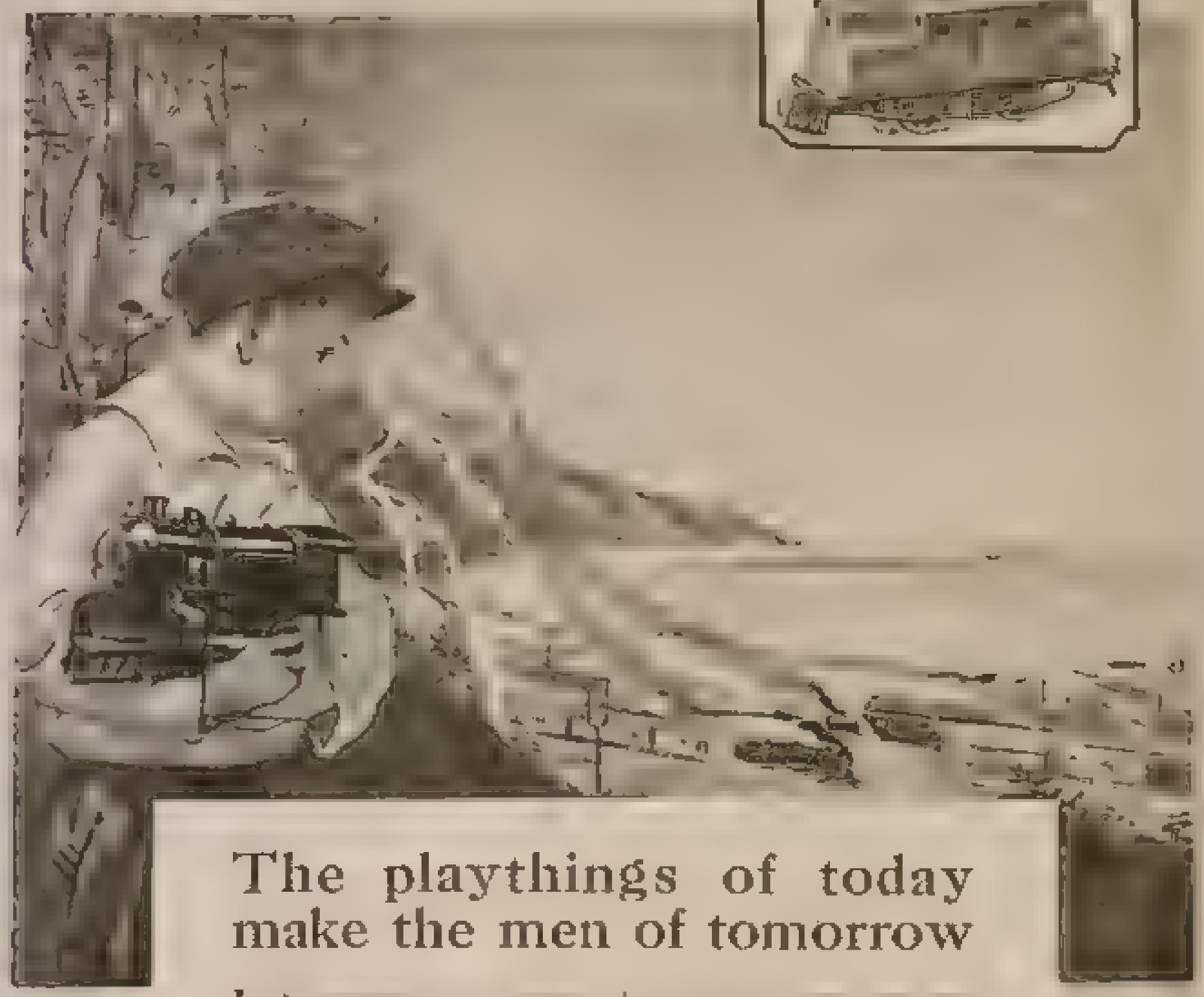

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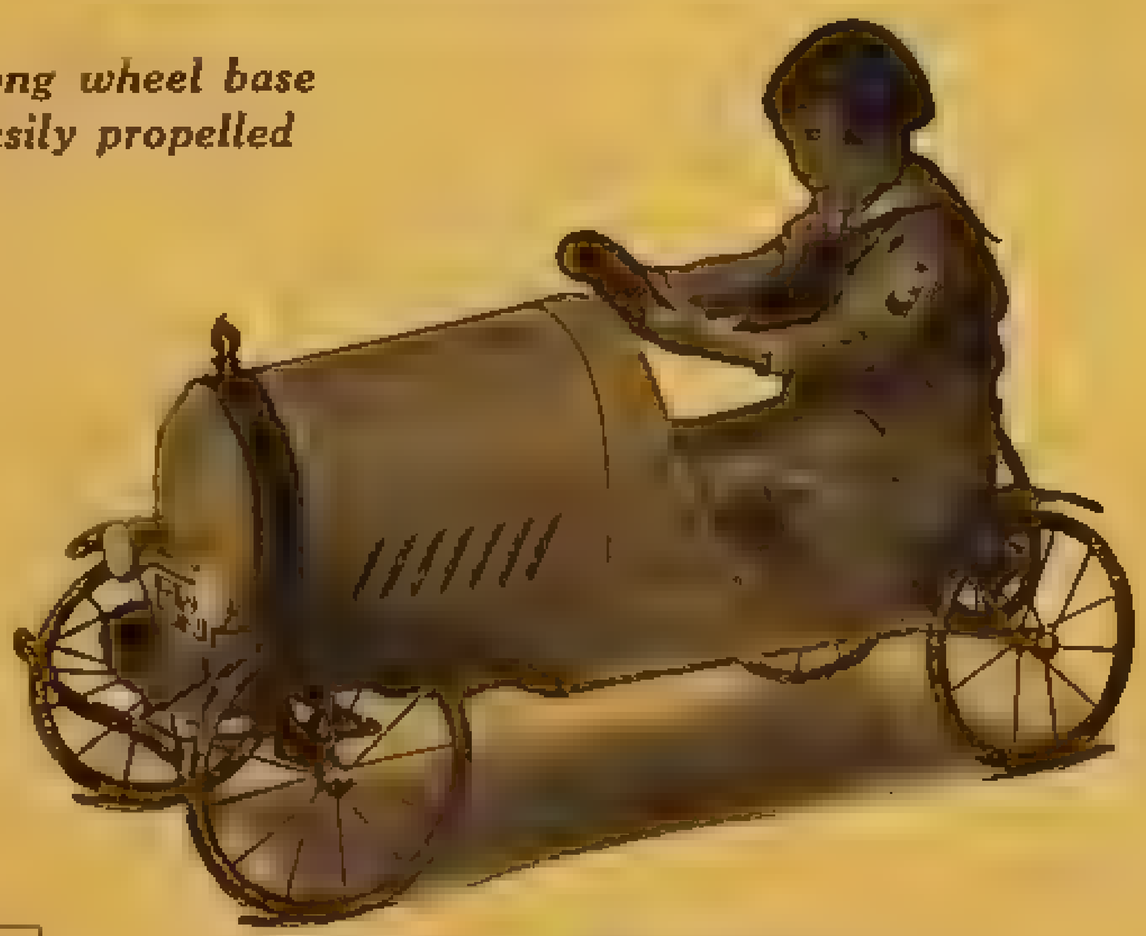

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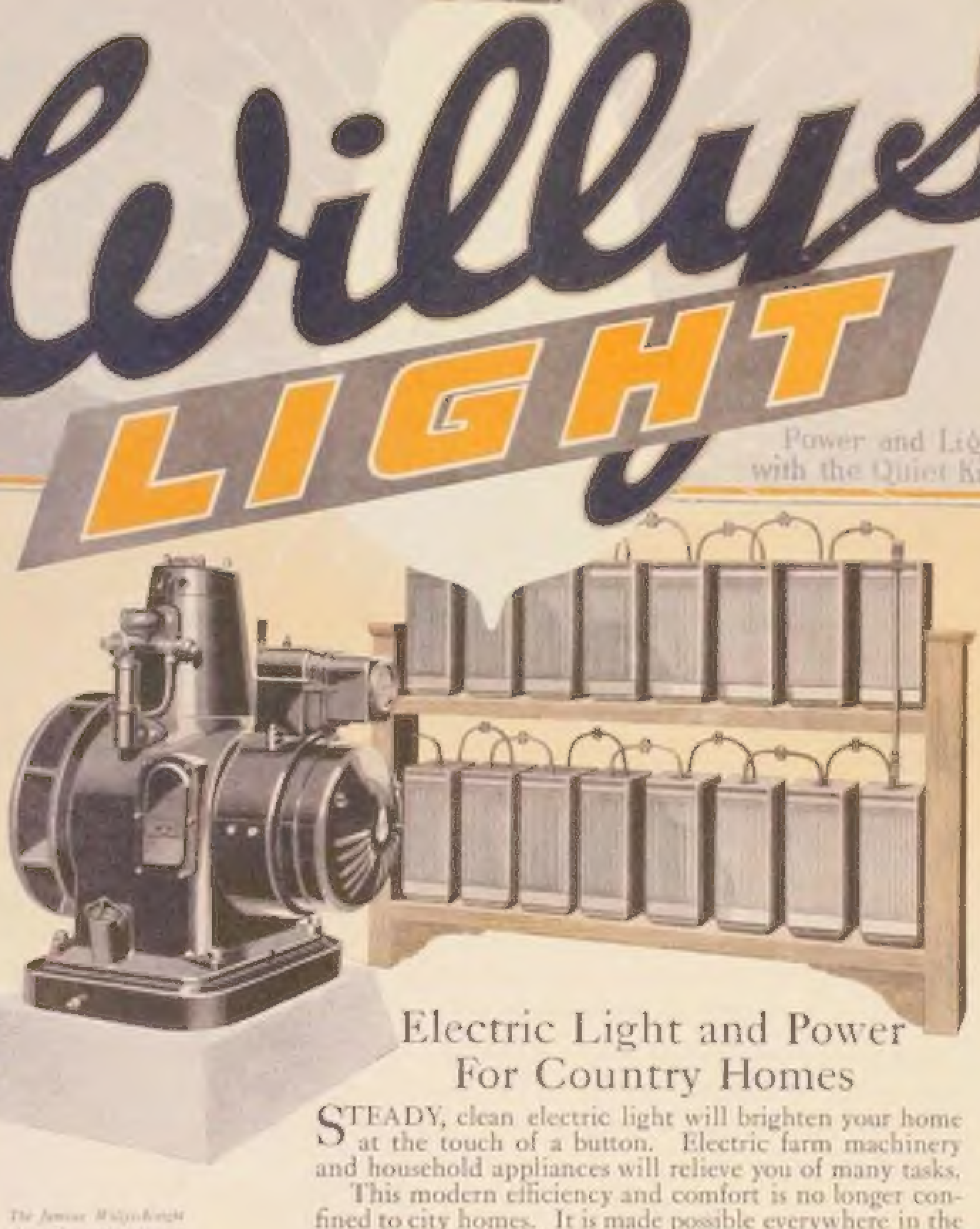

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